

## PREFACE

The first edition of Class Q, *Science*, was published in 1905. Subsequent editions appeared in 1913, 1921, 1948, 1950, 1973, 1989, 1996, 2004, 2007, 2009 and 2012. Annual editions were issued beginning in 2015. This 2021 edition cumulates changes that have been made since the 2020 edition was published.

Classification numbers or spans of numbers that appear in parentheses are formerly valid numbers that are now obsolete. Numbers or spans that appear in angle brackets are optional numbers that have never been used at the Library of Congress but are provided for other libraries that wish to use them. In most cases, a parenthesized or angle-bracketed number is accompanied by a "see" reference directing the user to the actual number that the Library of Congress currently uses, or a note explaining Library of Congress practice.

Access to the online version of the full Library of Congress Classification is available on the World Wide Web by subscription to *Classification Web*. Details about ordering and pricing may be obtained from the Cataloging Distribution Service at:

**<<http://www.loc.gov/cds/>>**

New or revised numbers and captions are added to the LC Classification schedules as a result of development proposals made by the cataloging staff of the Library of Congress and cooperating institutions. Upon approval of these proposals by the editorial meeting of the Policy, Training & Cooperative Programs Division, new classification records are created or existing records are revised in the master classification database. Lists of newly approved or revised classification numbers and captions are posted on the World Wide Web at:

**<<http://www.loc.gov/aba/cataloging/classification/weeklylists/>>**

Libby Dechman, senior cataloging policy specialist in the Policy, Training & Cooperative Programs Division, is responsible for coordinating the overall intellectual and editorial content of class Q. Kent Griffiths, assistant editor of classification schedules, creates new classification records and their associated index terms, and maintains the master database.

Judith P. Cannan, Chief  
Policy, Training & Cooperative Programs Division

June 2021

## OUTLINE

Q1-390	Science (General)
Q1-295	General
Q300-390	Cybernetics
Q350-390	Information theory
QA1-939	Mathematics
QA1-43	General
QA47-59	Tables
QA71-90	Instruments and machines
QA75-76.95	Calculating machines
QA75.5-76.95	Electronic computers. Computer science
QA76.75-76.765	Computer software
QA101-(145)	Elementary mathematics. Arithmetic
QA150-272.5	Algebra
QA273-280	Probabilities. Mathematical statistics
QA299.6-433	Analysis
QA440-699	Geometry. Trigonometry. Topology
QA801-939	Analytic mechanics
QB1-991	Astronomy
QB1-139	General
QB140-237	Practical and spherical astronomy
QB275-343	Geodesy
QB349-421	Theoretical astronomy and celestial mechanics
QB455-456	Astrogeology
QB460-466	Astrophysics
QB468-480	Non-optical methods of astronomy
QB495-903	Descriptive astronomy
QB500.5-785	Solar system
QB799-903	Stars
QB980-991	Cosmogony. Cosmology
QC1-999	Physics
QC 1-75	General
QC81-114	Weights and measures
QC120-168.85	Descriptive and experimental mechanics
QC170-197	Atomic physics. Constitution and properties of matter Including molecular physics, relativity, quantum theory, and solid state physics
QC221-246	Acoustics. Sound
QC251-338.5	Heat
QC310.15-319	Thermodynamics

## OUTLINE

	Physics - Continued
QC350-467	Optics. Light
QC450-467	Spectroscopy
QC474-496.9	Radiation physics (General)
QC501-766	Electricity and magnetism
QC501-(721)	Electricity
QC669-675.8	Electromagnetic theory
QC676-678.6	Radio waves (Theory)
QC701-715.4	Electric discharge
QC717.6-718.8	Plasma physics. Ionized gases
QC750-766	Magnetism
QC770-798	Nuclear and particle physics. Atomic energy.
Radioactivity	
QC793-793.5	Elementary particle physics
QC794.95-798	Radioactivity and radioactive substances
QC801-809	Geophysics. Cosmic physics
QC811-849	Geomagnetism
QC851-999	Meteorology. Climatology
	Including the earth's atmosphere
QC974.5-976	Meteorological optics
QC980-999	Climatology and weather
QC994.95-999	Weather forecasting
QD1-999	Chemistry
QD1-65	General
	Including alchemy
QD71-142	Analytical chemistry
QD146-197	Inorganic chemistry
QD241-441	Organic chemistry
QD415-436	Biochemistry
QD450-801	Physical and theoretical chemistry
QD625-655	Radiation chemistry
QD701-731	Photochemistry
QD901-999	Crystallography
QE1-996.5	Geology
QE1-350.62	General
	Including geographical divisions
QE351-399.2	Mineralogy
QE420-499	Petrology
QE500-639.5	Dynamic and structural geology
QE521-545	Volcanoes and earthquakes
QE601-613.5	Structural geology
QE640-699	Stratigraphy

## OUTLINE

QE701-760	Geology - Continued
QE760.8-899.2	Paleontology
QE901-996.5	Paleozoology
	Paleobotany
QH1-278.5	Natural history (General)
QH1-(199.5)	General
	Including nature conservation, geographical
distribution	
QH201-278.5	Microscopy
QH301-705.5	Biology (General)
QH359-425	Evolution
QH426-470	Genetics
QH471-489	Reproduction
QH501-531	Life
QH540-549.5	Ecology
QH573-671	Cytology
QH705-705.5	Economic biology
QK1-989	Botany
QK1-474.5	General
	Including geographical distribution
QK474.8-495	Spermatophyta. Phanerogams
QK494-494.5	Gymnosperms
QK495	Angiosperms
QK504-(638)	Cryptogams
QK640-(707)	Plant anatomy
QK710-899	Plant physiology
QK900-989	Plant ecology
QL1-991	Zoology
QL1-355	General
	Including geographical distribution
QL360-599.82	Invertebrates
QL461-599.82	Insects
QL605-739.8	Chordates. Vertebrates
QL614-639.8	Fishes
QL640-669.3	Reptiles and amphibians
QL671-699	Birds
QL700-739.8	Mammals
QL750-795	Animal behavior
QL791-795	Stories and anecdotes
QL799-799.5	Morphology

## OUTLINE

QL801-950.9	Zoology - Continued
QL951-991	Anatomy
	Embryology
QM1-695	Human anatomy
QM1-511	General
QM531-549	Regional anatomy
QM550-577.8	Human and comparative histology
QM601-695	Human embryology
QP1-(981)	Physiology
QP1-345	General
	Including influence of the environment
QP351-495	Neurophysiology and neuropsychology
QP501-801	Animal biochemistry
QP(901)-(981)	Experimental pharmacology
QR1-502	Microbiology
QR1-74.5	General
QR75-99.5	Bacteria
QR99.6-99.8	Cyanobacteria
QR100-130	Microbial ecology
QR171	Microorganisms in the animal body
QR180-189.5	Immunology
QR355-502	Virology

## Science (General)

For applied science and technology, see Class T

Periodicals. By language of publication

1.A1  
1.A3-Z  
2  
3  
4  
(9)

Polyglot  
English  
French  
German  
Other languages (not A-Z)

Yearbooks

see Q1+

Collected works (nonserial) see Q111+

Societies

Including works about societies, serial publications of societies

10

International

America

11

United States

21

Canada

22

Latin America

23

Mexico

25

Central America

29

West Indies

33

South America

Europe

41

Great Britain

44

Czechoslovakia

44.2

Hungary

44.4

Austria

46

France

49

Germany

52

Greece

54

Italy

55

Vatican City

56

Belgium

56.2

Luxembourg

57

Netherlands

60

Soviet Union

60.18

Ukraine

60.2

Finland

60.4

Poland

Baltic States

60.6

Estonia

60.7

Latvia

60.8

Lithuania

61

Scandinavia (General)

62

Denmark. Iceland

63

Norway

64

Sweden

65

Spain. Portugal

67

Switzerland

69

Romania

69.2

Yugoslavia

69.3

Slovenia

69.4

Bulgaria

Turkey see Q80.T8

Asia

72

China

72.5

Taiwan

## Societies

## Asia -- Continued

73	India
74	Indochina
75	Indonesia
76	Philippines
77	Japan
80.A-Z	Other regions or countries, A-Z
	e.g.
80.C4	Ceylon. Sri Lanka
80.I67	Iran
80.I7	Israel
80.J67	Jordan
80.K6	Korea
80.P3	Pakistan
80.Q38	Qatar
80.R8	Russia in Asia. Siberia
80.S2	Saudi Arabia
80.S5	Singapore
80.S64	Southeast Asia
	Sri Lanka see Q80.C4
80.S9	Syria
80.T5	Thailand
80.T8	Turkey
82	Arab countries
83	Islamic countries
	Africa
85	South Africa
85.2	Kenya
85.4	Nigeria
85.6	Zimbabwe
85.8	Namibia. South-West Africa
87	Egypt
89	Senegal
89.2	Mauritius
89.5	Sudan
91.A-Z	Other regions or countries, A-Z
91.A47	Algeria
91.A5	Angola
91.B45	Benin
91.B85	Burkina Faso
91.B87	Burundi
91.C17	Cameroon
91.C4	Central Africa
91.C48	Chad
91.C6	Congo (Democratic Republic). Zaire
91.E77	Eswatini
91.E84	Ethiopia
91.G5	Ghana
91.M27	Madagascar
91.M3	Malawi
91.M55	Morocco
91.M6	Mozambique
(91.N28)	Namibia
	see Q85.8
91.S9	Sub-Saharan Africa

- Societies
  - Africa
    - Other regions or countries, A-Z -- Continued
  - (91.S95) Swaziland
    - see Q91.E77
  - 91.T8 Tunisia
  - 91.Z33 Zambia
  - 93 Australia
  - 94 New Zealand
  - 99 Pacific islands
  - 101 Congresses
- Museums. Exhibitions
  - Cf. Q182.4 Science fairs
- 105.A1 General works
- 105.A2-Z By region or country, A-Z
  - Subarrange each country by Table Q5
- Collected works
  - 111 Series of monographs. Serial collections (nonperiodical)
    - For serial publications of universities or other serial publications not issued by societies see Q1+
    - For serial publications of societies see Q10+
  - 113 Collected works of individual authors
- Scientific voyages and expeditions (General)
  - For expeditions of special fields, see the field, e.g. G145+ Geographical exploration; QH11 Naturalists' expeditions; TL799 Flights to special planets; etc.
- 115 General works
- 116 Handbooks for scientific expeditions
- 121 Encyclopedias
- 123 Dictionaries
- 124 Translating services. Translating
  - Cf. T11.5 Technical translating
- History
  - Including science and state
  - 124.6 Periodicals, societies, congresses, serial publications
  - 124.7 Collected works (nonserial)
  - 124.8 Dictionaries and encyclopedias
  - 124.85 Nomenclature, terminology, notation, abbreviations
  - General works see Q125+
  - 124.95 Ancient
  - 124.97 Medieval
  - Modern
    - 125 General works
    - 125.2 Renaissance through 1700
    - 125.4 Outlines, syllabi
    - 125.6 Pictorial works and atlases
    - 126 Popular works
    - 126.4 Juvenile works
    - 126.8 Addresses, essays, lectures
    - 126.9 Study and teaching. Research
  - 127.A-Z By region or country, A-Z
    - e. g.
    - 127.G4 Great Britain
    - 127.G7 Greece
    - 127.2 Developing countries
  - 128 Contributions to science. By religious or ethnic groups



- 130 Women in science. Women scientists  
 For biography see Q141+  
 Cf. HQ1397 Women in science and the arts
- Biography
- 141 Collective
- 143.A-Z Individual, A-Z  
 e.g.
- 143.G4 Galvani, Luigi
- 143.H5 Helmholtz, Hermann von
- 143.P2 Pasteur, Louis
- 143.S8 Swedenborg, Emanuel
- 145 Directories
- Science as a profession. Vocational guidance  
 Cf. Q130 Women in science
- 147 General works
- 148 Employment surveys, manpower requirements, statistics, etc.
- 149.A-Z By region or country, A-Z
- Brain drain
- 150 General works
- 150.2.A-Z By region or country, A-Z
- Early works through 1800  
 Including textbooks
- 151 Ancient
- 153 Medieval
- 155 1500-1700
- 157 1701-1800
- General works and treatises
- 158 1801-1969
- 158.5 1970-
- Textbooks
- Advanced
- 160 1801-1969
- 160.2 1970-
- Elementary
- 161 1801-1969
- 161.2 1970-
- 161.7 Pictorial works and atlases  
 Cf. Q222 Scientific illustration
- 162 Popular works
- 163 Juvenile works
- 164 Recreations, home experiments, etc.  
 Including experiments for children  
 Cf. Q182.3 Science projects
- 167 Anecdotes, facetiae, satire, etc.
- 171 Addresses, essays, lectures
- 172 Special aspects of the subject as a whole
- 172.5.A-Z Special topics, A-Z
- 172.5.C45 Chaotic behavior in systems  
 Including pattern formation  
 Cf. QC174.17.C45 Quantum theory
- 172.5.C74 Creative ability in science
- 172.5.E77 Errors
- (172.5.F7) Fraud  
 see Q175.37
- 172.5.H47 Heresy in science
- 172.5.I5 International cooperation

- Special topics, A-Z -- Continued
- 172.5.M87 Music  
Parapsychology and science see BF1045.S33  
Pattern formation see Q172.5.C45
- 172.5.P65 Popular culture
- 172.5.P77 Pseudoscience
- 172.5.P82 Public opinion
- 172.5.S34 Science indicators
- 172.5.S47 Serendipity in science
- 172.5.S95 Symmetry
- 172.5.S96 Synchronization
- 172.5.V37 Variational principles  
Cf. QC174.17.V35 Quantum theory
- 173 Miscellany and curiosa  
Philosophy. Methodology  
Cf. B67 Philosophy in relation to science  
Cf. BF1275.S3 Spiritualism and science  
Cf. BJ57 Ethics and science  
Cf. BL239+ Religion and science  
Cf. BT590.S4 Christ and science
- 174 Periodicals, societies, congresses, serial publications
- 174.6 Collected works (nonserial)
- 174.7 Dictionaries and encyclopedias
- 174.8 History
- 175 General works, treatises, and advanced textbooks
- 175.2 Juvenile works
- 175.3 Addresses, essays, lectures
- 175.32.A-Z Special topics, A-Z
- 175.32.A24 Abduction (Logic)
- 175.32.A47 Aesthetics
- 175.32.C38 Causation
- 175.32.C65 Complexity (Philosophy)
- 175.32.C66 Computer models see Q175.32.S5
- 175.32.D52 Constructive realism
- 175.32.D53 Dialectical materialism
- 175.32.D96 Dialogue
- 175.32.E44 Dynamics
- 175.32.E85 Emergence (Philosophy)
- 175.32.E97 Epistemology, Virtue see Q175.32.V57
- 175.32.H95 Evolution
- 175.32.I34 Explanation
- 175.32.I54 Hylomorphism
- 175.32.I58 Idéologues (French philosophers)
- 175.32.K45 Inference
- 175.32.M38 Intellectual freedom
- 175.32.M43 Knowledge, Theory of
- 175.32.N38 Laws of nature see Q175.32.P39
- 175.32.N68 Logic see Q175.32.R45
- 175.32.O27 Mathematical models. Mathematics
- 175.32.O58 Meaning (Philosophy)
- 175.32.P37 Naturalism
- Nothing (Philosophy)
- Observation
- Ontology  
Cf. Q387.4 Ontologies in information theory
- Paradox

- Philosophy. Methodology
  - Special topics, A-Z -- Continued
    - 175.32.P39 Physical laws of science. Laws of nature
    - 175.32.R42 Realism
    - 175.32.R45 Reasoning. Logic
    - 175.32.R47 Reductionism
    - 175.32.S5 Simulation. Computer models
      - Class here works on philosophical and methodological aspects of simulation and computer modeling in science
      - For works on the mathematics of computer simulation see QA76.9.C65
  - 175.32.S78 Structuralism
  - 175.32.S83 Subjectivity
  - 175.32.T56 Time
  - 175.32.T78 Truth
  - 175.32.V35 Values
  - 175.32.V57 Virtue epistemology
  - 175.32.V65 Vitalism
- Scientific ethics
  - Cf. Q180.55.M67 Moral and ethical aspects of research
- 175.35 General works, treatises, and textbooks
- 175.37 Fraud
- Social aspects
  - Class here works that discuss the impact of science on modern society and the sociology of science.
  - For works on the role of science in the history and development of civilization see CB478
- 175.4 Periodicals, societies, congresses, serial publications
- 175.46 History
- 175.5 General works, treatises, and textbooks
- 175.52.A-Z By region or country, A-Z
- 175.54 Developing countries
- 175.55 Addresses, essays, lectures
- 176 Periodicity. Cycles
- 177 Classification of the sciences
  - Cf. BD239.2+ Speculative philosophy
- 179 Nomenclature, terminology, notation, abbreviations
- Research
  - 179.9 Periodicals, societies, congresses, serial publications
  - 179.92 Collected works (nonserial)
  - Communication of information
    - 179.94 General works
    - 179.96 Information services
    - 179.97 Computer network resources
      - Including the Internet
  - 179.98 Directories
- 180.A1 General works, treatises, and advanced textbooks
- History
  - 180.A3 General works
  - 180.A5-Z By region or country, A-Z
  - 180.2 Juvenile works
  - 180.3 Handbooks, tables, formulas, etc.
  - 180.4 Anecdotes, facetiae, satire, etc.
  - 180.5 Addresses, essays, lectures
  - 180.55.A-Z Special topics, A-Z
    - Prefer classification by country
  - 180.55.A83 Audiovisual aids
  - 180.55.C54 Citizen participation

- Research
- Special topics, A-Z -- Continued
- 180.55.C55 Classification
- 180.55.C6 Cost
- 180.55.D57 Discoveries
- 180.55.E25 Econometric models see Q180.55.E25
- Economic aspects
- Including econometric models
- For works on the impact of research on the economy see HC79.R4
- 180.55.E4 Electronic data processing
- 180.55.E58 Environmental aspects
- 180.55.E65 Equipment and supplies
- 180.55.E9 Evaluation
- 180.55.F5 Finance
- 180.55.G6 Government support
- 180.55.G7 Private grants. Foundations. Endowments
- 180.55.G77 Group work
- 180.55.I45 Information technology
- 180.55.I48 Interdisciplinary research
- International cooperation see Q172.5.I5
- 180.55.M3 Management
- 180.55.M38 Mathematical models
- 180.55.M4 Methodology
- 180.55.M67 Moral and ethical aspects
- 180.55.P7 Proposal writing
- 180.55.P75 Psychological aspects
- 180.55.Q36 Quantitative research
- 180.55.R43 Reduced gravity environments
- 180.55.S62 Social aspects
- 180.55.S7 Statistical methods
- 180.55.V6 Vocational guidance
- Laboratories
- 180.56 General works
- 180.57 Management
- 180.58 Records. Laboratory notebooks
- 180.6.A-Z By region or country, A-Z
- Subarrange each country by Table Q6
- 180.7 Astronautics in science
- Cf. TL798.S3 Scientific satellites
- Study and teaching
- Class here works on the study and teaching of general science at all levels or at the secondary level and higher.
- For works on the study and teaching of general science in elementary schools or in both elementary and secondary schools see LB1585+
- For programmed texts see Q160+
- Cf. Q190+ Audiovisual aids in science teaching
- 181.A1 Periodicals, societies, congresses, serial publications
- 181.A2-Z General works, treatises, and textbooks
- 181.3 Addresses, essays, lectures
- 181.5 Outlines, syllabi
- 182 Problems, exercises, examinations
- 182.3 Experiments
- Including science projects
- Cf. Q164 Recreations, home experiments, etc.
- 182.4 Science fairs
- 182.5 Laboratory manuals

- Study and teaching -- Continued
- 182.6 Competency-based education
- 182.7 Electronic information resources
  - Including computer network resources, the Internet, digital libraries, etc.
- Laboratories
- 183.A1 General works
- 183.A3-Z By region or country, A-Z
  - Subarrange each country by Table Q6
- By region or country
- United States
- 183.3.A1 General works
- 183.3.A2-Z By region or state, A-Z
  - Subarrange each state by Table Q7
- 183.4.A-Z Other regions or countries, A-Z
  - Subarrange each country by Table Q7
- 183.9 Data processing
- Instruments and apparatus (General)
- 184 Periodicals, societies, congresses, serial publications
- 184.5 Dictionaries and encyclopedias
- 185 General works, treatises, and textbooks
- 185.3 Juvenile works
- 185.7 Catalogs
- Audiovisual aids in science teaching
- 190 General works, treatises, and textbooks
- 192 Films. Motion pictures
- 194 Radio
- 196 Television
- 197 Other (not A-Z)
- 199 Handbooks, tables, formulas, etc.
- 209 Science readers in English
- Science readers for the study of foreign languages
  - see PA-PM
- (211) Science readers in French
  - see PC2127.S4
- (213) Science readers in German
  - see PF3127.S3
- (215) Science readers in Italian
  - see PC1127.S3
- (219) Science readers in other languages, see PA-PM
- 222 Scientific illustration
  - Cf. T11.8 Technical illustration
- Communication in science
  - Cf. Q124 Translating services. Translating
  - Cf. R118+ Communication in medicine
  - Cf. T10.5+ Communication of technical information
- 223 General works
- Information services
  - Including information centers
- 223.2 Periodicals, societies, congresses, serial publications
- 223.5 Directories
- 224 General works
- 224.3.A-Z By region or country, A-Z
  - Subarrange each country by Table Q5
- 224.5 Electronic information resources
  - Including computer network resources, the Internet, digital libraries
- Science news. Science and the public

- Communication in science
  - Science news. Science and the public -- Continued
    - 225 General works
      - 225.2.A-Z By region or country, A-Z
    - 225.5 Scientific literature
    - 226 Scientific language
      - Cf. T11+ Scientific writing
  - 227 Science secretaries. Scientific correspondence
  - 295 System theory
    - Cf. T57.6+ Operations research. Systems analysis
    - Cf. TA168 Systems engineering
  - Cybernetics
    - Cf. QA75+ Computer science
    - Cf. QA267+ Machine theory
    - Cf. QA402.3+ Control theory (Mathematics)
    - Cf. QP351+ Nervous system and the senses
    - Cf. TJ212+ Control engineering
    - Cf. TK7885+ Computer engineering
  - 300 Periodicals, societies, congresses, serial publications
  - 303 Collected works (nonserial)
  - 304 Dictionaries and encyclopedias
  - 305 History
  - 310 General works, treatises, and textbooks
  - 315 Popular works
  - 315.5 Addresses, essays, lectures
  - 316 Study and teaching. Research
  - Bionics
    - 317 Periodicals, societies, congresses, serial publications
    - 317.5 Collected works (nonserial)
    - 320 General works, treatises, and textbooks
    - 320.5 Juvenile works
    - 321 Addresses, essays, lectures
  - Self-organizing systems. Conscious automata
    - 325 General works
      - Machine learning
        - 325.5 General works
        - 325.6 Reinforcement learning
        - 325.7 Computational learning theory
        - 325.75 Supervised learning
        - 325.78 Back propagation
        - 325.785 Support vector machines
        - 325.787 Transfer learning
      - 327 Perceptron theory
        - Cf. TK7882.P3 Pattern recognition systems
    - Artificial intelligence
      - 334 Periodicals, societies, congresses, serial publications
      - 334.2 Dictionaries and encyclopedias
      - 334.5 Collected works (nonserial)
      - 334.7 Philosophy
        - Including moral and ethical aspects
    - 335 General works, treatises, and textbooks
    - 335.4 Juvenile works
    - 335.5 Addresses, essays, lectures
    - 335.7 Study and teaching. Research
    - 336 Data processing
    - Distributed artificial intelligence

## Cybernetics

Self-organizing systems. Conscious automata

Artificial intelligence

Distributed artificial intelligence -- Continued

337

General works

337.3

Swarm intelligence

337.5

Pattern recognition systems

338

Truth maintenance systems

338.8

Case-based reasoning

338.85

Commonsense reasoning

339

Default reasoning

339.19

Model-based reasoning

339.2

Nonmonotonic reasoning

339.25

Qualitative reasoning

340

Constraints

341

Turing test

342

Computational intelligence

343

Virtual humans

For works on virtual humans applied to a specific field, see the field

## Information theory

Cf. P87+ Communication

Cf. QA268 Coding theory (Mathematics)

Cf. TK5101+ Telecommunication (General)

Cf. ZA3038+ Information resources

350

Periodicals, societies, congresses, serial publications

352

Dictionaries and encyclopedias

355

History

360

General works, treatises, and textbooks

365

Popular works

367

Addresses, essays, lectures

370

Measurements. Tables, calculations, etc.

375

Uncertainty theory

380

Noise

385

Rate distortion theory

386

Statistical methods

Knowledge representation

387

General works

387.2

Conceptual structures

387.3

Description logics

387.4

Ontologies

Cf. Q175.32.O58 Ontology in the philosophy of science

387.5

Semantic networks

390

Frames

(500-510)

Operations research

see T57.6+

## Mathematics

- 1 Periodicals, societies, congresses, serial publications
- 3 Collected works (nonserial)
- 5 Dictionaries and encyclopedias
- 7 Addresses, essays, lectures
- Philosophy
  - Cf. QA9.615 Recursive functions. Recursive arithmetic
  - Cf. QA248+ Foundations of arithmetic. Set theory
  - Cf. QA267+ Machine theory
  - Cf. QA681 Foundations of geometry
- 8 Periodicals, societies, congresses, serial publications
- 8.4 General works, treatises, and textbooks
- 8.6 Addresses, essays, lectures
- 8.7 Study and teaching. Research
- Mathematical logic
  - 9.A1 Periodicals, societies, congresses, serial publications
  - 9.A5-Z General works, treatises, and textbooks
  - 9.2 Addresses, essays, lectures
  - Study and teaching. Research see QA8.7
  - Classical logical systems
    - Including reverse mathematics
  - 9.25 General works
  - 9.3 Propositional calculus
  - 9.35 Predicate calculus
  - 9.37 Infinitary languages
  - Nonclassical formal systems
    - 9.4 General works
    - 9.45 Many-valued logic
    - 9.46 Modal logic
      - Cf. BC199.M6 Logic
    - 9.47 Intuitionistic mathematics
    - 9.5 Combinatory logic and lambda calculus
    - 9.54 Proof systems
    - Constructive mathematics
      - 9.56 General works
      - 9.58 Algorithms
      - 9.59 Computable functions. Computability theory
    - Recursion theory
      - Cf. QA267+ Machine theory
  - 9.6 General works
  - 9.615 Recursive functions. Recursive arithmetic
  - 9.62 Hierarchies
  - 9.63 Unsolvability
  - 9.64 Fuzzy logic
  - Methodology of deductive systems
    - 9.65 Decidability. Gödel's theorem. Gödel numbers
    - 9.67 Completeness
  - 9.7 Model theory
  - 9.8 Metamathematics
  - 9.9 Matrix logic
  - Algebraic logic
    - 10 General works
    - 10.3 Boolean algebra
      - Cf. QA268.5 Switching theory
    - 10.35 Quantum logic
  - 10.4 Information theory in mathematics



- 10.5 Mathematics as a profession. Vocational guidance
- 10.7 Social aspects
- 10.8 War and mathematics
- Study and teaching. Research
  - For computer-assisted instruction in mathematics see QA20.C65
  - For use of electronic computers in mathematics see QA76.95
  - Cf. QA135+ Elementary mathematics
- 11.A1 Periodicals, societies, congresses, serial publications
- General works, treatises, and textbooks
  - To 2000
  - 2001-
- 11.2
- 11.5 Computer network resources
  - Including the Internet
- 12 Addresses, essays, lectures
- By region or country
  - United States
    - General works
    - By region or state, A-Z
      - Subarrange each state by Table Q7
  - Other regions or countries, A-Z
    - Subarrange each country by Table Q7
- Special teaching methods and aids
- 16 General works
- Audiovisual aids
  - General works, treatises, and textbooks
  - Special types, A-Z
    - Art
    - Blocks (Toys)
    - Bulletin boards
    - Charts, diagrams, etc.
    - Cuisenaire rods
    - Literature
    - Manipulatives
    - Motion pictures
    - Music
    - Overhead projectors
    - Paper work
      - Including folding, cutting, etc.
    - Picture books
    - Television
  - Other methods, A-Z
    - Authorship see QA20.M38
    - Calculators
    - Computer-assisted instruction
      - Including computer-based experiments
    - Electronic spreadsheets
    - Forums (Discussion and debate)
    - Games
    - Gesture
    - Group guidance
    - Hieroglyphics
    - Individualized instruction
    - Intervention, Response to see QA20.R47
    - Magic tricks
    - Mathematical writing. Authorship
    - Mobile communication systems
- 18
- 19.A-Z
- 19.A78
- 19.B55
- 19.B8
- 19.C45
- 19.C8
- 19.L58
- 19.M34
- 19.M6
- 19.M87
- 19.O9
- 19.P34
- 19.P53
- 19.T4
- 20.A-Z
- 20.C34
- 20.C65
- 20.E43
- 20.F67
- 20.G35
- 20.G47
- 20.G76
- 20.H54
- 20.I53
- 20.M33
- 20.M38
- 20.M63

- Study and teaching. Research
  - Special teaching methods and aids
    - Other methods, A-Z -- Continued
  - Physical education
  - Portfolios
  - Programmed instruction
    - For programmed texts, see QA36.5+ QA101+
  - Project method
  - Reading comprehension
  - Response to intervention
  - Teaching teams
  - Unit method of teaching
  - Web-based instruction
  - Whole brain learning
- Awards, prizes, etc. Competitions
- History
  - General
  - Ancient
  - Medieval
  - Modern
    - General see QA21
    - 16th-18th centuries
    - 19th-20th centuries
  - By region or country, A-Z
- Women in mathematics. Women mathematicians
  - For biography see QA28+
- Biography
  - Collective
  - Individual, A-Z
    - e.g.
    - Gauss
    - Jacobi
    - Napier
- Directories
- Early works through 1800
  - Egyptian
  - Greek
    - Including translations and commentaries
    - For Euclid's Elements for use in schools see QA451
  - Medieval
    - 1501-1700
    - 1701-1800
- General works
  - Comprehensive treatises
  - Textbooks
    - Series of textbooks
    - Advanced
      - 1801-1969
      - 1970-2000
      - 2001-
        - Intermediate (without calculus)
          - 1801-1969
          - 1970-2000
          - 2001-
            - Elementary see QA101+
  - Handbooks, manuals, etc.

- Popular works see QA93
- 40.5 Juvenile works
- 41 Formulas, notation, abbreviations
- 41.3 Nomenclature, terminology
- Communication of mathematical information
- 41.4 General works
- 41.5 Information services
- 41.6 Computer network resources
  - Including the Internet
- 41.7 Mathematical literature
- 42 Language. Authorship
  - Cf. QA20.M38 Mathematical writing in mathematics study and teaching
- 43 Problems, exercises, examinations
- Tables
  - Cf. QA281 Interpolation. Extrapolation
- 47 General tables
- 49 Multiplication tables
  - Including squares and cubes, square roots and cube roots, reciprocals
- 51 Factor tables
- Logarithms. Tables of mathematical functions
  - Including trigonometric, hyperbolic, etc.
- 55 General works
- 59 Theory and use of logarithms
- 63 Problem solving
- Instruments and machines
  - Including practical mathematics, graphical and numerical calculating
- 71 General works, treatises, and textbooks
- 73 Slide rules
- 74 Computation laboratories
- Calculating machines
  - For works on the use of calculators in mathematic instruction see QA20.C34
- 75 General works
- Electronic computers. Computer science
  - Including electronic data processing and computer systems
  - For applications in special fields, see the field, e.g. QD39.3.E46, Electronic data processing in chemistry
  - Cf. QA267+ Machine theory
  - Cf. TK7885+ Computer engineering
- 75.5 Periodicals, societies, congresses, serial publications
- 76 General works, treatises, and textbooks
- 76.15 Dictionaries and encyclopedias
- Communication of computer science information
- 76.16 General works
- 76.162 Information services
- 76.165 Language. Authorship
- 76.167 Philosophy
- 76.17 History
- Biography
  - Collective
  - Individual, A-Z
- 76.2.A2 Directories
- 76.2.A3-Z Juvenile works
- 76.215 Addresses, essays, lectures
- 76.23 Computer science as a profession. Vocational guidance
- 76.24 Study and teaching. Research
- 76.27 General works

## Instruments and machines

## Calculating machines

## Electronic computers. Computer science

## Study and teaching. Research -- Continued

76.28

Problems, exercises, examinations

76.3

Certification of electronic data processing personnel

Class here works on certification in general

For works on certification on special topic, prefer classification with the special topic, e.g.,

QA76.73.J38 Study guide for Java certification

76.33

Computer camps

## Laboratories

76.35

General works

76.36.A-Z

Individual laboratories, A-Z

76.38

Hybrid computers

76.4

Analog computers

## Digital computers

76.5

General works

76.52

Juvenile works

76.525

Microcomputer workstations

76.527

Network computers

For works on computer network management see TK5105.548+

## Computer scheduling

76.529

General works

76.5295.A-Z

Special topics, A-Z

76.5295.A34

Affinity scheduling

76.5295.P37

Parallel scheduling

76.53

Time-sharing data processing

Real-time data processing

76.54

General works

76.545

Transaction systems

## Online data processing

Including general online information services and general videotex systems

76.55

General works

76.57.A-Z

Special systems, A-Z

76.57.A43

America Online

76.57.A77

AT&amp;T WorldNet

76.57.C65

CompuServe

76.57.D44

DELPHI

76.57.E88

eWorld (Online service)

76.57.G45

GENie (Videotex system)

76.57.G48

GNN

76.57.M52

Microsoft Network

76.57.M55

Minitel

76.57.P75

Prodigy (Online service)

76.57.P77

ProfNet

76.57.S68

SOURCE (Videotex system)

76.57.T44

TELETEL (Videotex system)

76.57.U43

UMI Online (Videotex system)

76.575

Multimedia systems

Cf. QA76.76.I59 Interactive multimedia

76.58

Parallel processing. Parallel computers

76.583

Edge computing

76.585

Cloud computing

76.59

Mobile computing

76.5913

Semantic computing

76.5915

Ubiquitous computing

## Instruments and machines

## Calculating machines

## Electronic computers. Computer science

## Digital computers -- Continued

76.592

## Wearable computers

## Programming

For computer programs and other software see QA76.75+

76.6

## General works

76.6115

## Juvenile works

76.612

## Constraint programming

76.615

## Declarative programming

76.618

## Evolutionary programming

76.62

## Functional programming

Including functional programming languages

76.623

## Genetic programming

76.624

## Generative programming

76.6245

## Generic programming

76.625

## Internet programming. Intranet programming

76.63

## Logic programming

76.635

## Microprogramming

76.637

## Modular programming

76.64

## Object-oriented programming and programs

Including OPEN method

76.642

## Parallel programming

76.65

## Visual programming

76.66

## Systems programming

## Programming languages

76.7

## General works

76.73.A-Z

## Individual languages, A-Z

Some entries in the following list appear to be out of alphabetical order because filing rules for initialisms and acronyms changed in 1981. This list is incomplete. Beginning in 2013 entries are printed for new programming languages. Generally create Cutters for new entries after .x25 using current filing rules.

76.73.A12

## ABAP

76.73.A24

## ALGOL

76.73.A27

## APL

76.73.A35

## Ada

76.73.A67

## AppleScript

76.73.A8

## Assembly languages. Assemblers

Class here general works on Assembly languages and assemblers, including works on assembling

For works on a specific assembly language, see the language, e.g., for X86 assembly language see QA76.73.X16

76.73.A84

## AutoLISP

76.73.A95

## AWK

76.73.B155

## B

76.73.B3

## BASIC

76.73.B78

## BSV 753

76.73.C15

## C

76.73.C153

## C++

76.73.C154

## C#

76.73.C25

## COBOL

76.73.C56

## Clipper

76.73.C58

## CoffeeScript

76.73.C75

## CSP

76.73.C87

## Curl

## Instruments and machines

## Calculating machines

## Electronic computers. Computer science

## Digital computers

## Programming languages

## Individual languages, A-Z -- Continued

76.73.D138	D
76.73.D14	D*
76.73.D23	Dart
76.73.D25	DRL
76.73.D95	Dylan
76.73.E27	EasyLanguage
76.73.E38	ELAN
76.73.E75	ERLANG
76.73.F16	F
76.73.F23	FOCUS
76.73.F25	FORTRAN
76.73.F74	FRED
76.73.G25	GW-BASIC
76.73.G63	Go
76.73.H37	Haskell
76.73.H57	Hopscotch
76.73.H6	HP-GL/2
76.73.H96	HyperTalk
76.73.I22	INFORMIX-4GL
76.73.J2	J#
76.73.J38	Java
76.73.J39	JavaScript
76.73.J63	Job Control Language
76.73.J7	JR
76.73.J85	Julia
76.73.K63	Kodu
76.73.K67	KornShell
76.73.L23	LISP
76.73.L62	LogiQL
76.73.L63	LOGO
76.73.L66	LotusScript
76.73.L82	Lua
76.73.M15	M
76.73.M29	Mathematica
76.73.M35	Maude
76.73.M39	MDX
76.73.M53	Microsoft Visual Basic
	Including Microsoft Visual Basic for applications
76.73.M6	ML
	MySQL see QA76.73.S67
76.73.N39	NCL
76.73.O115	Objective-C
76.73.O213	OpenCL
76.73.P224	PHP
76.73.P25	PL/1
76.73.P32	packetC
76.73.P67	PostScript
	Class here works on designing or writing compilers for PostScript
	For works on using PostScript to control the page appearance of paper documents, see
	Z52.5 or Z250.8.P68

## Instruments and machines

## Calculating machines

## Electronic computers. Computer science

## Digital computers

## Programming languages

## Individual languages, A-Z -- Continued

76.73.P75 PowerShell see QA76.73.W56  
 76.73.P76 Processing  
 76.73.P79 Prolog  
 76.73.P98 Pseudocode  
 76.73.R25 Python  
 76.73.R3 RPG  
 76.73.R33 R (Computer program language)  
 76.73.R33 Racket  
 76.73.R83 Ruby  
 76.73.R87 Rust  
 76.73.S15 S  
 76.73.S27 SAS (Computer program language)  
 76.73.S28 Scala  
 76.73.S34 Scheme  
 76.73.S345 Scratch  
 76.73.S35 SDL  
 76.73.S59 SPARK  
 76.73.S62 SPARQL  
 76.73.S67 SQL. MySQL  
 76.73.S95 Swift  
 76.73.T44 Tcl  
 76.73.T97 TypeScript  
 76.73.U63 UPC  
 76.73.V27 VBScript  
 76.73.W56 Visual Basic see QA76.73.M53  
 76.73.W65 Windows PowerShell  
 76.73.X16 Wolfram language  
 76.73.X57 X86 assembly language  
 76.73.X57 XPath  
 76.73.X575 XQuery  
 76.73.X58 XSLT  
 76.73.Z2 Z

## Computer software

For individual programs, see the type of program, e.g. QA76.76.T49 Text editors

For application programs, see the field, e.g. HF5548.4.L67 Lotus 1-2-3

76.75 Periodicals. Societies. Serials  
 76.751 Congresses  
 76.752 Dictionaries  
 76.753 Catalogs  
 76.754 General works  
 76.755 Handbooks, tables, etc.  
 76.756 Addresses, essays, lectures  
 76.758 Software engineering  
     Including software reengineering  
 76.76.A-Z Special topics, A-Z  
 76.76.A54 AngularJS  
 76.76.A63 Application program interfaces  
 76.76.A65 Application software  
     Including composite applications

## Instruments and machines

## Calculating machines

## Electronic computers. Computer science

## Computer software

## Special topics, A-Z -- Continued

(76.76.A87)

Assemblers

See QA76.73.A8, Assembly languages. Assemblers see QA76.73.A8

76.76.A98

Automatic differentiations

76.76.C47

Certification of software

76.76.C54

Children's software

76.76.C64

Compatibility of software

76.76.C65

Compilers

Including compilers of individual computer programming languages

76.76.C66

Component software

Composite applications see QA76.76.A65

76.76.C672

Computer games

Class here works on programming computer games

For general works on computer games as well as works on specific computer games and actual software see GV1469.15+

76.76.C68

Computer viruses

76.76.C69

Configuration management

76.76.C73

Costs

76.76.D47

Development

76.76.D49

Device drivers

Including individual device drivers

76.76.D57

Disassemblers

Including decompilers

76.76.D63

Documentation of software

Ecosystems, Software see QA76.76.S62

76.76.E93

Evaluation of software

76.76.E95

Expert systems

76.76.F34

Failures of software

File conversion software see QA76.9.F48

Frameworks see QA76.76.S63

76.76.F75

Free computer software

Cf. QA76.76.O62 Open source software

76.76.G46

Generators

76.76.H85

Human factors

(76.76.H92)

Hypermedia systems

see QA76.76.I59

76.76.H94

Hypertext systems

Including hypertext document markup languages, e. g. HTML (Document markup language), XML (Document markup language), etc.

76.76.I55

Install programs

76.76.I57

Integrated software

76.76.I58

Intelligent agents

76.76.I59

Interactive media. Hypermedia

Cf. QA76.575 Multimedia systems

Measurement, Software see QA76.76.S65

76.76.M52

Microsoft .NET Framework

76.76.M54

Middleware

Including object monitors

Object-oriented programs see QA76.64

76.76.O62

Open source software

(76.76.O63)

Operating systems

see QA76.77+



## Instruments and machines

## Calculating machines

## Electronic computers. Computer science

## Computer software

## Special topics, A-Z -- Continued

- 76.76.P37 Patterns, Software
- 76.76.P74 Productivity
- 76.76.P76 Protection of software
- 76.76.P77 Prototyping
- 76.76.Q35 Quality control
- 76.76.R42 Refactoring of software
- 76.76.R44 Reliability
- 76.76.R47 Reusability
- 76.76.S27 SAP NetWeaver Gateway
- 76.76.S37 Screen savers
- 76.76.S375 Self-adaptive software
- 76.76.S46 Shareware
- 76.76.S62 Software ecosystems
- 76.76.S63 Software failures see QA76.76.F34
- Software frameworks
  - For special frameworks, see the framework, e.g., Microsoft .NET Framework QA76.76.M52
- 76.76.S64 Software maintenance
  - Including Year 2000 date conversion
- 76.76.S65 Software measurement
- 76.76.S66 Software support
- 76.76.S69 Spyware
- 76.76.S73 Standards for software
- 76.76.S95 Systems software
- 76.76.T45 Teleprocessing monitors
- 76.76.T47 Termination
- 76.76.T48 Testing of software
- 76.76.T49 Text editors
  - For works on how to use text editors to produce paper documents, see Z52, Z253.3+, or Z253.53+
- 76.76.T55 Threads
- 76.76.T83 Translators
- 76.76.U84 Utilities
- 76.76.V47 Verification and validation of software
- 76.76.W56 Viruses see QA76.76.C68
- Windows
  - Class here works on window functionality
  - For works on individual Microsoft Windows operating systems see QA76.774.A+
  - Year 2000 date conversion see QA76.76.S64
- 76.765 Firm-ware
- Operating systems
- 76.77 General works
- 76.774.A-Z Individual operating systems. By system, A-Z
  - Android
  - Berkeley BSD
  - BSD, Free see QA76.774.F74
  - DOS
  - FreeBSD
  - iOS
  - Linux
  - Mac OS

## Instruments and machines

## Calculating machines

## Electronic computers. Computer science

## Computer software

## Operating systems

## Individual operating systems. By system, A-Z -- Continued

- 76.774.M43 Macintosh OS see QA76.774.M33
- 76.774.M434 Microsoft Windows 7
- 76.774.M435 Microsoft Windows 8
- 76.774.M48 Microsoft Windows 10
- 76.774.M53 Microsoft Windows Me
- 76.774.M55 Microsoft Windows NT
- 76.774.M56 Microsoft Windows server
- 76.774.M58 Microsoft Windows Vista
- 76.774.S65 Microsoft Windows XP
- 76.774.U28 Solaris
- 76.774.U64 Ubuntu
- 76.8.A-Z UNIX
- 76.8.A54 Vista see QA76.774.M56
- 76.8.B35 Windows 7 see QA76.774.M43
- 76.8.B38 Windows 8 see QA76.774.M434
- 76.8.C46 Windows 10 see QA76.774.M435
- 76.8.E53 Windows ME see QA76.774.M48
- 76.8.I12 Windows NT see QA76.774.M53
- 76.8.I63 Windows server see QA76.774.M55
- 76.8.I64 Windows Vista see QA76.774.M56
- 76.8.K56 Windows XP see QA76.774.M58
- 76.8.M3 Special computers, computer systems, and microprocessors. By name, A-Z
- 76.8.M47 AN/FSQ-7
- 76.8.P53 BBC Microcomputer
- 76.8.R15 BeagleBone Black
- 76.8.S25 Chromebook
- 76.8.U6 ENIAC
- 76.8.U7 IBM 360
- 76.84 iPad
- 76.85 iPhone
- 76.87 Kindle Fire
- 76.875 MacBook see QA76.8.M3
- 76.88 MacBook
- 76.884 Including MacBook
- 76.885 Micro:bit
- 76.887 PLATO
- 76.888 Raspberry Pi
- 76.889 Samsung
- 76.884 Including Samsung Galaxy series smartphones
- 76.885 Univac
- 76.887 Ural
- 76.884 Fourth generation computers
- 76.885 Fifth generation computers
- 76.87 Neural computers. Neural networks
- 76.875 Artificial immune systems. Immunocomputers
- 76.88 Supercomputers. High performance computing
- 76.884 Including heterogeneous computing
- 76.885 Biocomputers
- 76.887 Petaflops computers
- 76.888 Molecular computers. DNA computers

## Instruments and machines

## Calculating machines

## Electronic computers. Computer science -- Continued

- 76.889 Quantum computers  
 76.89 Pen-based computers  
 76.893 Tablet computers  
 76.9.A-Z Other topics, A-Z  
 76.9.A23 Abstract data types  
 76.9.A25 Access control. Computer security  
     Cf. HF5548.37 Security measures in electronic data processing departments  
     Cf. TK5105.8855 Internet access control  
 76.9.A3 Adaptive computing  
 76.9.A43 Algorithms  
 76.9.A48 Ambient intelligence  
 76.9.A73 Architecture, Computer  
 76.9.A93 Auditing  
     Class here works on the auditing of electronic data processing systems and activities  
     For works dealing with the auditing of electronic data processing departments see  
     HF5548.35  
 76.9.A94 Augmented reality  
 76.9.A955 Automatic hypothesis formation  
 76.9.A96 Automatic theorem proving  
 76.9.A97 Autonomic computing  
 76.9.B22 B method  
 76.9.B32 Backup processing  
 76.9.B38 Batch processing  
 76.9.B45 Big data  
     Biologically-inspired computing see QA76.9.N37  
 76.9.B56 Blockchains  
 76.9.B84 Bulletin boards  
     Camps, Computer see QA76.33  
     Children and computers see QA76.9.C659  
     Civilization and computers see QA76.9.C66  
 76.9.C55 Client/server computing  
 76.9.C58 Computational grids  
     Computer algorithms see QA76.9.A43  
     Computer architecture see QA76.9.A73  
 76.9.C62 Computer arithmetic  
     Computer camps see QA76.33  
 76.9.C63 Computer capacity  
 76.9.C64 Computer literacy  
     Computer logic see QA76.9.L63  
     Computer mathematics see QA76.9.M35  
 76.9.C643 Computer organization  
 76.9.C65 Computer simulation  
     Cf. T57.62+ Industrial engineering  
     Cf. TA343 Engineering mathematics  
 76.9.C659 Computer system failures see QA76.9.F34  
 76.9.C659 Computers and children  
     Cf. LC40.5.C66 Computer-assisted home schooling  
 76.9.C66 Computers and civilization. Social aspects of computers  
 76.9.C66 Computers and family see QA76.9.F35  
 76.9.C66 Computers and older people see QA76.9.O43  
 76.9.C66 Computers and women see QA76.9.W65  
 76.9.C67 Constraint databases  
 76.9.C67 Conversion of computer files see QA76.9.F48

## Instruments and machines

## Calculating machines

## Electronic computers. Computer science

## Other topics, A-Z -- Continued

- 76.9.C68 Conversion of computer systems
- 76.9.C72 Cookies (Computer science)
- 76.9.C92 Crowdsourcing see QA76.9.H84
- Cyberinfrastructure
- Data analysis, Quantitative see QA76.9.Q36
- 76.9.D26 Database design
- 76.9.D3 Database management
  - Cf. QA76.9.D37 Data warehousing
- 76.9.D314 Database security
- 76.9.D32 Databases
  - Including online databases and non-relational databases
  - Cf. QA76.9.W43 Web databases
- 76.9.D33 Data compression
- 76.9.D335 Data encryption
- 76.9.D337 Data entry
- 76.9.D338 Data integration
- 76.9.D3385 Data logging. Event logging
  - Class here general works on software generated lists of events
  - For works on data logging equipment and logs used in a specific field, see the field, e.g., QH324.9.B5 Biotelemetry
  - For data loggers see TK7895.D28
- 76.9.D34 Data marts
- 76.9.D343 Data mining
  - Including OLAP technology and multimedia data mining
- 76.9.D345 Data preparation
- 76.9.D348 Data recovery
- 76.9.D35 Data structures
  - Cf. QA76.9.C72 Cookies (Computer science)
- 76.9.D37 Data warehousing
- 76.9.D43 Debugging in computer science
  - Including structured walkthrough
- 76.9.D5 Distributed processing
- 76.9.D6 Documentation
  - Cf. QA76.76.D63 Software documentation
- 76.9.E25 Economic aspects
- 76.9.E53 End-user computing
- 76.9.E57 Entertainment computing
- 76.9.E58 Environmental aspects
- 76.9.E77 Error messages
- Ethical aspects see QA76.9.M65
- 76.9.E94 Evaluation of computer performance
- 76.9.E95 Evaluation of data processing activities
- Event logging see QA76.9.D3385
- Expert systems see QA76.76.E95
- 76.9.F34 Failures of computer systems
  - Cf. QA76.76.F34 Software failures
- 76.9.F35 Computers and family
- 76.9.F38 Fault-tolerant computing
- 76.9.F48 File conversion
  - Including individual file conversion software, e.g. Adobe Acrobat
- 76.9.F5 File organization
- 76.9.F53 File processing

## Instruments and machines

## Calculating machines

## Electronic computers. Computer science

## Other topics, A-Z -- Continued

- 76.9.F67 Formal methods  
 76.9.G37 Garbage collection  
 76.9.G68 Government policy  
 Granular computing see QA76.9.S63  
 Graphical user interfaces see QA76.9.U83  
 Grids, Computational see QA76.9.C58  
 76.9.H35 Hard disk management  
 76.9.H36 Hashing  
 76.9.H84 Human computation. Crowdsourcing  
     Cf. Q337+ Distributed artificial intelligence  
 76.9.H85 Human-computer interaction  
 76.9.I52 Information visualization  
 76.9.I55 Input design  
 76.9.I58 Interactive computer systems  
 76.9.K48 Keyboarding  
     Class here works on keyboarding computer formats, such as punched cards or punched  
     tape  
     For works on keyboarding eye-readable reports and displays see Z49+  
 76.9.L38 Lattice theory  
 76.9.L63 Logic, Computer  
 76.9.M3 Management  
 76.9.M35 Mathematics, Computer  
 76.9.M45 Memory management  
 76.9.M65 Moral and ethical aspects  
 76.9.M68 Multilingual computing  
 76.9.N37 Natural computation  
     Including biologically-inspired computing  
 76.9.N38 Natural language processing  
     Cf. P98+ Linguistics  
 76.9.N47 Netcentric computing  
 Non-relational databases see QA76.9.D32  
 76.9.O35 Object-oriented methods  
     Cf. QA76.64 Object-oriented programming  
 OLAP technology see QA76.9.D343  
 76.9.O43 Computers and older people  
 76.9.O59 Olympiads  
 Online databases see QA76.9.D32  
 Organization, Computer see QA76.9.C643  
 76.9.P75 Psychological aspects  
 76.9.Q36 Quantitative research. Quantitative data analysis  
 76.9.Q4 Question-answering systems  
 Religious aspects see BL255.5  
 76.9.R45 Remote job entry  
 76.9.R48 Reversible computing  
 Security, Computer see QA76.9.A25  
 Security, Data base see QA76.9.D314  
 76.9.S54 Self-stabilization  
 Social aspects of computers see QA76.9.C66  
 76.9.S63 Soft computing  
     Including granular computing  
 Software maintenance see QA76.76.S64

- Instruments and machines
  - Calculating machines
    - Electronic computers. Computer science
    - Other topics, A-Z -- Continued
      - 76.9.S8 Standards
        - Cf. QA76.76.S73 Standards for software
      - 76.9.S84 Structured techniques
      - Structured walkthrough see QA76.9.D43
      - 76.9.S88 System design
      - System failures see QA76.9.F34
      - 76.9.S9 Systems migration
      - 76.9.T43 Technical support
        - Cf. QA76.76.S66 Software support
      - 76.9.T48 Text processing
      - 76.9.T7 Transborder data flow
      - 76.9.U83 User interfaces
        - Including graphical user interfaces
      - 76.9.V5 Virtual computer systems
      - Visualization, Information see QA76.9.I52
      - 76.9.V65 Voice computing
      - 76.9.W43 Web databases
      - 76.9.W65 Computers and women
      - 76.95 Use of electronic computers in mathematics
        - For works on the use of calculators in mathematics instruction see QA20.C34
        - For works on computer-assisted instruction in mathematics see QA20.C65
  - Miscellaneous geometrical instruments
    - Cf. T375+ Drawing instruments
- 77 General works
- 81 Planimeters
- Mechanical aids in higher analysis
  - 85 General works
  - 90 Graphic methods (General). Nomography
- 93 Popular works
- 95 Mathematical recreations
  - For Rubik's Cube, Rubik's Revenge, Rubik's Snake, etc. see QA491
- 99 Miscellany and curiosa
  - Elementary mathematics. Arithmetic
    - Including basic mathematical concepts for the elementary grades
    - Cf. QA248+ Foundations of arithmetic
    - Textbooks
      - 101 Through 1845
      - 103 1846-1900
      - 106 1901-1960
      - 107 1961-2000
      - 107.2 2001-
    - 109 Special aspects of the subject as a whole
    - 111 Rapid calculators and short cuts
    - 113 Counting
      - Class here works dealing with counting, including counting books and other forms of materials
      - For works dealing with numeration, the concept of numbers, and numeration systems see QA141+
  - 115 Elementary operations
    - e.g. addition, subtraction, multiplication, division
  - 117 Fractions
    - Including proportion, ratio

- Elementary mathematics. Arithmetic -- Continued
- 119 Roots  
Including square root, cube root  
Study and teaching  
Cf. LC4621 Education of children with mental disabilities  
General works, treatises, and textbooks
- 135 Through 1960  
135.5 1961-2000  
135.6 2001-
- 137 Teaching fractions  
139 Problems, exercises, examinations
- Numeration, number concept, numeration systems  
Cf. QA241+ Theory of numbers  
Cf. QA297+ Numerical analysis
- 141 General works, treatises, and textbooks  
141.15 Number concept (Elementary)  
Cf. BF456.N7 Numbers. Mathematics (Psychology)
- 141.2 History  
Cf. GN476.15 Primitive numeration  
Cf. P211+ History of writing
- 141.3 Juvenile works  
141.35 Decimal system  
Class here expository and historical works on the decimal system  
For tables, arithmetic, and other works with values expressed mainly in the decimal system, see the special class numbers that are provided for particular fields, e. g. QA101 Arithmetic. For tables, arithmetic, etc., for other special systems, see QA141.4+
- 141.4 Binary system  
Duodecimal system
- 141.5.A1 Periodicals, societies, congresses, serial publications  
141.5.A2-Z General works, treatises, and textbooks
- 141.6 Octal system  
141.8.A-Z Other special systems, A-Z  
141.8.Q5 Quinary system  
141.8.S4 Sexadecimal system  
141.8.S5 Sexagesimal system  
141.8.T45 Ternary system  
141.8.V54 Vigesimal system
- (145) Algebra and arithmetic  
see QA101+
- Algebra
- 150 Periodicals, societies, congresses, serial publications  
151 History  
Textbooks  
Elementary  
152 Through 1970  
152.2 1971-2000  
152.3 2001-
- Advanced  
154 Through 1970  
154.2 1971-2000  
154.3 2001-
- 154.8 Early works to 1800  
155 General works and treatises  
Including higher algebra
- 155.15 Juvenile works  
155.2 Addresses, essays, lectures

- Algebra -- Continued
- 155.5 Special aspects of the subject as a whole
- 155.7.A-Z Special topics, A-Z
- 155.7.E4 Electronic data processing
- 157 Problems, exercises, examinations
- Study and teaching. Research
- 159 General works
- 159.2 Outlines, syllabi, etc.
- 161.A-Z Miscellaneous elementary topics, A-Z
- 161.B48 Binomial coefficients
- 161.B5 Binomial theorem
- 161.E95 Exponents
- 161.F3 Factors
- Logarithms see QA59
- 161.P59 Polynomials
- 162 Abstract algebra
- Cf. QA10.3 Boolean algebra
- Combinatorics. Combinatorial analysis
- 164 General works
- 164.5 Problems, exercises, etc.
- 164.8 Enumeration problems. Generating functions
- Cf. QA353.G44 Special functions
- 164.9 Identities
- 165 Permutations. Combinations. Partitions
- Including magic squares and magic cubes
- Graph theory
- Cf. QA612.18 Map-coloring problem
- 166 General works
- 166.14 Bipartite graphs
- 166.145 Cayley graphs
- 166.15 Directed graphs
- 166.16 Perfect graphs
- 166.165 Quantum graphs
- 166.17 Random graphs
- 166.175 Fuzzy graphs
- 166.18 Hamiltonian graph theory
- 166.185 Intersection graph theory
- 166.19 Eulerian graph theory
- 166.195 Topological graph theory
- 166.197 Graph labelings
- Including magic labelings
- 166.2 Trees
- 166.22 Paths and cycles
- 166.23 Hypergraphs
- 166.24 Reconstruction
- 166.242 Representations of graphs
- 166.243 Graph connectivity
- 166.245 Graph algorithms
- 166.247 Graph coloring
- Design and configurations
- 166.25 General works
- 166.3 Block designs
- 166.4 Hadamard matrices
- 166.6 Matroids. Greedoids
- 166.7 Packing and covering
- 166.75 Polyominoes



## Algebra

- Combinatorics. Combinatorial analysis
  - Design and configurations -- Continued
- 166.8 Tessellation and tiling
- Combinatorial geometry
  - 167 General works
  - 167.2 Finite geometries
- 169 Homological algebra
  - Including functors, categories
- (171) Group theory
  - see QA174+
- Ordered sets
  - 171.48 General works
  - 171.485 Partially ordered sets
  - 171.49 Semilattices
- 171.5 Lattice theory
  - Cf. QD921+ Crystal lattices
- Ordered algebraic structures
  - 172 General works
  - 172.4 Ordered groups
- Group theory
  - Cf. QA172.4 Ordered groups
  - Cf. QA385+ Continuous groups
  - Cf. QA387 Topological groups. Lie groups
  - Cf. QA613.7 Topological transformation groups
  - Cf. QA614.97 Pseudogroups and deformations of structures
  - Cf. QC174.17.G7 Quantum theory
  - Cf. QD455.3.G75 Physical chemistry
- 174 Periodicals, societies, congresses, serial publications
- 174.2 General works
- 174.5 Juvenile works
- Study and teaching. Research
  - 174.6 General works
  - 174.62.A-Z Special topics, A-Z
    - 174.62.C65 Computer-assisted instruction
  - 174.7.A-Z Special topics, A-Z
    - 174.7.D36 Data processing
    - 174.7.S96 Symmetry
- 175 Permutation groups
- 176 Representations of groups
- 177 Finite groups
- 177.4 Formal groups
- 178 Infinite groups
- 179 Linear algebraic groups
- 180 Abelian groups
- 181 Groupoids
- 181.5 Quasigroups
- 182 Semigroups
- 182.5 Combinatorial group theory
- 183 Geometric group theory
- Linear and multilinear algebra. Matrices
  - Cf. QA243 Bilinear forms
  - General works, treatises, and textbooks
    - 184 To 2000
    - 184.2 2001-
    - 184.5 Problems, exercises, examinations

## Algebra

## Linear and multilinear algebra. Matrices -- Continued

- 185.A-Z Special topics, A-Z
- 185.C65 Computer-assisted instruction
- 185.D37 Data processing
- 186 Vector spaces
- 187 Linear dependence
- Matrices
- 188 General works
- 191 Determinants
- 192 Elimination
- 193 Eigenvalues and eigenvectors
- 195 Proximity matrices
- 196 Quaternions
- 196.5 Random matrices
- 196.7 Sylvester equations
- 197 Triangularization
- 199 Clifford algebras
- 199.5 Multilinear algebra. Tensor products
- Vector and tensor algebra
  - Cf. QA433 Vector and tensor analysis
- 200 General works
- 201 Invariants
- 205 Exterior algebra. Ausdehnungslehre
- Theory of equations
- 211 General works, treatises, and textbooks
- 212 Roots. Symmetric functions
  - Cf. QA119 Elementary mathematics
- 214 General resolution of equations
  - Including simultaneous equations
- 215 Cubic, quadratic, biquadratic, and other particular equations
- 218 Numerical solutions
- 219 Graphic algebra
- Approximation theory
  - Cf. QA297+ Numerical analysis
- 221 General works
- 223 Radial basis functions
- 224 Spline theory
- Number theory
- 241 General works, treatises, and textbooks
- 241.5 Geometry of numbers
- 241.7 Probabilistic number theory
- 242 Divisibility. Linear congruences. Factorization. Quadratic residues. Diophantine analysis
- Arithmetical algebraic geometry
  - 242.5 General works
  - 242.6 Arakelov theory
- 243 Forms
  - Including quadratic, bilinear forms
- 244 Higher congruences, residues. Fermat's theorem
- 245 Cyclotomy. Application of functions to arithmetic
- 246 Distribution of primes. Special numerical functions, etc.
- 246.5 Sequences of integers
- Exponential and character sums
  - 246.7 General works
  - 246.8.A-Z Special sums, A-Z
  - 246.8.G38 Gaussian

- Algebra
  - Number theory
    - Exponential and character sums
      - Special sums, A-Z -- Continued
        - 246.8.K58 Kloosterman
        - 246.8.T75 Trigonometric
    - Algebraic fields. Algebraic numbers
      - 247 General works
      - Modular fields. Finite fields
        - 247.3 General works
        - 247.35 Modular arithmetic
        - 247.4 Differential and difference algebra
        - 247.45 Division algebras
        - 247.5 Transcendental numbers. Irrational numbers
    - Foundations of arithmetic. Set theory. Transfinite numbers
      - 248 General works
      - 248.3 Elementary textbooks
      - 248.5 Fuzzy sets
    - Recursive functions. Recursive arithmetic see QA9.6+
    - Universal algebra
      - 251 Cf. QA184+ Linear and multilinear algebra
      - Commutative rings and algebras
        - 251.3 Commutative rings and algebras
        - 251.35 Group rings
        - 251.38 Local rings
        - 251.4 Noncommutative rings and algebras
        - 251.5 Associative rings and algebras
        - Nonassociative rings and algebras
          - 252 General works
          - 252.3 Lie algebras. Lie superalgebras
            - Cf. QA387 Lie groups
          - 252.5 Jordan algebras
      - Complex numbers
        - 255 Complex numbers
      - Matrices
        - (263) see QA188+
    - Machine theory. Abstract machines. Abstract automata
      - Cf. QA9.6+ Recursive functions
      - Cf. QA75.5+ Electronic computers
      - Cf. QA402.3+ Control theory
    - General works, treatises, and textbooks
      - 267 General works, treatises, and textbooks
      - Formal languages
        - 267.3 Cf. P98+ Language data processing
      - Special types of machines, A-Z
        - 267.5.A-Z Special types of machines, A-Z
          - 267.5.C45 Cellular automata
          - 267.5.F89 Fuzzy automata
          - 267.5.P7 Probabilistic automata
          - 267.5.S4 Sequential machines
          - 267.5.T45 Temporal automata
      - Computational complexity. Kolmogorov complexity
        - 267.7 Computational complexity. Kolmogorov complexity
      - Coding theory
        - 268 Including the mathematics of cryptography
      - Switching theory
        - 268.5 Switching theory
          - Cf. QA10.3 Boolean algebra
          - Cf. TK7868.S9 Switching circuits
  - Game theory
    - 269 General works
      - Cf. T57.92 Industrial engineering

## Algebra

Game theory -- Continued

- 270 Games of strategy
- 271 Games of chance
- 272 Differential games
- 272.4 Cooperative games
- 272.5 Noncooperative games

## Probabilities

Cf. T57.3+ Industrial engineering

Cf. TA340 Engineering mathematics

- 273.A1 Periodicals, societies, congresses, serial publications
- 273.A3 Dictionaries and encyclopedias
- 273.A35 Philosophy
- 273.A4 History
- 273.A5-Z General works, treatises, and textbooks
- 273.15 Popular works
- 273.16 Juvenile works
- 273.18 Addresses, essays, lectures
- 273.19.A-Z Special topics, A-Z
- 273.19.E4 Electronic data processing
- Study and teaching. Research
  - 273.2 General works
  - 273.25 Problems, exercises, examinations
  - 273.26 Computer-assisted instruction
  - 273.27 Programmed instruction
- 273.3 Handbooks, tables, formulas, etc.
- 273.4 Axioms and foundations
- 273.43 Probability theory on algebraic and topological structures
- 273.45 Combinatorial probabilities
- 273.5 Geometric probability. Stochastic geometry. Random sets
- 273.6 Distributions. Characteristic functions
- 273.67 Limit theorems
- Stochastic processes
  - Cf. T57.33 Renewal theory
  - Cf. T57.35+ Renewal theory
  - Cf. T57.9 Queuing theory
- 274.A1 Periodicals, societies, congresses, serial publications
- 274.A5-Z General works, treatises, and textbooks
- 274.12 Problems, exercises, etc.
- 274.13 Axioms and foundations
- Stochastic analysis
  - 274.2 General works
  - 274.22 Stochastic integrals
  - 274.223 Stochastic inequalities
  - 274.225 Stochastic sequences
  - 274.23 Stochastic differential equations
  - 274.25 Stochastic partial differential equations
  - 274.27 Stochastic integral equations
  - 274.28 Random operators
  - 274.29 White noise theory
- 274.3 Stationary processes
- 274.4 Gaussian processes
- 274.42 Point processes
- 274.45 Random fields
- 274.46 Random measures
- 274.5 Martingales. Semimartingales

- Probabilities
  - Stochastic processes -- Continued
  - 274.6 Learning models
  - Markov processes. Markov chains
  - 274.7 General works
  - 274.73 Random walks
  - 274.75 Diffusion processes. Brownian motion processes
    - Cf. QC183 Constitution and properties of matter and anti-matter
  - 274.755 Jump processes
  - 274.76 Branching processes
  - 274.8 Queuing theory
  - 274.9 Self-similar processes
  - 275 Theory of errors. Least squares
- Mathematical statistics
  - Including statistical inference and fundamental concepts of statistics
  - For special applications of statistics, see the field of application, e.g. HD1421+ Agricultural statistics; LB2846 Educational statistics; TA340 Statistical methods in engineering
  - 276.A1 Periodicals, societies, congresses, serial publications
  - 276.A12 Collected works (nonserial)
  - 276.A2-Z General works
  - 276.12 Elementary texts
    - Including descriptive statistics
  - 276.13 Juvenile works
  - 276.14 Dictionaries and encyclopedias
  - 276.15 History
  - Biography
    - 276.156 Collective
    - 276.157.A-Z Individual, A-Z
  - 276.16 Addresses, essays, lectures
  - 276.17 Statistics as a profession. Vocational guidance
  - Study and teaching. Research
    - 276.18 General works
    - 276.19 Outlines, syllabi
    - 276.2 Problems, exercises, examinations
    - 276.22 Computer-assisted instruction
    - 276.23 Geometrical models
    - 276.25 Handbooks, tables, formulas, etc.
      - Including tables of random numbers
  - 276.3 Graphic methods
  - Data processing
    - Class here works on the use of data processing and computers in mathematical statistics in general
    - For the application of statistical data processing and statistical analysis programs in special fields see the field, e. g. HF5415.125, Marketing; T57.5, Industrial engineering
  - 276.4 General works
  - 276.45.A-Z Special programs or languages, A-Z
    - 276.45.J56 JMP (Computer file)
    - 276.45.M38 Mata
    - 276.45.M53 Microsoft Excel
    - 276.45.M56 Minitab
    - 276.45.R3 R (Computer program language)
    - 276.45.S27 SAS (Computer program language)
    - 276.45.S28 SCA statistical system
    - 276.45.S83 Statistica
  - 276.5 Fuzzy statistics
  - 276.6 Sampling theory and methods

- Mathematical statistics -- Continued
- 276.7 Sampling distribution
- 276.74 Tolerance regions. Confidence intervals
- 276.8 Estimation theory
  - Including measurement uncertainty
- 276.9 Minimum message length. Minimum description length
- Testing of hypotheses
- 277 General works
- 277.3 Chi-square test
- 277.5 Observed confidence levels
- Multivariate analysis
- 278 General works
- 278.2 Regression analysis. Correlation analysis
- 278.3 Path analysis. Structural equation modeling
- 278.4 Paired and multiple comparisons
- 278.5 Factor analysis. Principal components analysis. Correspondence analysis
- 278.55 Cluster analysis
- 278.6 Latent structure analysis
- 278.65 Discriminant analysis
- 278.7 Order statistics
- 278.75 Ranking and selection
- 278.8 Nonparametric methods
- Analysis of variance and covariance. Analysis of means. Experimental design
- 279 General works
- 279.2 Prediction analysis
- Decision theory
- 279.4 General works
- 279.5 Bayesian statistics
- 279.6 Fuzzy decision making
- 279.7 Multistage decision procedures. Sequential analysis
- 280 Time series analysis
- 281 Interpolation. Extrapolation
  - Cf. QA47+ Mathematical tables
  - Cf. QA221+ Approximation theory
  - Cf. QA273.A1+ Probabilities. Theory of errors. Least squares
  - Cf. QA297+ Numerical analysis
- 292 Sequences
  - Cf. QA246.5 Sequences of integers
- 295 Series
  - Including infinite products and other infinite processes
- Numerical analysis
  - Cf. QA221+ Approximation theory
- 297 General works, treatises, and textbooks
- 297.3 Problems, exercises, etc.
- 297.4 Discrete mathematics
- 297.5 Numerical approximation
  - For numerical solution to differential equations, including initial value problems and boundary value problems see QA370+
  - Cf. QA71+ Instruments and machines
  - Cf. QA90 Graphic methods. Nomography
  - Cf. QA218 Numerical solutions of algebraic equations
  - Cf. QA275 Least squares
  - Cf. QA281 Interpolation. Extrapolation
- 297.55 Relaxation methods
- 297.6 Smoothing. Curve fitting
- 297.65 Rounding

- Numerical analysis -- Continued
- 297.7 Roundoff errors
- 297.75 Interval analysis
- 297.8 Iterative methods
- 298 Numerical simulation. Monte Carlo method
  - Cf. T57.62+ Industrial engineering
- 299 Numerical differentiation
- Numerical integration
  - 299.3 General works
  - 299.4.A-Z Special formulas, A-Z
  - 299.4.C83 Cubature formulas
  - 299.4.G3 Gaussian quadrature formulas
- Analysis
  - Including calculus, functional analysis, functions, differential equations
- 299.6 Periodicals, societies, congresses, serial publications
- Foundations
  - 299.8 General works
  - 299.82 Nonstandard analysis
  - 300 General works, treatises, and textbooks
  - 300.5 Addresses, essays, lectures
  - 301 Problems, exercises, examinations
  - 302 Early works through 1800
- Calculus
  - Cf. QA431 Calculus of differences
  - General works, treatises, and textbooks
    - 303 Through 2000
    - 303.2 2001-
    - 303.3 Study and teaching. Research
    - 303.5.A-Z Special topics, A-Z
    - 303.5.C65 Computer-assisted instruction
    - 303.5.D37 Data processing
- Differential calculus
  - 304 General works
  - 305 Problems, exercises, examinations
  - 306 Miscellaneous special topics
- Integral calculus
  - 308 General works
  - 309 Problems, exercises, examinations
  - 310 Tables of integrals
  - 311 Miscellaneous special topics
  - Measure and integration
    - Including Lebesgue integrals
- 312 General works
- 312.5 Fuzzy measure theory
- 313 Ergodic theory
  - Cf. QA329.2 Linear operators
  - Cf. QA611.5 Topology
- 314 Fractional calculus
- Calculus of variations
  - Cf. QA402.3+ Control theory
- 315 General works
- 316 Miscellaneous special topics
- Functional analysis
  - 319 Periodicals, societies, congresses, serial publications
  - 320 General works
  - 321 Addresses, essays, lectures

## Analysis

## Functional analysis -- Continued

- 321.5 Nonlinear functional analysis
  - 322 Topological linear spaces
  - 322.2 Normed linear spaces. Banach spaces
  - 322.4 Inner product spaces. Hilbert spaces
  - 322.5 Indefinite inner product spaces
  - 323 Function spaces
  - 324 Theory of distributions
  - 325 Measures, integration, derivatives
  - 326 Topological algebras. Banach algebras
  - Operator theory
    - 329 General works
    - 329.2 Linear operators
      - Differential operators
        - 329.4 General works
        - 329.42 Partial differential operators
        - 329.5 Narrow operators
        - 329.6 Integral operators
        - 329.7 Pseudodifferential operators
        - Nonlinear operators
          - 329.8 General works
          - 329.9 Fixed point theory
            - Cf. QA612.24 Fixed points and coincidences
- Theory of functions
  - 331 General works, treatises, and advanced textbooks
  - 331.3 Elementary textbooks
  - 331.5 Functions of real variables
  - 331.7 Functions of complex variables
  - Riemann surfaces
    - Including multiform, uniform functions
  - 333 General works
  - 335 Fuchsian groups
  - 337 Teichmüller spaces
  - 341 Algebraic functions
  - 342 Logarithmic, circular, and exponential functions
  - 343 Elliptic functions. Elliptic integrals. Modular functions
  - 345 Abelian functions. Theta functions
    - Including hyperelliptic functions
  - Special functions
    - Cf. QA406 Spherical harmonics
    - Cf. QA408 Bessel functions
    - Cf. QA409 Lamé functions
  - 351 General
    - Other special functions, A-Z
      - 353.A9 Automorphic. Fuchsian
      - 353.C17 C-functions
      - 353.C64 Concave functions
      - 353.E5 Entire functions
      - Fuchsian see QA353.A9
      - 353.G3 Gamma
      - 353.G44 Generating functions
        - Cf. QA164.8 Combinatorial analysis
      - 353.H9 Hypergeometric
      - 353.K47 Kernel functions
      - 353.P4 Periodic functions



- Analysis
  - Theory of functions
    - Special functions
      - Other special functions, A-Z -- Continued
    - Transcendental functions
  - Miscellaneous special topics
- 353.T7 Geometric principles of analysis. Mapping of regions. Conformal representation
  - 355 Cf. QA646 Differential geometry
  - 360
- Differential equations
  - 370 Periodicals, societies, congresses, serial publications
  - 371 General works, treatises, and textbooks
    - Study and teaching. Research
      - 371.3 General works
      - 371.32 Outlines, syllabi, etc.
      - 371.35 Computer-assisted instruction
    - 371.5.A-Z Special topics, A-Z
      - 371.5.D37 Data processing
    - 372 Ordinary differential equations (linear and nonlinear)
    - 372.5 Differential-algebraic equations
    - 373 Differential-difference equations
    - 374 Partial differential equations (first order)
    - 377 Partial differential equations (second and higher orders)
    - 377.3 Evolution equations
      - Cf. QC20.7.E88 Mathematical physics
    - 377.5 Degenerate differential equations
    - 378 Initial value problems
    - 378.5 Inverse problems
    - 379 Boundary value problems
    - 380 Bifurcation theory
    - 381 Differential forms and invariants
      - Cf. QA614.46 Pfaffian systems
  - Continuous groups (of transformations). Infinitesimal transformations
    - 385 General works
    - 387 Topological groups. Lie groups
      - Cf. QA613.7 Topological transformation groups
      - Cf. QA613.8 Hopf algebras
      - Cf. QA614.97 Pseudogroups and deformations of structures
- Analytical methods used in the solution of physical problems
  - Including mathematical physics (mathematical theory only)
    - Cf. QC19.2+ Mathematical physics
    - Cf. TA329+ Engineering mathematics and engineering analysis
- 401 General works, treatises, and textbooks
  - System analysis
    - Cf. T57.6+ Industrial engineering
    - Cf. TA168 Systems engineering
- 402 General works
  - 402.2 Decomposition method
    - Control theory (General and linear)
      - Cf. TJ212+ Automatic control
  - 402.3 General works
  - 402.35 Nonlinear control theory
  - 402.37 Stochastic control theory
- Mathematical optimization. Programming
  - Cf. T57.7+ Industrial engineering
  - 402.5 General works

## Analysis

Analytical methods used in the solution of physical problems

Mathematical optimization. Programming -- Continued

402.6

Transportation problems

Including assignment and location problems

Harmonic analysis (General)

Including abstract harmonic analysis

403

General works

403.3

Wavelets

Fourier analysis

403.5

General works

404

Fourier series

404.5

Orthogonal series. Orthogonal functions and polynomials

Potential theory. Pluripotential theory

Cf. QA825+ Analytic mechanics

404.7

General works

405

Harmonic functions

406

Laplace and Legendre functions (Spherical harmonics)

408

Bessel functions (Cylindrical harmonics)

409

Lamé functions (Ellipsoidal harmonics)

411

Toroidal and other harmonics

425

Dirichlet's problem and analogous problems

427

Nonlinear theories. Nonlinearity

431

Difference equations and functional equations. Integral equations. Calculus of differences

432

Operational calculus. Laplace transformation

433

Vector and tensor analysis. Spinor analysis. Scalar field theory

## Geometry

Cf. QA681 Foundations of geometry

440

Periodicals, societies, congresses, serial publications

441

Dictionaries and encyclopedias

442

Philosophy

443

Collected works (nonserial)

443.5

History

444

Early works through 1800

445

General works, treatises, and textbooks

445.5

Juvenile works

446

Addresses, essays, lectures

447

Special aspects of the subject as a whole

448.A-Z

Special topics, A-Z

448.D38

Data processing

## Elementary geometry

451

Euclid's Elements for use in schools

For commentaries, Greek texts, and translations see QA31

Other textbooks (Plane and solid)

453

General works

455

Plane

457

Solid

459

Problems, exercises, examinations

460.A-Z

Special propositions, A-Z

460.P8

Pythagorean theorem

Study and teaching. Research

461

General works, treatises, and textbooks

Special teaching methods and aids

462

General works

462.2.A-Z

Special types, A-Z

462.2.C65

Computer-assisted instruction

- Geometry
  - Elementary geometry
    - Study and teaching. Research
      - Special teaching methods and aids
      - Special types, A-Z -- Continued
    - Games
  - Laboratory manuals
  - Practical geometry. Geometrical drawing
    - Cf. QA497 Higher geometrical drawing (Plane)
    - Cf. QA501+ Descriptive geometry
  - Measurement
  - Famous problems
    - General works
    - Circle squaring
    - Trisection of the angle
    - Duplication of the cube
  - Projective geometry
    - Cf. QA554 Projective methods (Analytic geometry)
  - Modern geometry. Inversions
    - General works
    - Plane
    - Solid
  - Affine geometry
    - Special topics in plane geometry
      - Axioms. Postulates. Logic
        - Cf. QA681 Foundations of geometry
      - Straight lines, angles, triangles, etc.
      - Curves. Ovals
      - Circle
      - Conics
    - Special topics in solid geometry
      - Including Rubik's Cube, Rubik's Revenge, Rubik's Snake, etc.
  - Higher geometrical drawing (Plane)
  - Descriptive geometry
    - Cf. T351+ Mechanical drawing
  - General works, treatises, and textbooks
  - Problems, exercises, examinations
  - Parallel projection
    - General works
    - Orthogonal projection on two planes
      - General works
    - Isometric projection
    - Oblique projection
  - Central projection
    - General works
  - Perspective
    - Class here geometrical works only
    - Cf. NA2710 Architecture
    - Cf. NC748+ Drawing
    - Cf. T369 Mechanical drawing
  - Shades and shadows
    - Class here geometrical works only
    - Cf. NC755 Drawing
  - Spherical projection
    - Cf. GA110+ Map projection
  - Miscellaneous special topics

- 529 Geometry -- Continued
  - Geometry and trigonometry (combined)
  - Trigonometry
    - 531 General works, treatises, and textbooks
    - 533 Plane
    - 535 Spherical
    - 537 Problems, exercises, examinations
    - 538 Miscellaneous special topics
  - Analytic geometry
    - 551 General works, treatises, and textbooks
    - 551.5 Data processing
    - 552 Plane. Conic sections
    - 553 Solid
    - 554 Projective methods
    - 555 Problems, exercises, examinations
    - 556 Coordinates
    - 556.5 Equipollence
    - 557 Straight line and circle. Triangle
    - 559 Conics
    - 559.5 Curves
    - 561 Quadric surfaces
    - 563 Maxima and minima
  - Algebraic geometry
    - 564 General works, treatises, and textbooks
    - Higher algebraic curves
      - 565 General works, treatises, and textbooks
      - 567 Plane curves
      - 567.2.A-Z Special curves, A-Z
        - 567.2.C82 Cubic
        - 567.2.E44 Elliptic
        - 567.2.I84 Isothermic
        - 567.2.M63 Modular
        - 567.2.O76 Orthogonal
        - 567.2.Q35 Quartic
        - 567.2.Q54 Quintic
        - 567.2.S56 Smooth affine
    - Higher algebraic surfaces
      - 571 General works, treatises, and textbooks
      - 573 Special surfaces
        - Including cubic, quartic surfaces
    - 581 Skew algebraic curves
      - Including twisted cubics, curves of double curvature
    - 582 Tropical geometry
    - Transformations, correspondences, and general methods for algebraic configurations
      - Including collineation, correlation
  - 601 General works, treatises, and textbooks
  - 602 Cremona transformations. Quadratic transformations
  - 603 Classification of curves and surfaces. Groups of points and curves
  - 605 Applications of transcendental functions to curves and surfaces
  - 607 Enumerative geometry. Systems of curves and surfaces
  - 608 Connexes, complexes, congruences. Line geometry
    - For algebraic configurations in hyperspace see QA691+
  - 609 Conformal geometry
- Topology
  - 611.A1 Periodicals, societies, congresses, serial publications
  - 611.A3 History

## Geometry

## Topology -- Continued

- 611.A34-Z General works, treatises, and textbooks
- 611.13 Juvenile works
- 611.15 Addresses, essays, lectures
- Study and teaching. Research
- 611.17 General works
- 611.19 Problems, exercises, examinations
- 611.2 Fuzzy topology
- 611.21 Imbeddings
- 611.23 Compactifications. Compact spaces
- 611.234 Realcompactness. Realcompactification. Realcompact spaces
- 611.24 Proximity spaces
- 611.25 Uniform spaces. Quasi-uniform spaces
- 611.28 Metric spaces
- 611.29 Isometries, contractions, expansions
- 611.3 Other miscellaneous topological spaces
  - For linear topological spaces see QA322
- 611.35 CW complexes
- 611.5 Topological dynamics
  - Including those special aspects relating to ergodic theory
  - Cf. QA614.8+ Differentiable dynamical systems
- 611.7 Fixed point theorems
  - Cf. QA329.9 Nonlinear operators
- Algebraic topology. Combinatorial topology
  - Cf. QA166+ Graph theory
- 612 General works
- Low-dimensional topology
  - Cf. QA613.2 Manifolds and cell complexes
- 612.14 General works
- 612.18 Map-coloring problem
- 612.19 Four-color problem
- Knot theory. Link theory
- 612.2 General works
- 612.23 Braid theory
- 612.24 Fixed points and coincidences
  - Cf. QA329.9 Fixed point theory
- Homology and cohomology theories
  - Cf. QA169 Homological algebra
- 612.3 General works
- 612.32 Intersection homology theory
- 612.33 K-theory. KK-theory
- 612.36 Sheaves
- 612.5 Retracts
- Fiber spaces. Fiber bundles. Fiberings
- 612.6 General works
- 612.63 Vector bundles
- Homotopy theory
- 612.7 General works
- 612.72 Homotopy equivalences
- 612.76 Loop spaces
- 612.77 H-spaces
- 612.78 Homotopy groups
- 612.782 Steenrod algebra
- 612.79 Obstruction theory
- 612.8 Spectral sequences

- Geometry
- Topology -- Continued
  - Manifolds and cell complexes
    - Including distance geometry
  - 613 General works
  - 613.2 Topological manifolds
  - 613.4 PL-topology
  - Differential topology
    - 613.6 General works
    - 613.618 Characteristic classes
    - 613.619 Vector fields
    - 613.62 Foliations
    - 613.64 Differentiable mappings
    - 613.65 Diffeomorphisms
    - 613.658 Surgery. Handlebodies
    - 613.659 Symplectic and contact topology
    - 613.66 Cobordism
  - 613.7 Topological transformation groups
    - Cf. QA387 Topological groups
  - 613.8 Hopf algebras
    - Cf. QA387 Topological groups
- Global analysis. Analysis on manifolds
  - 614 General works
  - Differentiable manifolds
    - 614.3 General works
    - 614.4 Jets
    - 614.42 Stratified sets
    - 614.44 Supermanifolds
    - 614.46 Pfaffian systems. Pfaffian problem
  - Calculus on manifolds
    - 614.5 General works
    - 614.58 Differentiable mappings and singularities. Catastrophes
  - 614.7 Critical point theory
  - 614.73 Harmonic maps
  - Differentiable dynamical systems
    - Cf. QA611.5 Topological dynamics
    - Cf. QA871 Analytic mechanicals
  - 614.8 General works
  - 614.813 Attractors
  - 614.82 Flows
  - 614.83 Hamiltonian systems
  - 614.833 Nonholonomic dynamical systems
  - 614.835 Random dynamical systems
  - 614.84 Shadowing systems
  - 614.85 Symbolic dynamics
  - 614.86 Fractals. Fractal analysis
- Partial differential equations and differential operators on manifolds
  - 614.9 General works
  - 614.92 Index theorems
  - 614.95 Spectral geometry
  - 614.97 Pseudogroups and deformations of structures
    - Cf. QA387 Lie groups
- Infinitesimal geometry
  - 615 General works, treatises, and textbooks
  - Of curves
    - 621 General works

## Geometry

## Infinitesimal geometry

## Of curves -- Continued

- 623 Kinematic geometry. Roulettes
- 624 Curvature
- 626 Rectification and quadrature
- 628 Transcendental curves

## Of surfaces

- 631 General works
- 634 Curvature
- 636 Areas and volumes
- 638 Transcendental surfaces
- 639 Differential geometry of congruences, etc.

## Convex geometry

- 639.5 General works
- 640 Convex sets and geometric inequalities
- 640.3 Convex polyhedra. Convex polytopes
- 640.5 Convexity spaces

## Discrete geometry

- 640.7 General works
- 640.72 Aperiodic tilings
- 640.77 Rigidity

## Differential geometry

- Including general theory of surfaces
- 641 General works, treatises, and textbooks
- 642 Problems, exercises, examinations
- 643 Curves on surfaces
- 644 Minimal surfaces. Nets of plane curves
- 645 Surfaces determined by relations of curvature, etc.
- 646 Conformal and other representations of surfaces
  - Cf. GA110+ Map projection
  - Cf. QA360 Mapping of regions, conformal representation
- 648 Deformation of surfaces
- 648.5 Web geometry
- 649 Miscellaneous special topics
- 660 Projective differential geometry
- 665 Symplectic geometry. Contact geometry
- Global differential geometry
  - Cf. QA614+ Global analysis. Analysis on manifolds
- 670 General works
- 671 Global Riemannian geometry
- 671.5 Spin geometry
- 672 Integral geometry
- 681 Foundations of geometry
- 685 Non-Euclidean geometry
- 689 Generalized spaces
- Hyperspace
  - 691 General works
  - 699 Popular works. Fiction
    - Including Flatland, fourth dimension

## Analytic mechanics

- Class here mathematical works only
- Cf. QC120+ Descriptive and experimental mechanics
- Cf. TA349+ Applied mechanics
- 801 Periodicals, societies, congresses, serial publications
- 801.2 Collected works (nonserial)

- Analytic mechanics -- Continued
- 801.5 Dictionaries and encyclopedias
- 801.6 Philosophy
- 802 History  
Including general history of mechanics
- 803 Newton's Principia and commentaries
- 804 Early works through 1800
- 805 General works, treatises, and advanced textbooks
- 807 Elementary textbooks
- 807.5 Addresses, essays, lectures
- 808 Special aspects of the subject as a whole
- 808.2 Continuum mechanics  
Cf. QC155.7 Fluid dynamics
- 808.5 Relativistic mechanics
- 808.8 Study and teaching
- 809 Problems, exercises, examinations
- 810 Handbooks, tables, formulas, etc.  
Statics  
Cf. TA351 Engineering
- 821 General works, treatises, and textbooks
- 823 Composition and resolution of forces at a point  
Attractions and potential  
Cf. QA404.7+ Potential theory  
Cf. QC570+ Electrostatics
- 825 General works, treatises, and textbooks
- 827 Ellipsoids and other special systems
- 831 Rigid bodies. Forces and couples in three dimensions. Equilibrium
- 835 Chains and flexible surfaces. Catenary
- 839 Geometry of masses. Center of mass. Moments of inertia  
Kinematics  
Including composition of motions and displacements, relative motions, moving axes, theory of screws  
Cf. QA623 Roulettes  
Cf. QC231 Kinematics (Physics)  
Cf. TJ175 Kinematics of machinery
- 841 General works
- 842 Relativistic kinematics  
Dynamics  
Cf. QC133+ Descriptive and experimental mechanics  
Cf. UF820+ Motion of projectiles (Ballistics)
- 843 Periodicals, societies, congresses, serial publications
- 845 General works, treatises, and advanced textbooks
- 846 Elementary textbooks  
Dynamics of a particle  
Cf. QB349+ Celestial mechanics  
Cf. QC174.17.P7 Problem of many bodies (Quantum theory)
- 851 General works, treatises, and textbooks
- 852 Special aspects of the subject as a whole  
Including resistance, friction
- 853 Orbital and constrained motion
- 855 Motion of surfaces  
Rigid dynamics  
General works, treatises, and textbooks
- 861 Special systems, A-Z
- 862.G9 Gyroscope
- 862.P4 Pendulum



- Analytic mechanics
  - Dynamics
    - Rigid dynamics
      - Special systems, A-Z -- Continued
      - 862.P5      Pistons
      - 862.P76     Projectiles
      - 862.T7      Top
      - 863         Miscellaneous special topics
      - Theory of vibrations. Oscillations
        - Cf. QA935+ Vibrations of elastic bodies
      - 865         General works
      - 867         Harmonic motion
      - 867.5       Nonlinear oscillations
      - 871         General methods in dynamics
        - Including Lagrange's equations, Hamilton's equations, least action, stability of systems
    - Mechanics of deformable bodies
      - Fluid mechanics
        - Cf. QC120+ Descriptive and experimental mechanics
        - Cf. TA357+ Applied fluid mechanics
        - 901         General works, treatises, and textbooks
        - 903         Problems, exercises, examinations
        - Hydrostatics
          - 905         General works, treatises, and textbooks
          - 907         Miscellaneous special topics
            - Including floating bodies, etc.
            - Cf. VM761+ Stability of ships
        - Fluid dynamics. Hydrodynamics
          - Cf. TC160+ Hydraulics
          - 911         General works, treatises, and textbooks
          - 912         Relativistic fluid dynamics
          - 913         Kinematics of fluids. Irrotational motions
          - 920         Magnetohydrodynamics. Magnetofluid dynamics
            - Cf. QC717+ Ion flow dynamics
            - Cf. QC718.5.M36 Plasma physics
            - Cf. QC809.M3 Cosmic physics
          - 922         Two-phase flow. Multiphase flow
          - 922.5       Uniform flow
          - 924         Jets and cavities
          - 925         Rotating fluids. Vortex motion
            - Cf. QB410 Rotating masses of gravitating fluid
          - 925.5       Burbles
          - 927         Wave propagation in fluids. Theory of wave motion
            - Cf. QC223 Mathematical theory of sound
          - 929         Viscous fluids
          - 929.5       Non-Newtonian fluids
            - Cf. QC189.5+ Rheology
          - 930         Gas dynamics. Aerodynamics
            - Cf. QC120+ Descriptive and experimental mechanics
            - Cf. TL570+ Aeronautics
        - Elasticity. Plasticity
          - Cf. QC191 Special properties of matter
          - Cf. TA418+ Mechanical properties of materials
          - 931         General works, treatises, and textbooks
          - 932         Micropolar elasticity
          - 933         Thermoelasticity
            - Cf. TA418.24+ Temperature dependent properties of materials

## Analytic mechanics

Elasticity. Plasticity -- Continued

934

Torsion

Vibrations of elastic bodies. Wave propagation in elastic solids

935

General works

937

Impact

939

Surface waves

- Astronomy
- 1 Periodicals, societies, congresses, serial publications  
Museums. Exhibitions
- 2.A1 General works  
2.A2-Z By region or country, A-Z  
Subarrange each country by Table Q5
- 3 Collected works (nonserial)  
Observations  
Including serial collections issued by individual observatories.  
For annual reports see QB82.A+
- 4.A-Z By name of issuing observatory, A-Z  
4.9.A-Z By region or country, A-Z
- 6 Star catalogs  
Including zone observations, etc.  
For catalogs of double stars, multiple stars, binary systems see QB821  
For catalogs of variable stars see QB835  
Ephemerides  
For ephemerides of individual planets, see QB611 QB621 etc.  
For ephemerides of planets collectively see QB603.E6
- 7 Early through 1800  
1801-
- 8.A-Z Nautical and air (or aeronautical) almanacs. By country, A-Z
- 9 Other yearbooks
- General tables
- 11 Early through 1800  
12 1801-
- 14 Dictionaries and encyclopedias  
Communication in astronomy
- 14.2 General works  
14.25 Information services  
14.3 Computer network resources  
Including the Internet
- 14.5 Philosophy
- History
- 15 General works  
Ancient
- 16 General works  
Cf. CE21+ Ancient chronology  
Cf. GN799.A8 Astronomy (Prehistoric archaeology)
- 17 Chinese  
18 Hindu  
19 Assyro-Babylonian, etc.  
Jewish see QB34
- 20 Egyptian  
21 Greek  
22 Roman  
22.2 Celtic  
22.3 Etruscan
- Medieval  
Including Arabic astronomy
- 23 General works  
Astrology
- 25 History  
Cf. BF1671+ Occult sciences
- 26 Medieval works  
Cf. BF1680+ Occult sciences

- History
  - Medieval
    - Astrology -- Continued
    - Modern astrology see BF1651+
  - Modern
    - 28 General works
    - 29 Renaissance through 1700
    - 31 18th century
    - 32 19th-20th centuries
    - 33.A-Z By region or country, A-Z
    - 34 Jewish astronomy
    - Maori astronomy see DU423.A85
    - 34.5 Women in astronomy. Women astronomers
- Biography
  - 35 Collective
  - 36.A-Z Individual, A-Z
    - e.g.
    - 36.B8 Brahe
    - 36.C8 Copernicus
    - 36.G2 Galileo
- Directories
  - 40 Early works through 1700
    - Cf. GA6 Cosmography
    - Cf. VK551 Navigation (Early works)
  - 41 General works, treatises, and advanced textbooks
    - Cf. QB500 Descriptive astronomy
    - 42 1701-1800
    - 43 1801-1969
    - 43.2 1970-2000
    - 43.3 2001-
  - Popular works
    - 44 Through 1969
    - 44.2 1970-2000
    - 44.3 2001-
  - Elementary textbooks
    - 45 To 2000
    - 45.2 2001-
  - Juvenile works
    - Cf. QB63 Stargazers' guides
- 47 Special aspects of the subject as a whole
- 51 Addresses, essays, lectures
  - 51.3.A-Z Special topics, A-Z
    - 51.3.E43 Electronic data processing
    - 51.3.I45 Imaging systems
    - 51.3.L53 Light pollution
    - 51.3.M38 Mathematics
    - Statistical methods see QB149
  - 51.5 Astronomy as a profession. Vocational guidance
- 52 Miscellany and curiosa
- 54 Extraterrestrial life
  - Cf. CB156 Terrestrial, evidence of interplanetary voyages
- (55) Astronomical myths, legends, and superstitions
  - see GR625
- Study and teaching. Research
  - 61 General works
  - 62 Outlines, syllabi

- Study and teaching. Research -- Continued
- 62.5 Problems, exercises, examinations
- 62.7 Laboratory manuals
- 63 Stargazers' guides
- 64 Observers' handbooks  
Cf. TL796.8 Artificial satellites
- 65 Atlases and charts
- 66 Astronomical globes  
Cf. GA12 Manual for globes
- 67 Miscellaneous models
- 68 Pictorial works and atlases  
Planetariums  
Including orreries
- 70 General works
- 71.A-Z By region or country, A-Z  
*Under each country:*  
.x *General works*  
.x2A-.x2Z *Individual planetariums. By city, A-Z*
- Observatories  
Cf. QB479.A2+ Radio observatories  
Cf. QB500.267+ Orbiting astronomical observatories
- 81 General works
- 82.A-Z By region or country, A-Z  
*Under each country:*  
.x *General works*  
.x2A-.x2Z *Individual observatories. By place, A-Z*  
*Including description, history, annual reports, individual named telescopes, etc.*
- 84 Observatory buildings  
Including domes, piers, rising floors, chairs
- Astronomical instruments  
Including description, theory, adjustment
- 84.5 Periodicals, societies, congresses, serial publications  
Biography of instrument makers
- 84.7 Collective
- 84.75.A-Z Individual, A-Z
- 85 Early. Astrolabes, etc.  
Including descriptions of early observatories
- Modern
- 85.8 History
- 86 General works, treatises, and textbooks
- 86.4 Catalogs  
Telescopes. Objectives. Mirrors  
Including homemade telescopes, optics, accessories  
For individual named telescopes in observatories see QB82.A+  
Cf. QB479.2 Radio telescopes  
Cf. QB500.268 Hubble Space Telescope
- 88 General works
- 90 Large astronomical telescopes
- 97 Equatorial mountings. Driving clocks. Siderostats. Heliostats. Coelostats
- 101 Meridian instruments  
Including transit circle, zenith telescope, visual and photographic
- 103 Extra-meridian instruments  
Including altazimuth, almucantar, transit out of meridian, vertical circle

- Astronomical instruments
  - Modern -- Continued
  - 105 Portable instruments
    - Including transit, solar compass
    - Cf. VK583 Sextant
  - 107 Clocks. Chronometers. Chronographs
    - For use of chronograph in ballistics see UF830.C4
  - 111 Eyepieces
  - 113 Micrometers
  - 115 Levels. Artificial horizons. Illumination, etc.
  - 117 Optical interferometers
- Astronomical photography
  - 121 General works
  - 121.5 Equipment and supplies
  - 125 Television in astronomy
  - 126 Video astronomy
  - Electronics in astronomy
    - 127 General works
    - Equipment and supplies
    - 127.2 General works
    - 127.4 Charge coupled devices
  - 135 Astronomical photometry
  - Astronomical spectroscopy see QB465
  - 135.5 Aeronautics in astronomy
    - Including balloons, etc.
  - 136 Space astronomy
    - Including astronautics in astronomy
  - 139 Telegraphic codes for transmission of astronomical data
  - Practical and spherical astronomy
    - Cf. QB66 Use of globes
    - Cf. VK551+ Nautical astronomy
  - 140 Periodicals, societies, congresses, serial publications
  - 143 Dictionaries and encyclopedias
  - 144 Early works through 1800
  - 145 General works, treatises, and textbooks
  - 147 Celestial sphere and coordinates
  - 149 Statistical astronomy
  - Correction and reduction of observations
    - 151 General works, treatises, and textbooks
    - 153 Personal equation
      - Involving apparatus for its determination
    - 154 Errors of adjustment, etc.
    - Reduction to center of earth
      - Refraction
        - 155 Theory and determination of constant
        - 156 Tables
        - 159 Parallax
      - Correction for movement of earth and equinoxes
        - Including determination of constants by observation
    - 161 General works, treatises, and textbooks
    - 163 Aberration
      - Cf. QC671 Electromagnetic theory
    - 165 Precession and nutation
    - 167 Annual parallax
    - 168 Star reduction (from mean to apparent place)
    - 169 Position of pole

- Practical and spherical astronomy -- Continued
- 171 Determination of the ecliptic  
Prediction of eclipses, occultations and transits
- 175 General works
- 185 Miscellaneous phenomena at occultations and transits
- Geodetic astronomy  
Including determination of geographical positions
- 201 General works, treatises, and textbooks  
Observations  
Cf. QB296.A1+ Observations (Geodesy)
- 205.A1 Periodicals, societies, congresses, serial publications
- 205.A2 General works, treatises, and textbooks
- 205.A3-Z By region or country, A-Z  
e.g.  
Mexico
- 205.M6 General works
- 205.M7A-.M7Z Local, A-Z  
United States
- 205.U4-.U5 General works
- 205.U6A-.U6Z By region or state, A-Z
- 205.U7A-.U7Z By city, A-Z
- 207 Azimuth. Determination of meridian  
Time  
For historical chronology, calendar, etc. see CE1+  
Cf. BD638 Cosmology  
Cf. BF468 Psychology  
Cf. GN476.3 Anthropology  
Cf. QC173.59.T5 Time dilatation
- 209 General works
- 209.5 Juvenile works  
Time service
- 210.A1 General works, treatises, and textbooks
- 210.A3-Z By region or country, A-Z
- 211 Sidereal and solar, and their conversion
- 213 Methods of finding the time
- 214 Instruments for measuring the time  
Including hourglasses  
Cf. TS540+ Watches and clocks
- 215 Sundials and dialing
- 216 Sunrise and sunset
- 217 Equation of time
- 221 Time signals, etc.
- 223 Systems and standards
- 224 Prime meridians
- Longitude and latitude
- 224.5 General works, treatises, and textbooks
- 224.7.A-Z By region or country, A-Z  
Longitude  
Methods of determination
- 225 Tables and ephemerides
- 228 Observations
- 229 General works, treatises, and textbooks
- 229.5.A-Z By region or country, A-Z
- Latitude
- 231 Methods of determination
- 233 Tables and ephemerides

- Practical and spherical astronomy
  - Longitude and latitude
    - Latitude -- Continued
      - Observations
        - General works, treatises, and textbooks
        - By region or country, A-Z
        - Variation of latitude
- Geodesy
  - Periodicals, societies, congresses, serial publications
  - Dictionaries and encyclopedias
  - Collected works (nonserial)
  - History
    - General works, treatises, and textbooks
    - Geodesy as a profession. Vocational guidance
    - Mathematical theory of the figure of the earth
      - Cf. QA827 Attractions of ellipsoids
      - Cf. QB331 Isostasy
      - Cf. QB410 Rotating masses of fluid
  - Popular works
  - Juvenile works
  - Addresses, essays, lectures
  - Special arc measures
  - Observations
    - General works, treatises, and textbooks
    - By region or country, A-Z
  - Data processing
  - Biography
    - Collective
    - Individual, A-Z
      - e.g.
        - Hassler
        - Rylke
  - Study and teaching. Research
    - General works
    - By region or country, A-Z
- Geodetic surveying
  - Cf. TA501+ Plane surveying
  - Cf. VK588+ Hydrographic surveying
- General works
- Base measuring
  - Including apparatus
  - Cf. QC101 Standards of length
- Triangulation
  - Cf. TA583 Plane surveying
- Theory and computation. Tables, etc.
  - Cf. QA275 Least squares
- Traverse surveying
  - Cf. TA585 Plane surveying
- Instruments
  - Cf. TA562+ Surveying instruments, methods, etc.
- General works, treatises, and textbooks
- Special, A-Z
  - Geodimeter
  - Prismatic astrolabe
  - Tellurometer
- Gravity determinations



## Geodesy

## Gravity determinations -- Continued

330 Periodicals, societies, congresses, serial publications

331 Theory and description of apparatus. Isostasy  
Cf. QA862.P4 Dynamics of pendulum

## Observations

Including length of seconds, pendulum, etc.

334 General works, treatises, and textbooks

335.A-Z By region or country, A-Z

336 Data processing

## Gravity anomalies

337 General works, treatises, and textbooks

337.5.A-Z By region or country, A-Z

338 Plumbline deflections

339 Disturbances

Including lunar, solar, earth movements

341 Constant of gravitation. Mean density of the earth

343 Satellite geodesy. Artificial satellites in geodesy

Cf. TL798.G4 Geodetic satellites

## Theoretical astronomy and celestial mechanics

Cf. TL1050+ Astrodynamics

349 Periodicals, societies, congresses, serial publications

350 Collected works

350.5 History

351 General works, treatises, and textbooks

353 Addresses, essays, lectures

## Calculation of orbits. Orbit determination

For orbits of individual planets see QB371+

For planetary orbits in general see QB603.M6

355 General works, treatises, and textbooks

355.3 Kepler's laws

355.5 Kepler's equation

357 Comets (General)

For orbits of individual comets see QB723.A+

## Perturbations

## Planetary theory

361 General works, treatises, and textbooks

361.9 Special aspects of the subject as a whole

362.A-Z Special topics, A-Z

362.F47 Few-body problem

362.M3 Many body problem

362.T5 Three body problem

362.T9 Two body problem

369 Tables and observations

## Individual planets

Including tables and orbits

371 Mercury

372 Venus

374 Sun's apparent motion

376 Mars

## Asteroids. Minor planets

377 General works, treatises, and textbooks

## Individual

378.A-Z By name, A-Z

379 By number, if unnamed

384 Jupiter and Saturn

- Theoretical astronomy and celestial mechanics
- Perturbations
    - Planetary theory
      - Individual planets -- Continued
        - 387 Uranus
        - 388 Neptune
        - 389 Ultra-Neptunian planets
      - Lunar theory
        - 391 General works, treatises, and textbooks
        - 391.9 Special aspects of the subject as a whole
        - 392.A-Z Special topics, A-Z
          - 392.C3 Capture of the moon by the earth
          - 392.I5 Inequalities of the moon's motion
          - 392.O3 Occultations of stars
        - 397 Observations
        - 399 Tables, charts, diagrams, etc.
      - Satellites
        - Including individual planetary satellites
        - Cf. QB603.R55 Planetary rings
        - Cf. TL796+ Artificial satellites
    - 401 General works, treatises, and textbooks
    - 401.5 Juvenile works
    - 403 Satellites of Mars
    - 404 Satellites of Jupiter
    - 405 Satellites and ring system of Saturn
    - 406 Satellites of Uranus
    - 407 Satellites and ring system of Neptune
    - 408 Satellites of Pluto
    - 410 Figures of equilibrium of rotating masses of fluid
    - Theory of tides
      - Cf. GC300+ Oceanography
      - Cf. QC809.E2 Earth tides
      - Cf. VK600+ Tidetables
    - 414 Early works through 1800
      - General works, treatises, and textbooks
        - 415 1801-1969
        - 415.2 1970-
      - 416 Special aspects of the subject as a whole
      - 418 Dictionaries and encyclopedias
      - 419 Miscellany and curiosa
      - Instruments see GC306
    - 421 Theory of double star systems
    - Cosmochemistry
      - 450 General works
      - 450.5 Cosmic abundance
    - Astrogeology
      - Cf. QB592 Lunar geology
      - Cf. QB603.G46 Planetary geology
    - Biography
      - 454 Collective
        - 454.2.A-Z Individual, A-Z
      - 455 General works
      - 455.2 Astromineralogy
      - 455.5 Extraterrestrial seismology
        - Cf. QB539.I5 Helioseismology
        - Cf. QB812 Astroseismology

- 456 Astrogeology -- Continued
  - Multiring basins
- 460 Astrophysics (General)
  - Periodicals, societies, congresses, serial publications
- 460.15 Collected works (nonserial)
  - Biography
    - 460.7 Collective
    - 460.72.A-Z Individual, A-Z
  - 461 General works, treatises, and textbooks
  - 461.3 Popular works
  - 461.5 Addresses, essays, lectures
  - 462.2 Data processing
  - 462.3 Mathematics
  - 462.5 Radio astrophysics
  - 462.6 Molecular astrophysics
  - 462.65 Relativistic astrophysics
  - Plasma astrophysics
    - 462.7 General works
    - 462.72 Double layers
  - 462.8 Cosmic magnetic fields
  - Nuclear astrophysics
    - 463 Periodicals, societies, congresses, serial publications
    - 463.15 Collected works (nonserial)
    - 464 General works, treatises, and textbooks
    - 464.15 Particle acceleration
    - 464.2 Neutrino astrophysics
    - 464.3 Nucleosynthesis
    - 464.4 Radiative capture
  - 465 Astronomical spectroscopy
    - Cf. QB551 Spectroscopy of sun and eclipses
    - Cf. QB870+ Stellar spectroscopy
- 466.A-Z Other topics, A-Z
  - 466.A25 Accretion
  - 466.C45 Chaotic behavior in systems
  - 466.C64 Collisions
  - 466.C65 Compact objects
  - 466.C66 Controlled fusion
  - 466.C67 Cosmochronology
  - 466.D58 Disks
  - 466.E65 Equations of state
  - 466.F58 Fluid dynamics
  - 466.G38 Gas dynamics
  - 466.J46 Jets
  - 466.M37 Mass loss
  - 466.P67 Positronium
- Non-optical methods of astronomy
  - 468 General works
  - Infrared astronomy
    - 470.A1 Periodicals, societies, congresses, serial publications
    - 470.A5-Z General works, treatises, and textbooks
  - Gamma ray astronomy
    - 471.A1 Periodicals, societies, congresses, serial publications
    - 471.A5-Z General works, treatises, and textbooks
    - 471.7.A-Z Special topics, A-Z
      - 471.7.B85 Bursts
  - X-ray astronomy

- Non-optical methods of astronomy  
 X-ray astronomy -- Continued
- 472.A1 Periodicals, societies, congresses, serial publications  
 472.A5-Z General works, treatises, and textbooks  
 472.5 Juvenile works  
 473 Addresses, essays, lectures  
 474 Ultraviolet astronomy
- Radio astronomy  
 Cf. QB860 Quasars
- 475.A1 Periodicals, societies, congresses, serial publications  
 475.A15 Collected works (nonserial)  
 475.A2 Dictionaries and encyclopedias  
 History  
 475.A25 General works  
 475.A28A-.A28Z By region or country, A-Z  
 476.5 General works, treatises, and advanced textbooks  
 477 Popular works  
 478 Juvenile works  
 478.5 Addresses, essays, lectures  
 Observatories  
 479.A2 General works  
 479.A5-Z By region or country, A-Z  
*Under each country:*  
 .x *General works*  
 .x2A-.x2Z *Individual observatories. By name, A-Z*
- 479.2 Radio telescopes  
 479.3 Radio interferometers  
 479.4 Millimeter astronomy  
 Radio sources  
 479.5 General works  
 479.55.A-Z Individual radio sources or types of radio sources, A-Z  
 479.55.C93 Cygnus A  
 479.55.H68 Hot spots  
 479.55.M18 M87 (Galaxy)  
 479.55.R34 Radio Galaxies  
 479.55.S88 Superluminal
- 480 Radar in astronomy
- Descriptive astronomy  
 Periodicals, societies, congresses, serial publications see QB1  
 General works, treatises, and textbooks see QB42+  
 Universe. Space. Space sciences  
 Cf. QB980+ Cosmology  
 Cf. TL787+ Astronautics. Space travel
- 495 Periodicals, societies, congresses, serial publications  
 496 Collected works  
 497 Dictionaries and encyclopedias  
 497.2 Communication in space sciences  
 History  
 498 General works  
 498.2.A-Z By region or country, A-Z  
 500 General works, treatises, and advanced textbooks  
 500.22 Juvenile works  
 500.24 Addresses, essays, lectures  
 500.25 Special aspects of the subject as a whole  
 500.26.A-Z Special topics, A-Z  
 500.26.D38 Data processing

- Descriptive astronomy
  - Universe. Space. Space sciences
    - Special topics, A-Z -- Continued
      - 500.26.I58 International cooperation
      - 500.26.S67 Space optics
    - Study and teaching. Research
      - Including exploration of outer space
    - 500.262 General works
    - 500.264 Experiments
    - 500.266.A-Z By region or country, A-Z
    - Orbiting astronomical observatories
      - 500.267 General works
      - 500.268 Hubble Space Telescope
      - 500.269 Next Generation Space Telescope
    - 500.28 Northern sky
    - 500.3 Southern sky
    - Solar system
      - 500.5 Periodicals, societies, congresses, serial publications
      - 501 General works, treatises, and textbooks
      - 501.2 Popular works
      - 501.3 Juvenile works
      - 501.5 Study and teaching. Research
      - 502 Miscellany and curiosa
      - 503 Age of solar system. Origin of solar system
      - 505 Physical conditions
        - Including atmospheres, resisting medium, etc.
      - 507 Proper motion in space
      - Solar parallax and related constants
      - 508 General works
        - Transit of Venus
          - 509 General works, treatises, and textbooks
          - 509.5 1639 transit
          - 511 1761 and 1769 transits
          - 512 1874 transit
          - 513 1882 transit
          - 513.2 2004 transit
        - 515 Transit of Mercury
        - 516 Observations of Mars and asteroids
        - 518 Other methods
      - Sun
        - 520 Periodicals, societies, congresses, serial publications
        - 521 General works, treatises, and textbooks
        - 521.4 Popular works
        - 521.5 Juvenile works
        - 521.6 Addresses, essays, lectures
        - 522 Tables, etc.
          - Cf. QB374 Perturbations
        - 523 Mass, diameter, rotation, etc.
        - Solar activity
          - 524 General works
          - 525 Sunspots
            - Cf. BF1729.S92 Astrology
        - 526.A-Z Other special topics, A-Z
          - 526.A37 Active regions
          - 526.C9 Cycles
          - Energetic particles see QB526.S65

## Descriptive astronomy

## Solar system

## Sun

## Solar activity

## Other special topics, A-Z -- Continued

526.F3

Faculae

526.F6

Flares

526.F64

Floculi. Plages

Plages see QB526.F64

526.P7

Prominences

526.S65

Solar energetic particles

528

Atmosphere, chromosphere

Corona. Solar wind. Heliosphere

529

General works

529.5

Coronal holes

529.6

Corotating interaction regions

531

Radiation, temperature, etc.

Cf. QC910.2+ Solar radiation in meteorology

539.A-Z

Other special topics, A-Z

539.C6

Composition

539.E4

Electric field

539.E8

Evolution

539.G7

Granulation

Helioseismology see QB539.I5

539.I5

Interior

Including helioseismology

539.M23

Magnetic fields

539.N6

Noise storms

539.N8

Nuclear reactions

539.O83

Oscillations

539.P58

Polarimetry

539.R3

Radio effects

Seismology see QB539.I5

539.S5

Size

539.S65

Solar neutrinos

539.S655

Solar x-rays

539.T4

Terrestrial-solar relations

540

Miscellany and curiosa

Solar eclipses

Including works on solar and lunar eclipses combined

Cf. BL325.E35 Eclipses (Mythology)

541

General works, treatises, and textbooks

541.5

Juvenile works

542

Through 1799

Class here works on individual solar eclipses occurring through 1799, as well as works discussing collectively eclipses in that time period

1800-

542.5

Collective

Individual

543

1800-1899

Complete by appending a decimal point and the last two digits of the year of the eclipse to QB543 followed by author number and date of publication, e. g. QB543.98.I53 1899, Indian eclipse, 1898; report of the expeditions, c1899

- Descriptive astronomy
  - Solar system
    - Sun
      - Solar eclipses
        - 1800-
          - Individual -- Continued
            - 544 1900-1999
              - Complete by appending a decimal point and the last two digits of the year of the eclipse to QB544 followed by author number and date of publication, e. g. QB544.91.R36 1989, Rao Joe. Your guide to the great solar eclipse of 1991, c1989
            - 545 2000-2099
              - Complete by appending a decimal point and the last two digits of the year of the eclipse to QB545 followed by author number and date of publication
    - Spectroscopy of sun and eclipses
    - Lunar eclipses
    - Moon
      - 580 Periodicals, societies, congresses, serial publications
      - 581 General works, treatises, and textbooks
      - 581.9 Popular works
      - 582 Juvenile works
      - 582.3 Study and teaching. Research
      - 582.5 Exploration
        - Cf. TL799.M6 Space flights to the moon
      - 583 Distance, parallax
      - 585 Rotation, libration, and shape
      - 588 Temperature, radiation, brightness, phases
      - 591 Surface, physical condition, meteorology
      - 592 Lunar geology. Lunar petrology
        - Cf. TN291.35 Lunar mining
      - 595 Photographs, maps, drawings
    - Planets. Planetology
      - Cf. QB54 Extraterrestrial life
      - Cf. QB401+ Satellites
      - Cf. QB500.5+ Solar system
      - Cf. QB820 Extrasolar planets
      - Cf. TL799.A+ Flights to special planets
    - 600 Periodicals, societies, congresses, serial publications
    - 600.2 Dictionaries and encyclopedias
    - Communication of planetological information
      - 600.3 General works
      - 600.32 Information services
      - 600.33 Geographic information systems
      - 600.34 Computer network resources
        - Including the Internet
      - 600.35 Planetological literature
    - 600.5 Nomenclature, terminology, names
    - 601 General works, treatises, and textbooks
    - 601.9 Popular works
    - 602 Juvenile works
    - 602.9 Special aspects of the subject as a whole
    - 602.95 Data processing
    - 603.A-Z Special topics, A-Z
      - 603.A85 Atmospheres
        - Including meteorology
      - 603.C6 Composition
      - 603.C7 Cratering

- Descriptive astronomy
  - Solar system
    - Planets. Planetology
      - Special topics, A-Z -- Continued
        - 603.C78 Crust
        - 603.E6 Ephemerides
        - 603.F5 Figures
        - 603.G46 Geology
          - Cf. TN291.3+ Space mining
        - 603.I52 Infrared radiation
        - 603.I53 Internal structure
        - 603.I55 Interplanetary medium
          - Including interplanetary dust
        - 603.I57 Ionospheres
        - 603.M26 Magnetic fields
        - 603.M3 Mass
        - Meteorology see QB603.A85
        - 603.M6 Motion
          - Including orbits
          - For orbits of individual planets see QB371+
        - 603.O74 Origin
        - 603.R3 Radiation
        - 603.R55 Rings
          - Cf. QB405 Ring system of Saturn
          - Cf. QB407 Ring system of Neptune
        - 603.S6 Spectroscopy
        - 603.S95 Surfaces
        - 603.V65 Volcanism
        - 604 Tables, etc.
        - 605 Photographs, maps, drawings
        - 605.2 Miscellany and curiosa
        - Inferior planets
          - 606 General works
          - 607 Intramercurial planets
          - Mercury
            - 611 General works
            - 613.A-Z Special topics, A-Z
            - 613.G46 Geology
              - Transit of Mercury see QB515
          - Venus
            - 621 General works
            - 623.A-Z Special topics, A-Z
              - 623.A86 Atmosphere
              - 623.G46 Geology
              - 623.M48 Meteorology
                - Transit of Venus see QB509+
              - 623.V65 Volcanism. Volcanoes
              - 623.W56 Winds
    - Earth as a planet. Astronomical geography
      - Cf. QE500+ Geology
      - 630 Periodicals, societies, congresses, serial collections
      - 631 General works, treatises, and textbooks
      - 631.2 Popular works
      - 631.4 Juvenile works
      - 632 Origin
      - 633 Rotation



## Descriptive astronomy

## Solar system

## Planets. Planetology

## Earth as a planet. Astronomical geography -- Continued

637

Photographs from space

Seasons

Cf. GR930 Folklore

637.2

General works, treatises, and textbooks

637.4

Juvenile literature

637.5

Spring

637.6

Summer

637.7

Autumn

637.8

Winter

638

Miscellany and curiosa

638.8

End of the world

## Superior planets

Including other objects beyond Earth

For their satellites, see QB403+

639

General works

## Mars

641

General works

643.A-Z

Special topics, A-Z

643.A86

Atmosphere

643.C55

Climate

643.D87

Dust storms

643.G46

Geology

643.G73

Gravity

643.M48

Meteorology

Satellites see QB403

643.S42

Seasons

643.V65

Volcanism. Volcanoes

643.W38

Water

643.W56

Wind erosion

## Asteroids

651

General works

653.A-Z

Individual asteroids, A-Z

## Outer planets

659

General works

## Jupiter

661

General works

663.A-Z

Special topics, A-Z

663.A86

Atmosphere

Satellites see QB404

## Saturn

671

General works

673.A-Z

Special topics, A-Z

Ring system see QB405

Satellites see QB405

## Uranus

681

General works

683.A-Z

Special topics, A-Z

Satellites see QB406

## Neptune

691

General works

693.A-Z

Special topics, A-Z

Ring system see QB407

- Descriptive astronomy
  - Solar system
    - Planets. Planetology
      - Superior planets
        - Outer planets
          - Neptune
            - Special topics, A-Z
              - Satellites see QB407
    - Trans-Neptunian objects
      - Cf. QB701+ Pluto
  - 694 General works
    - 695 Kuiper Belt
  - Dwarf planets
    - 698 General works
  - Pluto
    - 701 General works
    - 703.A-Z Special topics, A-Z
      - Satellites see QB408
  - 705 Ceres
- Comets
  - Cf. QB357 Calculation of orbits
  - 717 Periodicals, societies, congresses, serial publications
  - 721 General works, treatises, and textbooks
  - 721.4 Popular works
  - 721.5 Juvenile works
  - 721.6 Addresses, essays, lectures
  - 722 Catalogs
  - 723.A-Z Periodic comets. By name, A-Z
    - (723.A7) Arrest's comet
      - see QB723.D37
    - 723.B5 Biela comet
    - 723.B7 Brooks comet
    - 723.B8 Brorsen comet (I)
    - 723.C6 Comas Sola comet
    - 723.D37 D'Arrest comet
    - 723.D45 Delavan comet
    - 723.D5 Denning comet
    - 723.E3 Encke comet
    - 723.F2 Faye comet
    - 723.G43 Geddes comet
    - 723.H17 Hale-Bopp comet
    - 723.H2 Halley's comet
    - 723.H7 Holmes comet
    - 723.L6 Lexell comet
    - 723.M67 Morehouse comet
    - 723.S56 Shoemaker-Levy 9 comet
    - 723.T3 Tempel 1 comet
    - 723.T8 Tuttle comet
    - 723.V35 Van Biesbroeck comet
  - 724 Comets before 1700
  - 725 1700-1799
    - Complete by appending a decimal point and the last two digits of the year of the appearance of the comet to QB725 followed by author number and date of publication

## Descriptive astronomy

## Solar system

## Comets -- Continued

- 726 1800-1899  
Complete by appending a decimal point and the last two digits of the year of the appearance of the comet to QB726 followed by author number and date of publication, e.g. QB726.61.K8, Kreutz, Heinrich, Untersuchungen über die Bahn des grossen Kometen von 1861
- 727 1900-1999  
Complete by appending a decimal point and the last two digits of the year of the appearance of the comet to QB727 followed by author number and date of publication
- 728 2000-2099  
Complete by appending a decimal point and the last two digits of the year of the appearance of the comet to QB728 followed by author number and date of publication
- 729 Distribution of comets
- 731 Nature and constitution (before the spectroscope)
- 732 Nature and constitution (modern views)
- 738 Meteoroids
- Meteors
- 740 Periodicals, societies, congresses, serial publications
- 741 General works, treatises, and textbooks
- 741.5 Juvenile works
- 743 Methods of observation and geometrical topics  
Including radiant, altitude, etc.
- Periodic showers
- 745 November
- 746 August
- 748 Orbits
- 748.2 Streams
- Relation between meteors and comets
- 749 General works
- 751 Other theories of the origin of meteors
- 753 Remarkable meteors, fireballs
- Meteorites
- Including craters
- Cf. QE399 Tektites
- 754.8 Periodicals, societies, congresses, serial publications
- 755 General works, treatises, and textbooks
- 755.2 Juvenile literature
- 755.3 Addresses, essays, lectures
- 755.5.A-Z By region or country, A-Z
- 756.A-Z Individual meteorites and craters, A-Z
- 756.A44 Allende meteorite
- 756.C45 Chinguetti meteorite
- 756.F47 Fermo meteorite
- 756.J43 Jibal Waqf as Sawwan Crater
- 756.K87 Kurinelli meteorite
- 756.M4 Meteor Crater (Ariz.)
- 756.O74 Orgueil meteorite
- 756.P67 Port Orford meteorite
- 756.S5 Sikhote-Alin meteorite
- 756.T58 Thuathe meteorite
- 756.T8 Tunguska meteorite
- 756.V74 Vredefort Dome (South Africa)
- Meteorite types or classes
- Iron meteorites. Siderites

- Descriptive astronomy
  - Solar system
    - Meteorites
      - Meteorite types or classes
        - Iron meteorites. Siderites -- Continued
          - 757 General works, treatises, and textbooks
          - 757.5.A-Z Special, A-Z
          - 757.5.A73 Ataxites
          - 757.5.H49 Hexahedrites
          - 757.5.O37 Octahedrites
        - Stony meteorites. Aerolites
          - 758 General works, treatises, and textbooks
          - 758.5.A-Z Special, A-Z
          - 758.5.A47 Achondrites
          - 758.5.C46 Chondrites
        - 759 Stony-iron meteorites. Siderolites. Intermediates
      - Zodiacal light. Counterglow. Gegenschein
      - 761 Spectroscopy of moon, planets, comets, etc.
      - 770 Moon
      - 775 Planets
      - 780 Comets
      - 785 Meteors
    - Interstellar matter
      - 790 General works
      - 791 Cosmic dust
      - 791.2 Cosmic grains
      - 791.3 Dark matter
      - 791.35 Missing mass
      - 791.4 Molecular clouds
      - 791.5 Interstellar hydrogen
      - 791.7 Interstellar magnetic fields
      - 792 Circumstellar matter
    - Stars
      - Cf. QB6 Star catalogs
      - Cf. QB870+ Stellar spectroscopy
      - 799 Periodicals, societies, congresses, serial publications
      - 801 General works, treatises, and textbooks
      - 801.6 Popular works
      - 801.7 Juvenile works
      - 801.8 Addresses, essays, lectures
      - 802 Constellation figures. Star names
        - Cf. QB63 Stargazers' guides
      - 803 Zodiac
        - Including individual constellations of the zodiac
      - 805 Particular stars (not A-Z)
        - Cf. QB823 Particular double and multiple stars
        - Cf. QB837 Particular variable stars
        - Cf. QB883 Spectra of special stars
      - 806 Stellar evolution
      - 806.5 Starbursts
      - 807 Astrometry
        - Cf. QB135 Astronomical photometry
      - 808 Structure
      - 809 Atmospheres
      - Motion
        - Including orbits, velocities, dynamics

## Descriptive astronomy

## Stars

## Motion -- Continued

- 810           General works
- 811           Proper motion
- 812           Stellar oscillations. Astroseismology
- 813           Parallax and distance
- 814           Masses
- 815           Magnitudes. Photometric catalogs
- 816           Color
  - Cf. QB829 Color of double stars
- 817           Radiation. Bolometry
- 817.5        Magnetic fields
- 818           Stellar diameters
- 818.5        Stellar collisions
  - Including stellar mergers
- 819           Distribution
  - Including stellar populations
- 820           Extrasolar planets
- Double and multiple stars. Binary systems
  - Cf. QB421 Theory
  - Cf. QB903 Spectroscopy
- 821           General works, treatises, and textbooks
  - Including observations, catalogs
- 823           Particular stars (not A-Z)
- 829           Colors of double stars
- 830           X-ray binaries
- Variable stars. Algol systems
  - Cf. QB895 Spectroscopy
- 833           Periodicals, societies, congresses, serial publications
- 835           General works, treatises, and textbooks
  - Including observations, catalogs
- 835.2        Addresses, essays, lectures
- 836           Magnitude. Photometric catalogs
- 837           Particular stars or clusters (not A-Z)
- 837.5        Cataclysmic variable stars
- 838           Pulsating stars
- 841           Temporary or new stars
- 843.A-Z      Other particular types of stars, A-Z
  - 843.A12     A stars
  - 843.A89     Asymptotic giant branch stars
  - 843.B12     B stars
  - 843.B25     Be stars
  - 843.B55     Black holes
  - 843.B57     Blue stragglers
  - 843.B75     Brightest stars
  - 843.B77     Brown dwarfs
  - 843.C6      Cool stars
  - Coronae Borealis stars R see QB843.R12
  - 843.D44     Delta Scuti stars
  - 843.D85     Dwarf novae
  - 843.D9      Dwarf stars
  - 843.E2      Early stars
  - 843.F55     Flare stars
  - 843.L85     Luminous blue variables
  - 843.M16     M stars

## Descriptive astronomy

## Stars

## Other particular types of stars, A-Z -- Continued

843.M3 Magnetic stars  
 843.N12 N stars  
 843.N4 Neutron stars  
 843.O12 O stars  
 843.P42 Peculiar stars  
 843.P8 Pulsars  
 843.R12 R Coronae Borealis stars  
 843.R17 R Scuti stars  
 843.R4 Red dwarfs  
 843.R42 Red giants  
 843.R72 RR Lyrae stars  
 843.S53 Shell stars  
 843.S85 Subgiant stars  
 843.S9 Supergiant stars  
 843.S94 Supermassive stars  
 843.S95 Supernovae  
 843.S96 Symbiotic stars  
 843.T12 T Tauri stars  
 843.W5 White dwarfs  
 843.W6 Wolf-Rayet stars

## Clusters and nebulae

Cf. QB891 Spectroscopy

851 General works, treatises, and textbooks  
 Including observations, catalogs

## Clusters

853 General works  
 853.5 Globular clusters

## Nebulae

855 General works  
 855.2 Juvenile works  
 855.5 Planetary nebulae  
 Including proto-planetary nebulae  
 855.55 Gaseous nebulae  
 Including Herbig-Haro objects  
 855.9.A-Z Individual. By name, A-Z  
 855.9.C7 Crab Nebula  
 855.9.H67 Horsehead Nebula  
 855.9.O75 Orion Nebula

## Galaxies

856 Periodicals, societies, congresses, serial publications  
 857 General works  
 857.3 Juvenile works  
 857.5.A-Z Special topics, A-Z  
 857.5.B84 Bulges  
 Collisions see QB857.5.M47  
 857.5.D37 Data processing  
 857.5.E96 Evolution  
 857.5.E97 Extragalactic distances  
 857.5.G7 Gravitational lenses  
 Including microlensing  
 857.5.H34 Halos  
 857.5.M34 Magnetic fields  
 857.5.M47 Mergers. Collisions

## Descriptive astronomy

## Stars

## Galaxies

Special topics, A-Z -- Continued

857.5.M67

Motion in the line of sight

Radio galaxies see QB479.55.R34

857.5.S87

Surface brightness

Milky Way galaxy

857.7

General works

857.72

Galactic center

858

Dwarf galaxies

Active galaxies

Including active galactic nuclei

858.3

General works

858.35

BL Lacertae objects

858.4

Elliptical galaxies

858.42

Spiral galaxies

858.5.A-Z

Other galaxies. By name, A-Z

858.5.M33

Magellanic Clouds

Clusters of galaxies

858.7

General works

858.8.A-Z

Individual. By name, A-Z

858.8.L63

Local Group

Cf. QB857.7+ Milky Way

858.8.V57

Virgo Cluster

860

## Quasars

## Stellar spectroscopy

870

Periodicals, societies, congresses, serial collections

871

General works, treatises, and textbooks

873

Instruments and apparatus

875

Chemical and physical constitution

881

Classification of stars

Including classed catalogs

883

Study of special types of spectra

Including the spectra of special stars

891

Nebulae and clusters

895

Variables and new stars

901

Motion in the line of sight. Radial velocities

903

Spectroscopic observations on double stars

## Cosmogony. Cosmology

Including nebular hypothesis, meteoritic hypothesis, glacial cosmogony

Cf. BD493+ Speculative philosophy

Cf. QB503 Origin of solar system

980

Periodicals, societies, congresses, serial publications

980.5

Dictionaries and encyclopedias

981

General works, treatises, and textbooks

982

Popular works

983

Juvenile works

985

Addresses, essays, lectures

991.A-Z

Special topics, A-Z

991.B54

Big bang theory

991.C64

Cosmic background radiation

Including cosmic ripples

991.C65

Cosmic rotation

991.C658

Cosmological constants

991.C66

Cosmological distances

Cosmogony. Cosmology  
Special topics, A-Z -- Continued

991.C87	Curvature cosmology
991.C92	Cyclic universe theory
991.E53	End of the universe
991.E94	Expanding universe
991.G73	Great Attractor
991.I54	Inflationary universe
991.L37	Large scale structure
991.N34	Naked singularities
991.P45	Phase transformations
991.Q36	Quantum cosmology
991.S73	Statistical methods
991.T67	Topological defects



## Physics

- Cf. QH505 Biophysics
- Cf. R895+ Medical physics
- Cf. S588.4+ Agricultural physics
- 1 Periodicals, societies, congresses, serial publications
- 3 Collected works (nonserial)
- 5 Dictionaries and encyclopedias
- Communication in physics
- 5.3 General works
- 5.35 Information services
- 5.4 Computer network resources
  - Including the Internet
- 5.45 Physics literature
- 5.5 Abstracting and indexing
- 5.52 Language. Authorship
- Philosophy. Methodology
  - For relativity physics see QC173.5+
  - For unified field theories see QC173.68+
- 5.56 Periodicals, societies, congresses, serial publications
- 5.58 Collected works (nonserial)
- 6 General works, treatises, and textbooks
- 6.2 Addresses, essays, lectures
- 6.4.A-Z Special topics, A-Z
  - 6.4.A27 Absolute, The
  - 6.4.A85 Asian philosophy
  - 6.4.C3 Causality
  - 6.4.C56 Coherent state
  - 6.4.C57 Consciousness
  - 6.4.C58 Constraints
  - 6.4.C6 Continuity. Continuum
  - 6.4.D46 Determinism
    - Cf. QC174.17.H4 Heisenberg principle
  - 6.4.D5 Dialectical materialism
  - 6.4.D8 Dualism
  - 6.4.F58 Fluctuations
  - 6.4.I34 Identity (Philosophical concept)
  - 6.4.P37 Paradox
  - 6.4.R42 Reality
  - 6.4.R43 Reductionism
- 6.8 Nomenclature, terminology, notation, abbreviations
- History
- 6.9 Periodicals, societies, congresses, serial publications
- 7 General works
- 7.5 Addresses, essays, lectures
- 9.A-Z By region or country, A-Z
- 14 Women in physics. Women physicists
  - For biography see QC15+
- Biography
- 15 Collective
- 16.A-Z Individual, A-Z
  - e.g.
  - Curie, Marie and Pierre see QD22.C8
- 16.E5 Einstein
- 16.N7 Newton
- 16.2 Directories
- Early works

- Early works -- Continued
- 17 1501-1700
- 19 1701-1800
- Mathematical physics
- For mathematical theory without practical applications see QA401+
- Cf. QC173.96+ Quantum theory
- Cf. TA329+ Engineering mathematics
- 19.2 Periodicals, societies, congresses, serial publications
- 19.3 Collected works (nonserial)
- History
- 19.6 General works
- 19.7.A-Z By region or country, A-Z
- 20 General works, treatises, and textbooks
- 20.5 Addresses, essays, lectures
- 20.6 Special aspects of the subject as a whole
- 20.7.A-Z Special topics, A-Z
- 20.7.A34 Adiabatic invariants
- 20.7.A37 Algebraic geometry
- 20.7.A4 Algebraic logic
- 20.7.A5 Analysis
- Cf. QA401+ Analytical methods for physical problems
- 20.7.A85 Asymptotic theory
- 20.7.B38 Bayesian statistical decision theory
- 20.7.B47 Bethe-ansatz technique
- 20.7.B54 Bifurcation theory
- 20.7.B58 Bose algebras
- 20.7.B6 Boundary value problems
- 20.7.C14 C\*-algebras
- 20.7.C28 Calculus of tensors
- 20.7.C3 Calculus of variations
- 20.7.C36 Catastrophes
- 20.7.C55 Clifford algebras
- 20.7.C58 Combinatorial analysis
- 20.7.C6 Correlation
- 20.7.C63 Coupled problems
- 20.7.D4 Decomposition method
- 20.7.D43 Density functionals
- 20.7.D45 Determinants
- 20.7.D47 Difference equations
- 20.7.D5 Differential equations
- 20.7.D516 Differential games
- 20.7.D52 Differential geometry
- Including noncommutative differential geometry
- 20.7.D55 Dimensional analysis
- 20.7.E4 Electronic data processing
- 20.7.E48 Embedding theorems
- 20.7.E88 Evolution equations
- Cf. QA377.3 Differential equations
- 20.7.F56 Finite element method
- 20.7.F67 Fourier transformations
- 20.7.F73 Fractals
- 20.7.F84 Functional analysis
- 20.7.F85 Functional integration
- 20.7.F87 Functions, Special
- 20.7.G44 Geometry
- 20.7.G55 Global analysis

## Mathematical physics

## Special topics, A-Z -- Continued

- 20.7.G7 Graph theory
- 20.7.G76 Group theory
  - Cf. QC174.17.G7 Group theoretical methods for quantum mechanical problems
- 20.7.H35 Hamiltonian systems
- 20.7.H63 Homogeneous spaces
- 20.7.H65 Homology and cohomology theories
- 20.7.I33 Idempotents
- 20.7.I58 Integral equations
- 20.7.K47 Kernel functions
- 20.7.K56 Knot polynomials
- 20.7.L54 Lie algebras. Lie-admissible algebras
- 20.7.M24 Manifolds
- 20.7.M27 Mathematical optimization
- 20.7.M3 Matrix theory
  - Cf. QC174.3+ Matrix mechanics
  - Cf. QC793.3.M36 Elementary particle physics
- 20.7.M43 Measure theory
  - Cf. QC174.17.M4 Quantum theory
- 20.7.M53 Microlocal analysis
- 20.7.M65 Monte Carlo method
- 20.7.N58 Nonassociative algebras
- Noncommutative differential geometry see QC20.7.D52
- 20.7.N6 Nonlinear theories
- 20.7.N86 Numerical analysis
- 20.7.O65 Operator algebras
- 20.7.O66 Operator theory
- 20.7.O75 Orthogonal functions and polynomials
- 20.7.P23 p-adic analysis
- 20.7.P3 Padé approximant
- 20.7.P47 Perturbation
- 20.7.P67 Potential theory
- 20.7.P7 Probabilities
- 20.7.R38 Relational calculus
- 20.7.R4 Relaxation methods
- 20.7.R43 Renormalization
- 20.7.S3 Scattering theory
- 20.7.S54 Singularities
- Special functions see QC20.7.F87
- 20.7.S64 Spectral theory
- 20.7.S645 Spherical harmonics
- 20.7.S65 Spinor analysis
- 20.7.S68 Stability
- 20.7.S73 Standards
- 20.7.S8 Stochastic processes
- Tensor analysis see QC20.7.C28
- 20.7.T45 Theory of distributions
- 20.7.T65 Topology
- 20.7.T73 Transport theory
- 20.7.V4 Vector analysis
- 20.7.W38 Wavelets
- 20.7.W53 WKB approximation
- 20.7.Z47 Zeta functions
- 20.8 Study and teaching. Research
  - General works

- Mathematical physics
  - Study and teaching. Research -- Continued
    - 20.815.A-Z By region or country, A-Z
    - 20.82 Problems, exercises, examinations
    - 20.85 Handbooks, tables, formulas, etc.
  - General works, treatises, and advanced textbooks
    - 21 1801-1969
    - 21.2 1970-2000
    - 21.3 2001-
  - Elementary textbooks
    - 23 To 2000
    - 23.2 2001-
  - 24 Pictorial works and atlases
  - 24.5 Popular works
  - 25 Juvenile works
  - 26 Recreations, home experiments, etc.
  - 27 Anecdotes, facetiae, satire, etc.
  - Addresses, essays, lectures see QC71
  - 28 Special aspects of the subject as a whole
  - 29 Physics as a profession. Vocational guidance
  - Study and teaching. Research
    - For programmed texts see QC21+
  - 30 General works
  - 31 Outlines, syllabi
  - 32 Problems, exercises, examinations
  - 33 Experiments
    - Cf. QC26 Home experiments
  - Laboratory manuals
    - Elementary
      - 35 General works
      - 36 Laboratory blanks
      - 37 Advanced
    - 39 Physical measurements (General)
      - Including theory and methods
      - Cf. QC81+ Weights and measures
      - Cf. T50 Technical measurement
  - 39.5 Juvenile works
  - 41 Laboratory technique
    - By region or country
      - United States
        - 44 General works
      - 45.A-Z By region or state, A-Z
        - Subarrange each state by Table Q7
      - 47.A-Z Other regions or countries, A-Z
        - Subarrange each country by Table Q7
    - 48 Developing countries
  - Laboratories
    - Cf. QC100.A2+ Standardizing bureaus
    - Cf. QC541.A1+ Electric laboratories
  - 51.A1 General works
  - 51.A3-Z By region or country, A-Z
    - Subarrange each country by Table Q6
  - 52 Data processing

- Instruments and apparatus (General)  
 For instruments of special fields, see the field  
 Cf. QC100.5+ Weights and measures  
 Cf. QC101+ Instruments for measurement of length, area, weight, etc.  
 Cf. QC370.5+ Optical instruments  
 Cf. QC875.5+ Meteorological instruments
- 53 General works  
 55 Juvenile works
- Museums. Exhibitions  
 60.A1 General works  
 60.A2-Z By region or country, A-Z  
 Subarrange each country by Table Q5
- 61 Handbooks, tables, formulas, etc.  
 71 Addresses, essays, lectures
- Force and energy (General)  
 Cf. QC310.15+ Thermodynamics  
 Philosophy see QA843+
- 72 History  
 73 General works, treatises, and textbooks  
 73.4 Juvenile works  
 73.6 Study and teaching. Research  
 73.8.A-Z Special topics, A-Z  
 73.8.C6 Conservation of energy  
 73.8.C65 Correlation of forces  
 73.8.E53 Energy transfer  
 73.8.M4 Mechanical advantage  
 73.8.W65 Work
- 75 Miscellany and curiosa
- Weights and measures. Units of measurement  
 Class here works on the means of expressing quantities of length, area, volume, capacity, and mass (or weight) in terms of standard units. For works on units used in the measurement of other quantities, including velocity, pressure, energy, temperature, see the particular field of application  
 Cf. BS680.W4 Weights and measures in the Bible  
 Cf. HF5711+ Tables of weights and measures (Business mathematics)  
 Cf. QA465 Measurement (Mathematics)  
 Cf. QB214 Time measuring instruments  
 Cf. QC535+ Electric measurements
- 81 Periodicals, societies, congresses, serial publications  
 For governmental standardizing bureaus, including serial publications issued by them see QC100.A3+
- Museums. Exhibitions  
 81.5.A1 General works  
 81.5.A2-Z By region or country, A-Z  
 Subarrange each country by Table Q5
- 82 Dictionaries and encyclopedias  
 History  
 83 General works  
 84 Ancient  
 85 Medieval  
 86 Modern  
 87 Early works through 1800  
 88 General works, treatises, and advanced textbooks  
 Including works with an alphabetical arrangement of countries
- 89.A-Z By region or country, A-Z  
 Subarrange each country by Table Q4

## Weights and measures -- Continued

- 90 Elementary textbooks
- 90.5 Popular works
- 90.6 Juvenile works
- Special systems
  - Metric system. International system (SI)
    - Cf. T50.5 Metric system in industry
- 90.8 Periodicals, societies, congresses, serial publications
- 91 General works, treatises, and textbooks
- 92.A-Z By region or country, A-Z
  - Subarrange each country by Table Q4
- 92.2 Popular works
- 92.5 Juvenile works
- 92.6 Addresses, essays, lectures
- 93 Study and teaching. Research
- 94 Conversion tables
  - International system see QC90.8+
  - Other systems (not A-Z)
- 96 Study and teaching. Research
- 99 Miscellany and curiosa
  - Including pyramid metrology
- Standards (General). Governmental standardizing bureaus
  - General works, treatises, and textbooks
  - By region or country, A-Z
- Measuring instruments (General)
  - General works
  - Catalogs
- Measurement of special quantities
  - Including instruments used in measurement
- Length
  - Standards
- Measurement and instruments
- Thickness
  - Including micrometers
- Angles
  - Including goniometers
  - Cf. QA482 Plane geometry
  - Cf. TA603 Surveying
- Volume
- Area measurement
- Mass and weight
  - Standards
  - Measurement
    - Cf. QC172+ Atomic mass
    - Cf. QC454.M3 Mass spectrometry
- General works
- Weighing instruments, balances, scales, etc.
  - Cf. TS410 Manufactures
- Density and specific gravity
  - General works
  - Tables, etc.
- Descriptive and experimental mechanics
  - For theoretical and analytical mechanics see QA801+
  - Cf. QC71.82+ Force and energy (General)
  - Cf. QC176+ Solid state physics
  - Cf. TA349+ Applied mechanics

- Descriptive and experimental mechanics -- Continued
- 120 Periodicals, societies, congresses, serial publications
- 121 Collected works (nonserial)
- 121.6 Dictionaries and encyclopedias
- 121.8 Nomenclature, terminology, notation, abbreviations
- History
- For general history of mechanics see QA802
- 122 General works
- 122.2.A-Z By region or country, A-Z
- 123 Early works through 1800
- General works, treatises, and advanced textbooks
- 125 1801-1969
- 125.2 1970-
- 127 Elementary textbooks
- 127.3 Popular works
- 127.4 Juvenile works
- 127.6 Addresses, essays, lectures
- Study and teaching. Research
- 128 General works
- 129 Problems, exercises, examinations
- 129.5 Laboratory manuals
- 131 Special aspects of the subject as a whole
- Dynamics. Motion
- Cf. QA843+ Analytic mechanics
- Cf. UF820+ Ballistics
- 133 General works, treatises, and textbooks
- 133.5 Juvenile works
- 135 Kinematics
- 136 Vibrations
- Cf. QA865+ Analytic mechanics (Dynamics)
- Cf. QA935+ Vibrations of elastic bodies
- Cf. QC231 Sound
- Cf. TA355 Engineering
- 137 Inertia
- Including Mach's principle
- Velocity. Speed
- Cf. QC233 Velocity of sound
- Cf. QC407 Velocity of light
- 137.5 General works, treatises, and textbooks
- 137.52 Juvenile works
- Fluids. Fluid mechanics
- Including liquids
- Cf. QA901+ Analytic mechanics
- Cf. TA357+ Applied fluid mechanics
- 138 Periodicals, societies, congresses, serial publications
- 139 Dictionaries and encyclopedias
- 140 Nomenclature, terminology, notation, abbreviations
- 141 History
- 142 Early works through 1500
- General works, treatises, and textbooks
- 143 1501-1700
- 144 1701-1800
- 145 1801-1969
- 145.2 1970-
- 145.24 Juvenile works
- 145.26 Addresses, essays, lectures

- Descriptive and experimental mechanics
- Fluids. Fluid mechanics -- Continued
- 145.28 Study and teaching
- 145.3 Handbooks, tables, formulas, etc.
- 145.4.A-Z Special properties of liquids, A-Z
- 145.4.A25 Acoustic properties
- 145.4.C6 Compressibility
- 145.4.D5 Diffusion
- 145.4.E45 Electric properties
- 145.4.E9 Expansion
- 145.4.M27 Magnetic properties
- 145.4.O6 Optical properties
- 145.4.P73 Pressure
- 145.4.T5 Thermal properties
- 145.4.V5 Viscosity
- 145.45.A-Z Special liquefied gases, A-Z
- 145.45.A75 Argon
- 145.45.F5 Fluorine
- 145.45.H4 Helium
- 145.45.H9 Hydrogen
- 145.48.A-Z Special liquids, A-Z
- 145.48.P6 Polywater
- 145.48.S9 Supercooled liquids
- Hydrostatics. Floating bodies
- Cf. QC183 Surface tension
- Cf. TC165+ Technical hydraulics
- Cf. TJ836+ Fluid power technology
- 145.5 Periodicals, societies, congresses, serial publications
- 145.7 Collected works (nonserial)
- 145.8 Dictionaries and encyclopedias
- 145.9 Nomenclature, terminology, notation, abbreviations
- 147 General works, treatises, and textbooks
- 147.5 Juvenile works
- 148 Addresses, essays, lectures
- Study and teaching. Research
- 148.2 General works
- 148.24 Laboratory manuals
- 148.4 Instruments and apparatus
- Including hydrometers, flowmeters
- Fluid dynamics. Hydrodynamics
- Cf. QA911+ Analytic mechanics
- Cf. TC171+ Technical hydraulics
- Cf. TJ266+ Turbine engineering
- Cf. TP156.F6 Chemical engineering
- 150 Periodicals, societies, congresses, serial publications
- 151 General works, treatises, and textbooks
- 151.2 Juvenile works
- 151.5 Addresses, essays, lectures
- 151.7 Special aspects of the subject as a whole
- 152 Incompressible fluids
- 152.5 Compressible fluids
- 153 Nonhomogeneous fluids
- 154 Viscous fluids
- Cf. QA929 Analytic mechanics
- Cf. QC189.5+ Rheology, Non-Newtonian fluids
- 155 Flows in porous media



## Descriptive and experimental mechanics

## Fluids. Fluid mechanics

## Fluid dynamics. Hydrodynamics -- Continued

- 155.5 Flows in viscous media  
 155.7 Flows in continuous media  
     Cf. QA808.2 Analytic mechanics
- 156 Drops. Splashes  
     Cf. QC183 Capillarity  
     Cf. TP159.A85 Atomizers  
 Quantum and relativistic hydrodynamics see QA912  
 Magnetohydrodynamics (Analytic mechanics) see QA920  
 Magnetohydrodynamics (Plasma physics) see QC718.5.M36
- 157 Waves  
     Cf. QA927 Analytic mechanics  
     Cf. QC718.5.W3 Plasma physics
- 158 Jets and cavities  
 159 Vortex flows  
     Cf. QA925 Analytic mechanics
- Liquids see QC138+
- Gases. Pneumatics  
     Including air  
     Cf. QD531 Manipulation of gases, etc.  
     Cf. QD535 Liquefaction of gases
- 161 General works, treatises and textbooks  
 161.2 Juvenile works  
 161.5 Handbooks, tables, formulas, etc.
- Special properties of gases
- 162 Adsorption and absorption  
     Including occlusion
- 163 Compressibility  
 163.5 Diffusion  
 164 Expansion  
 164.5 High temperatures  
 Occlusion see QC162
- 165 Pressure  
     Including manometers, etc.
- 165.3 Optical properties  
 165.5 Thermal properties
- Vacuum  
     Including vacuum production, etc.  
     Cf. TJ940+ Vacuum technology
- 166 General works  
 166.5 Ultrahigh vacuum
- 167 Viscosity
- Gas dynamics. Motion of gases  
     Including thermodynamic aspects  
     Cf. QA930 Analytic mechanics  
     Cf. QC717+ Ion flow dynamics  
     Cf. TJ1025+ Mechanical engineering  
     Cf. TL570+ Aerodynamics
- 167.5 Periodicals, societies, congresses, serial publications  
 168 General works, treatises, and textbooks  
 168.2 Addresses, essays, lectures  
 Study and teaching. Research
- 168.4 General works  
 168.6 Problems, exercises, etc.

- Descriptive and experimental mechanics
  - Fluids. Fluid mechanics
    - Gas dynamics. Motion of gases -- Continued
      - 168.7 Technique
      - 168.8 Handbooks, tables, formulas, etc.
      - 168.85.A-Z Special topics, A-Z
      - 168.85.D46 Detonation waves
      - 168.85.M53 Migration
      - 168.85.R45 Relaxation
      - 168.85.S45 Shock waves
      - 168.86 Rarefied gas dynamics
  - Atomic physics. Constitution and properties of matter
    - Including molecular physics
    - Cf. QC770+ Nuclear physics
    - Cf. QD450+ Physical chemistry
    - Cf. TA401+ Materials of engineering and construction
- 170 Periodicals, societies, congresses, serial publications
  - General works, treatises, and textbooks
    - 171 Through 1969
    - 171.2 1970-
  - Constitution of matter and antimatter (General)
    - Cf. QC671 Aberration
    - Cf. QC793+ Elementary particle physics
- 172 Periodicals, societies, congresses, serial publications
  - 172.2 Collected works (nonserial)
  - 173 General works, treatises, and textbooks
  - 173.16 Juvenile works
  - 173.18 Addresses, essays, lectures
  - 173.25 Study and teaching. Research
- Properties of matter and antimatter (General)
  - Cf. QC182+ Special properties of matter and antimatter
- 173.28 Periodicals, societies, congresses, serial publications
  - 173.3 General works, treatises, and textbooks
  - 173.36 Juvenile works
  - 173.38 Addresses, essays, lectures
  - 173.39 Special aspects of the subject as a whole
  - 173.397 Handbooks, tables, formulas, etc.
  - 173.4.A-Z Special topics, A-Z
    - 173.4.A82 Atom cooling
    - 173.4.A85 Atomic beams
    - 173.4.A87 Atomic clusters see QC173.4.M48
    - Atomic structure
      - Clusters, Atomic see QC173.4.M48
    - 173.4.C63 Composite materials
    - (173.4.C65) Condensed matter
      - see QC173.45+
    - 173.4.C74 Critical phenomena
    - 173.4.E65 Equations of state
    - 173.4.G53 Glass
    - 173.4.H95 Hyperfine structure
    - 173.4.I53 Inhomogeneous materials
    - 173.4.I57 Interfaces
    - 173.4.L55 Liquid crystals
      - Cf. QD923 Crystallography
    - 173.4.L56 Liquid metals
      - Cf. TA463 Engineering

- Atomic physics. Constitution and properties of matter  
 Properties of matter and antimatter (General)  
 Special topics, A-Z -- Continued
- 173.4.M48 Microclusters  
 Including atomic clusters and molecular clusters  
 Cf. QC793.3.S8 Nuclear cluster theory
- 173.4.M5 Microphysics
- 173.4.M65 Molecular beams  
 Molecular clusters see QC173.4.M48
- 173.4.M67 Momentum distributions
- 173.4.M85 Multiple scattering
- 173.4.O73 Order-disorder models
- 173.4.P64 Polarizability
- 173.4.P65 Polymers  
 Class here works on physical properties  
 For general works on chemical and physical properties see QD380+
- 173.4.P67 Porous materials
- 173.4.Q36 Quasicrystals  
 Cf. QD926 Crystallography
- 173.4.Q37 Quasimolecules
- 173.4.R44 Relaxation phenomena
- 173.4.S94 Surfaces
- 173.4.T48 Thomas-Fermi theory
- Condensed matter physics
- 173.45 Periodicals, societies, congresses, serial publications
- 173.452 Directories
- 173.454 General works, treatises, and advanced textbooks
- 173.456 Study and teaching. Research
- 173.457.A-Z Special methods, A-Z
- 173.457.C64 Computer simulation
- 173.457.S7 Statistical methods
- 173.458.A-Z Special topics, A-Z
- 173.458.C78 Crystalline interfaces
- 173.458.D43 Defects
- 173.458.E43 Electric properties
- 173.458.E53 Energy dissipation
- 173.458.F72 Fractals
- 173.458.M33 Magnetic properties
- 173.458.M38 Mathematics
- 173.458.O66 Optical properties
- 173.458.R33 Radiation effects
- 173.458.S62 Soft condensed matter
- 173.458.S64 Spectra
- 173.458.S75 Structure
- 173.458.S87 Surfaces
- 173.458.T48 Thermal properties
- 173.458.U54 Universalities
- Relativity physics
- Cf. QA808.5 Relativistic mechanics
- Cf. QC175.3+ Kinetic theory of liquids
- 173.5 Periodicals, societies, congresses, serial publications
- 173.51 Collected works (nonserial)
- 173.52 History
- 173.55 General works, treatises, and textbooks
- 173.57 Popular works
- 173.575 Juvenile works

- Atomic physics. Constitution and properties of matter  
 Relativity physics -- Continued
- 173.58 Addresses, essays, lectures  
 173.585 Special aspects of the subject as a whole  
     Including criticism of relativity
- 173.59.A-Z Special topics, A-Z  
 173.59.E68 Equations of motion  
 173.59.G44 Geometrodynamics  
 173.59.M3 Mathematical methods  
 173.59.S56 Simultaneity  
 173.59.S65 Space and time  
 173.59.T5 Time dilatation  
 173.59.T53 Time reversal
- Special types of relativity theories  
 173.6 General  
 173.65 Special
- Field theories. Unified field theories  
     Cf. QA808.2 Continuum mechanics  
     Cf. QC174.45+ Quantum field theory  
     Cf. QC178 Theories of gravitation  
     Cf. QC793.3.F5 Elementary particle physics
- 173.68 Periodicals, societies, congresses, serial publications  
 173.7 General works, treatises, and textbooks  
 173.72 Addresses, essays, lectures  
 173.75.A-Z Special topics, A-Z  
 173.75.T5 Thermodynamics  
 173.75.T85 Twistor theory
- Quantum theory. Quantum mechanics  
     Cf. QB991.Q36 Cosmology  
     Cf. QC446.15+ Quantum optics
- 173.96 Periodicals, societies, congresses, serial publications  
 173.97 Collected works (nonserial)  
 173.975 Dictionaries and encyclopedias  
 173.98 History  
 174 Early works through 1926  
     Class here works on quantum theory prior to the Bohr atom
- 174.12 General works, treatises, and textbooks  
     Class here works on quantum theory after 1926
- 174.123 Popular works  
 174.125 Addresses, essays, lectures  
 174.13 Special aspects of the subject as a whole  
 Study and teaching. Research
- 174.14 General works  
 174.15 Problems, exercises, examinations
- 174.17.A-Z Special topics, A-Z  
 174.17.A53 Angular momentum  
 174.17.A66 Approximation theory  
     Bayesianism, Quantum see QC174.17.Q29
- 174.17.B45 Bell's theorem  
 174.17.B6 Bound states  
 174.17.C45 Chaos  
 174.17.C6 Commutation relations  
 174.17.C63 Complementarity  
     Constant curvature, Spaces of see QC174.17.S63  
     Correspondence principle  
     Coulomb potential

## Atomic physics. Constitution and properties of matter

## Quantum theory. Quantum mechanics

## Special topics, A-Z -- Continued

- Curvature, Spaces of constant see QC174.17.S63
- 174.17.D37 Data processing
- 174.17.D44 Density matrices
- 174.17.D54 Differential equations, Partial
- 174.17.E58 Entanglement
- 174.17.F3 Factorization method
- Few-body problem see QC174.17.P7
- 174.17.F45 Feynman integrals
- 174.17.F54 Finite element method
- 174.17.F86 Functionals
- 174.17.G46 Geometric quantization
- 174.17.G5 Gibbs' paradox
- 174.17.G56 Gleason measures
- 174.17.G57 Global analysis
- 174.17.G68 Green's functions
- 174.17.G7 Group theory
  - Cf. QA174+ Algebra
- 174.17.H3 Hamiltonian operator
- 174.17.H4 Heisenberg principle
  - Cf. QC6.4.D46 Determinism
- 174.17.H55 Hilbert space
- 174.17.I58 Integral equations
- 174.17.I76 Irreversible processes
  - Cf. QC318.17 Thermodynamics
- Many-body problem see QC174.17.P7
- 174.17.M33 Markov processes
- 174.17.M35 Mathematical logic. Quantum logic
- 174.17.M4 Measure theory. Quantum measure theory
- 174.17.O63 Operator theory
- Partial differential equations see QC174.17.D54
- 174.17.P27 Path integrals
- 174.17.P3 Pauli exclusion principle
- 174.17.P45 Perturbation
- 174.17.P68 Probabilities
- 174.17.P7 Problem of many bodies
  - Including few-body problem
- 174.17.Q29 Quantum Bayesianism
- Quantum computers see QA76.889
- 174.17.Q33 Quantum interference
- Quantum logic see QC174.17.M35
- 174.17.Q35 Quantum maps
- Quantum measure theory see QC174.17.M4
- 174.17.Q38 Quantum teleportation
- 174.17.Q385 Quantum trajectories
- 174.17.R32 Racah algebra
- 174.17.R37 Rate processes
- 174.17.R46 Renormalization theory
- 174.17.R65 Rotation groups
- 174.17.S3 Schrödinger operator
- 174.17.S32 Schwinger action principle
- 174.17.S36 Semigroups
- 174.17.S6 Sommerfeld polynomial method
- 174.17.S63 Spaces of constant curvature

- Atomic physics. Constitution and properties of matter
- Quantum theory. Quantum mechanics
  - Special topics, A-Z -- Continued
  - 174.17.S76 Stochastic processes
  - 174.17.S77 Sum rules
  - 174.17.S78 Supergravity see QC174.17.S9
  - 174.17.S9 Superposition
  - Symmetry. Invariance
    - Including supergravity
    - Cf. QC793.3.S9 Elementary particle physics
  - 174.17.T67 Transactional interpretation
  - Teleportation see QC174.17.Q38
  - 174.17.T7 Transformations
  - 174.17.V35 Variational principles
  - 174.17.V4 Vector analysis
  - Wave mechanics
    - Cf. QC793.3.W3 Elementary particle physics
    - Periodicals, societies, congresses, serial publications
    - 174.2.A1 Collected works (nonserial)
    - 174.2.A2 General works, treatises, and textbooks
    - 174.2.A6-Z Addresses, essays, lectures
    - 174.22 Special aspects of the subject as a whole
    - 174.23 Special types of wave mechanics, A-Z
    - 174.24.A-Z Geometrical
    - 174.24.G4 Nonlinear
    - 174.24.N6 Nonrelativistic
    - 174.24.N64 Relativistic
    - 174.24.R4
    - 174.26.A-Z Special topics, A-Z
      - Atomic and molecular orbitals see QD461
      - 174.26.A8 Atomic transition probabilities
      - 174.26.B58 Bivectors
      - Spinor analysis see QA433
      - 174.26.W28 Wave equations
        - Including solitons
      - 174.26.W3 Wave functions
  - Matrix mechanics
    - Cf. QC793.3.M36 Elementary particle physics
    - Periodicals, societies, congresses, serial publications
    - 174.3.A1 General works, treatises, and textbooks
    - 174.3.A6-Z Handbooks, tables, formulas, etc.
    - 174.32 Special theories, A-Z
    - 174.35.A-Z R-matrix theory
    - 174.35.R2 S-matrix theory
    - 174.35.S2
  - Quantum statistics
    - Cf. QC793.3.S77 Statistical mechanics of elementary particles
    - Periodicals, societies, congresses, serial publications
    - 174.4.A1 Collected works (nonserial)
    - 174.4.A2 General works, treatises, and textbooks
    - 174.4.A6-Z Addresses, essays, lectures
    - 174.42 Special aspects of the subject as a whole
    - 174.43
  - Quantum field theory
    - Cf. QC679+ Quantum electrodynamics
    - Cf. QC793.3.M36 Matrix theories of elementary particles
    - Periodicals, societies, congresses, serial publications
    - 174.45.A1 Collected works (nonserial)
    - 174.45.A2 General works, treatises, and textbooks
    - 174.45.A6-Z

- Atomic physics. Constitution and properties of matter  
 Quantum theory. Quantum mechanics  
 Quantum field theory -- Continued  
 174.46 Addresses, essays, lectures  
 174.52.A-Z Special topics, A-Z  
 174.52.A43 Algebra of currents  
     Cf. QC793.3.A4 Elementary particle physics  
 174.52.C66 Conformal invariants  
 174.52.D43 Degree of freedom  
 174.52.F8 Functional analysis  
 174.52.K56 Knot theory  
 174.52.L6 Lorentz transformations  
 174.52.O6 Operator theory  
 174.52.P37 Path integrals  
 174.52.S32 Scattering  
 174.52.S94 Symplectic manifolds  
 174.52.V33 Vacuum  
 174.52.Y36 Yang-Baxter equation  
 174.52.Y37 Yang-Mills theory  
 174.52.Z47 Zero-point field
- Statistical physics  
     Including statistical mechanics and dynamics  
     Cf. QC311.5 Statistical thermodynamics  
     Cf. QC793.3.S77 Elementary particle physics  
 174.7 Periodicals, societies, congresses, serial publications  
 174.8 General works, treatises, and textbooks  
 174.82 Addresses, essays, lectures  
 174.84 Special aspects of the subject as a whole  
     Study and teaching. Research  
     General works  
 174.844 Problems, exercises, examinations  
 174.85.A-Z Special topics, A-Z  
 174.85.E88 Estimation theory  
 174.85.F47 Fermi liquid theory  
 174.85.H35 Hamiltonian systems  
 174.85.I8 Ising model  
 174.85.L38 Lattice theory  
 174.85.M43 Mean field theory  
 174.85.M64 Monte Carlo method  
 174.85.O6 Open systems  
     Cf. QC318.O63 Thermodynamics  
 174.85.P45 Percolation  
 174.85.P48 Phase space  
     Phase transformations see QC175.16.P5  
 174.85.P76 Probabilities  
 174.85.Q83 Quantum entropy  
     Cf. QC318.E57 Entropy (Thermodynamics)  
 174.85.R36 Random fields  
 174.85.R364 Random matrices  
 174.85.R37 Random walks  
 174.85.S34 Scaling  
 174.85.S46 Set theory  
 174.85.W85 Wulff construction  
 174.86.A-Z Special types of statistical mechanics, A-Z  
 174.86.C6 Classical  
 174.86.N65 Nonequilibrium

- Atomic physics. Constitution and properties of matter
- Statistical physics -- Continued
- 174.9 Kinetic theory of matter  
Kinetic theory of gases  
Cf. QC702.5 Ionized gases
- 175.A1 Periodicals, societies, congresses, serial publications
- 175.A6-Z General works, treatises, and textbooks
- 175.13 Special aspects of the subject as a whole
- 175.15 Study and teaching. Research
- 175.16.A-Z Special topics, A-Z
- 175.16.B6 Boltzmann's distribution law
- 175.16.B65 Bose-Einstein gas
- 175.16.C6 Condensed gases
- 175.16.E6 Electron gas  
Joule-Thomson effect see QC318.J6
- 175.16.M6 Molecules
- 175.16.P5 Phase transformations
- 175.16.R3 Rarefied gases
- Transport theory  
Cf. QC176.8.E9 Excitons  
Cf. QC793.3.T7 Transport theory of elementary particles  
Cf. QC809.E6 Energy budget (Geophysics)
- 175.2.A1 Periodicals, societies, congresses, serial publications
- 175.2.A6-Z General works, treatises, and textbooks
- 175.23 Addresses, essays, lectures
- 175.25.A-Z Special topics, A-Z
- 175.25.C6 Collision integrals
- 175.25.I6 Invariant imbedding
- 175.25.L5 Linear transport theory
- 175.25.R3 Radiative transfer
- 175.25.S4 Second sound
- 175.25.S8 Stochastic processes
- Kinetic theory of liquids
- 175.3 General works, treatises, and textbooks
- 175.32 Addresses, essays, lectures
- 175.35 Special aspects of the subject as a whole
- 175.36.A-Z Special topics, A-Z
- 175.36.R4 Relativity
- Superfluid physics  
Cf. QC611.9+ Superconductivity
- 175.4.A1 Periodicals, societies, congresses, serial publications
- 175.4.A6-Z General works, treatises, and textbooks
- 175.45 Addresses, essays, lectures
- 175.47.A-Z Special topics, A-Z
- 175.47.B65 Bose-Einstein condensation
- Solids. Solid state physics  
Class here works on solids, including works that also deal in part with crystals.  
For works that deal exclusively with crystals see QD901+  
Cf. QD478 Solid state chemistry  
Cf. TN689+ Physical metallurgy
- 176.A1 Periodicals, societies, congresses, serial publications
- 176.A3 Dictionaries and encyclopedias
- 176.A6-Z General works, treatises, and textbooks
- 176.2 Addresses, essays, lectures
- 176.3 Juvenile works  
Study and teaching. Research



## Atomic physics. Constitution and properties of matter

## Solids. Solid state physics

## Study and teaching. Research -- Continued

- 176.5 General works
- 176.515 Problems, exercises, examinations
- 176.52.A-Z By region or country, A-Z
- 176.8.A-Z Special topics, A-Z
- 176.8.A3 Acoustic properties
  - Cf. TA418.84 Engineering materials
- 176.8.A35 Adhesion
- 176.8.A44 Amorphous substances
- 176.8.A54 Anderson model
- 176.8.A6 Annealing
- 176.8.C45 Channeling
- 176.8.C6 Compressibility
- 176.8.D44 Defects
- 176.8.D5 Diffusion
- Elastic properties see QC191
- 176.8.E35 Electric properties
- 176.8.E4 Electronic states
- 176.8.E9 Excitons
- 176.8.E94 Expansion
- 176.8.F4 Fermi surface
- 176.8.F74 Free electron theory of metals
- Hole burning, Optical see QC176.8.O58
- Hopping conduction
- 176.8.H66 Lattice dynamics
  - Cf. QD921+ Crystal structure
- 176.8.L3
- 176.8.M3 Magnetic properties
- 176.8.M34 Magnetron sputtering
- 176.8.M46 Mesoscopic phenomena
- 176.8.M48 Metal-insulator transitions
- 176.8.M5 Micromechanics
- 176.8.N35 Nanostructures
- Noncrystalline solids see QC176.8.A44
- 176.8.N65 Nonmetallic solids
- 176.8.O58 Optical hole burning
- 176.8.O6 Optical properties
- 176.8.P45 Phase transformations
- 176.8.P5 Phonons
- 176.8.P54 Plasma effects
- 176.8.P55 Plasmons
- 176.8.P6 Polaritons
- 176.8.P62 Polarons
- 176.8.Q35 Quantum wells
- 176.8.R3 Radiation effects
- 176.8.R35 Rare gas solids
- 176.8.S68 Spin glasses
- 176.8.S72 Sputtering
- Sputtering, Magnetron see QC176.8.M34
- 176.8.S8 Surface properties
  - Cf. QD506+ Surface chemistry
  - Cf. TA418.7+ Surface technology
- 176.8.T4 Thermal properties
  - Cf. QC295 Specific heat
  - Cf. TA418.52+ Engineering materials

- Atomic physics. Constitution and properties of matter  
 Solids. Solid state physics  
   Special topics, A-Z -- Continued  
 176.8.T8            Tunneling  
 176.8.V34          Valence fluctuations  
 176.8.W3           Wave propagation  
   Thin films  
 176.82             Periodicals, societies, congresses, serial publications  
 176.825            Collected works (nonserial)  
 176.83             General works, treatises, and textbooks  
 176.835            Addresses, essays, lectures  
 176.84.A-Z         Special topics, A-Z  
 176.84.D54         Diffusion  
 176.84.E5          Electric properties  
 176.84.M3          Magnetic properties  
 176.84.O7          Optical properties  
 176.84.R3          Radiation effects  
 176.84.S49         Size effects  
 176.84.S93         Surface properties  
 176.9.A-Z          Special thin film substances and types, A-Z  
 176.9.M84          Multilayered  
 176.9.N64          Nonmetallic  
 176.9.O73          Organic  
 176.9.P64          Polycrystalline  
 176.9.R37          Rare earths  
 176.95.A-Z         Special substances, A-Z  
 176.95.I25         Ice  
                   Cf. QC926.3+ Snow  
 177                 Theories of ether  
 178                 Theories of gravitation  
                   Including antigravity, quantum gravity  
 179                 Gravitational waves. Gravitational radiation  
   Special properties of matter and antimatter  
 182                 Absorption and adsorption  
                   Cf. QC162 Adsorption and absorption of gases  
 183                 Capillarity  
                   Including surface tension, cohesion  
                   Cf. QA274.75 Brownian motion processes  
                   Cf. QC156 Drops. Splashes  
                   Cf. QD506+ Surface chemistry  
 184                 Brownian motion  
 185                 Diffusion. Transpiration  
                   Cf. QA274.75 Diffusion processes  
                   Cf. QC145.4.D5 Diffusion in liquids  
                   Cf. QC163.5 Diffusion in gases  
                   Cf. QC176.8.D5 Diffusion in solids  
   Osmosis (Cytology) see QH615  
   Osmosis (Physical chemistry) see QD543  
   Osmosis (Plant physiology) see QK871  
   Viscosity  
                   Cf. QC145.4.V5 Viscosity of liquids  
                   Cf. QC167 Viscosity of gases  
 189.A1             Periodicals, societies, congresses, serial publications  
 189.A2             Collected works (nonserial)  
 189.A6-Z           General works, treatises, and textbooks  
 189.2              Handbooks, tables, formulas, etc.

- Atomic physics. Constitution and properties of matter  
 Special properties of matter and antimatter -- Continued  
 Rheology  
   Including non-Newtonian liquids  
   Cf. QA931+ Plasticity (Analytic mechanics)  
   Cf. TA418.14+ Plastic properties of materials  
   Cf. TP156.R45 Chemical engineering
- 189.5.A1 Periodicals, societies, congresses, serial publications  
 189.5.A2 Collected works (nonserial)  
 189.5.A6-Z General works, treatises, and textbooks  
 189.55.A-Z Special topics, A-Z  
 189.55.S58 Slit die rheometers  
 189.8 Thixotropy  
 191 Elastic properties of solids  
   Cf. QA931+ Analytic mechanics  
   Cf. QD933 Crystallography  
   Cf. TA418+ Mechanical properties of materials
- 191.5.A-Z Particular solids and special topics, A-Z  
 191.5.M48 Metals  
 191.5.S67 Springback  
 192 Thermal properties  
 193 Deformation  
 197 Friction, etc.  
   Cf. TA418.72 Friction properties of materials
- Sound, light, and heat as a whole  
 220 General works  
 220.5 Acousto-optics  
 Acoustics. Sound  
   Cf. ML3805 Music acoustics  
   Cf. NA2800 Architectural acoustics  
   Cf. QC176.8.A3 Acoustical properties of solids  
   Cf. QP460+ Bioacoustics  
   Cf. TA365+ Acoustics in engineering  
   Cf. TA418.84 Acoustical properties of materials  
   Cf. TH1725 Soundproof construction  
   Cf. TK5981+ Electroacoustics
- 221 Periodicals, societies, congresses, serial publications  
 221.5 Dictionaries and encyclopedias  
 221.7 History  
 222 Early works through 1800  
 223 Mathematical theory  
   General works, treatises, and advanced textbooks  
     1801-1969  
     1970-  
 225 Elementary textbooks  
 225.2 Popular works  
 225.3 Juvenile works  
 225.6 Addresses, essays, lectures  
 225.7 Special aspects of the subject as a whole  
   Study and teaching. Research  
     General works  
     Experiments  
     Laboratory manuals  
 226 Laboratories  
 226.6 General works  
 227  
 228.A1 General works

## Acoustics. Sound

## Laboratories -- Continued

228.A3-Z

By region or country, A-Z

Subarrange each country by Table Q6

228.2

Technique

228.3

Instruments and apparatus

228.8

Handbooks, tables, formulas, etc.

229

Miscellany and curiosa

## Special topics

231

Kinematics of vibrations and wave motion

233

Propagation of sound

Including velocity, reflection, transmission

## Vibrations

235

Gases in tubes, etc. Resonance

241

Strings, rods, membranes, plates, tuning forks

## Underwater acoustics

Cf. TK5103.52 Acoustical telecommunication systems

242

Periodicals, societies, congresses, serial publications

242.2

General works, treatises, and textbooks

242.25

Addresses, essays, lectures

242.4

Instruments and apparatus

Cf. TK5987 Hydrophone design and construction

242.5.A-Z

Special topics, A-Z

242.5.O23

Ocean tomography

## Sound waves

Cf. TD894 Noise measurement

242.8

Periodicals, societies, congresses, serial publications

243

General works, treatises, and textbooks

243.2

Juvenile works

243.3.A-Z

Special topics, A-Z

243.3.A24

Acoustic localization

243.3.A25

Acoustic streaming

243.3.A4

Amplitude

243.3.D3

Damping

243.3.D53

Diffraction

243.3.E5

Energy

243.3.P7

Pressure of sound

243.3.R3

Radiation pressure

243.3.R4

Reverberation. Reverberation time

Cf. NA2800 Architectural acoustics

243.3.S3

Scattering

Transmission see QC233

243.5

Infrasonics

244

Ultrasonics

Cf. QC480.2 Sonoluminescence

Cf. TA417.4 Ultrasonic testing

244.2

Nonlinear acoustics

244.5

Acoustic holography

246

Analysis of sounds. By phonograph, etc.

For acoustic phonetics see P221.5

## Heat

For thermal properties of solids see QC176.8.T4

Cf. QC220+ Sound, light, and heat as a whole

251

Periodicals, societies, congresses, serial publications

251.4

Collected works (nonserial)

251.6

Dictionaries and encyclopedias

- Heat -- Continued
- 252 History and philosophy
- 252.2 Nomenclature, terminology, notation, abbreviations
- 253 Early works through 1800  
General works, treatises, and advanced textbooks
- 254 1801-1969
- 254.2 1970-
- 255 Elementary textbooks
- 256 Juvenile works
- 257 Addresses, essays, lectures  
Study and teaching. Research  
For programmed texts see QC254+
- 261 General works
- 261.5 Problems, exercises, examinations
- 263 Experiments
- 263.5 Laboratory manuals
- 265 Technique
- 266 Handbooks, tables, formulas, etc.
- 267 Miscellany and curiosa  
Thermometers. Thermometry  
Including temperature measurements and temperature measuring instruments  
Cf. GC177 Oceanographic instruments
- 270 Periodicals, societies, congresses, serial publications
- 270.5 Collected works (nonserial)
- 270.7 Dictionaries and encyclopedias
- 271 General works, treatises, and textbooks
- 271.4 Juvenile works
- 271.5 Addresses, essays, lectures
- 271.6 Special aspects of the subject as a whole
- 271.8.A-Z Special aspects of instrumentation, A-Z
- 271.8.A95 Automatic control
- 271.8.C3 Calibration
- 271.8.T4 Testing
- Special types of thermometers
- 272 Mercury and other liquids
- 273 Air and gases
- 274 Electrical. Resistance thermometers. Thermocouples
- 275.A-Z Other, A-Z
- High temperatures
- 276 General works
- 277 Pyrometers and pyrometry
- Low temperatures
- Cf. QD536 Thermochemistry
- Cf. TP480+ Low temperature engineering
- 277.9 Periodicals, societies, congresses, serial publications
- 278 General works, treatises, and textbooks
- 278.2 Juvenile works
- 278.4 Addresses, essays, lectures
- 278.6 Instruments and apparatus
- High pressure
- 280 Periodicals, societies, congresses, serial collections
- 280.2 General works, treatises, and textbooks
- 280.4 Study and teaching. Research
- 280.6 Technique
- 280.8 Instruments and apparatus  
Relations between pressure, volume, and temperature

## Heat

Relations between pressure, volume, and temperature -- Continued

- 281 General works
- 281.5.A-Z Special topics, A-Z
- 281.5.C6 Compressibility
- 281.5.E9 Expansion
- (282) Solids
  - see QC176+
- (284) Liquids
  - see QC138+
- (286) Gases
  - see QC161+
- Calorimeters and calorimetry
  - Cf. QD510+ Thermochemistry
  - Cf. TP315+ Fuel (Chemical technology)
- 290 Periodicals, societies, congresses, serial publications
- 291 General works, treatises, and textbooks
- 292 Addresses, essays, lectures
- 293.A-Z Special types of calorimeters, A-Z
- 293.A3 Adiabatic
- 293.F5 Fluid
- 293.F8 Fuel
- 293.G3 Gas
- 293.M5 Microcalorimeter
- 293.R3 Radiation
- 293.V3 Vacuum
- 295 Specific heat of solids and liquids
- 297 Specific heat of gases and vapors
- Change of state
- 301 General works, treatises, and textbooks
- 303 Fusion and solidification. Heat of fusion
- 304 Saturated vapors. Vapor pressure. Evaporation. Ebullition. Heat of vaporization
  - Cf. QC915.5+ Meteorology
  - Cf. QD533 Vapor densities
  - Cf. QD535 Liquefaction of gases
- 307 Continuity of state. Critical state. Critical point. Equations of state
- 309 Vaporization of solids. Sublimation
- 310 Heat of formation, solution, wetting, etc.
  - Cf. QD516 Thermochemistry
- Thermodynamics
  - Cf. QC718.5.T5 Plasma physics
  - Cf. QD510+ Chemical thermodynamics
  - Cf. TJ255+ Heat engines. Engineering thermodynamics
  - Cf. TN689+ Metallurgical thermodynamics
- 310.15 Periodicals, societies, congresses, serial publications
- 310.2 Collected works (nonserial)
- 310.3 Dictionaries and encyclopedias
- 310.5 Nomenclature, terminology, notation, abbreviations
- 311 General works, treatises, and advanced textbooks
- 311.15 Elementary textbooks
- 311.19 Addresses, essays, lectures
- 311.2 Special aspects of the subject as a whole
  - Study and teaching. Research
  - General works
  - Problems, exercises, examinations
  - Data processing
- 311.25
- 311.28
- 311.29

## Heat

## Thermodynamics -- Continued

- 311.3 Handbooks, tables, formulas, etc.
- Special types of thermodynamics
  - 311.5 Statistical
  - 311.7 Relativistic
- 312 Mechanical equivalent of heat
- 318.A-Z Other special topics, A-Z
- 318.E55 Enthalpy
- 318.E57 Entropy
  - Cf. QC174.85.Q83 Quantum entropy
  - Equilibrium thermodynamics see QC318.T47
  - Force and energy see QC71.82+
  - Gases see QC167.5+
- 318.I7 Irreversible processes
  - Including nonequilibrium thermodynamics
  - Cf. QC174.17.I76 Quantum theory
- 318.J6 Joule-Thomson effect
- Low temperatures see QC277.9+
- 318.M3 Mass transfer
- 318.M35 Maxwell's demon
- Nonequilibrium thermodynamics see QC318.I7
- 318.O63 Open systems
- 318.P6 Planck radiation law
- 318.T47 Thermodynamic equilibrium
- 318.T5 Thermodynamic potentials
- 319 Miscellany and curiosa
- Heat transfer
  - 319.8 Periodicals, societies, congresses, serial publications
  - 319.9 Collected works (nonserial)
  - 320 General works, treatises, and textbooks
  - 320.14 Juvenile works
  - 320.16 Addresses, essays, lectures
  - 320.2 Special aspects of the subject as a whole
  - 320.22.A-Z Special topics, A-Z
    - 320.22.E4 Electromechanical analogies
    - 320.22.E43 Electronic data processing
    - 320.22.F5 Film boiling
    - 320.22.F56 Finite element method
  - Study and teaching. Research
    - 320.3 General works
    - 320.34 Problems, exercises, examinations
    - 320.36 Experiments
  - Instruments and apparatus
  - 320.4 Handbooks, tables, formulas, etc.
  - Conduction
    - 320.8 Periodicals, societies, congresses, serial publications
    - 321 General works, treatises, and textbooks
    - 321.3 Juvenile works
    - 321.5 Addresses, essays, lectures
    - 321.6 Special aspects of the subject as a whole
    - 321.7.A-Z Special topics, A-Z
      - 321.7.E4 Electromechanical analogies
      - 321.7.T55 Thermal diffusivity
    - 323 Experiments

## Heat

## Heat transfer -- Continued

## Convection

Cf. TH7435+ Heating of buildings

- 326 Periodicals, societies, congresses, serial publications
- 327 General works, treatises, and textbooks
- 327.4 Handbooks, manuals, etc.
- 328 Addresses, essays, lectures
- 330 Free convection
- 330.2 Bénard cells
- Radiation and absorption. Laws of cooling
- 331 General works
- Instruments
- 338 General works, treatises, and textbooks
- 338.5.A-Z Special, A-Z
- 338.5.B6 Bolometers
- 338.5.P95 Pyroelectric detectors
- 338.5.R3 Radiometers
- 338.5.R33 Radiomicrometers
- Thermopiles see QC274

## Optics. Light

Cf. QC220+ Sound, light, and heat as a whole

Cf. QC494+ Color

Cf. QP474+ Physiological optics

Cf. TA1501+ Applied optics. Lasers

- 350 Periodicals, societies, congresses, serial publications
- 351 Collected works (nonserial)
- 351.2 Dictionaries and encyclopedias
- 351.5 Nomenclature, terminology, notation, abbreviations
- 352 History
- Biography
- 352.4 Collective
- 352.5.A-Z Individual, A-Z
- 353 Early works through 1800
- General works, treatises, and advanced textbooks
- 355 1801-1969
- 355.2 1970-2000
- 355.3 2001-
- 358 Elementary textbooks
- 358.5 Popular works
- 360 Juvenile works
- 361 Addresses, essays, lectures
- 362 Pictorial works and atlases
- Study and teaching. Research
- 363 General works
- 363.2 Outlines, syllabi
- 363.4 Problems, exercises, examinations
- 365 Experiments
- 366 Laboratory manuals
- Optical measurements
- 367 General works
- 367.3.A-Z Special topics, A-Z
- 367.3.D46 Densitometry
- 367.3.I58 Interferometry
- 367.3.L37 Laser interferometry
- 367.3.L38 Laser velocimetry



- Optics. Light
  - Optical measurements
    - Special topics, A-Z -- Continued
      - 367.3.P37 Particle dynamics analysis
      - 367.3.P65 Polarimetry
      - 367.3.S64 Speckle metrology
      - 367.3.V45 Velocimetry
  - 368 Optical constants
  - 369 Handbooks, tables, formulas, etc.
  - 369.2 Miscellany and curiosa
  - 370 Information theory in optics
  - Optical instruments and apparatus (General)
    - Cf. QC385+ Lens and mirror systems
    - Cf. QC787.O6 Nuclear fission, atomic energy, and radioactivity instruments
    - Cf. TS510+ Optical instrument manufacture
  - 370.5 Periodicals, societies, congresses, serial publications
  - 370.6 Collected works (nonserial)
  - 370.7 Dictionaries and encyclopedias
  - 371 General works, treatises, and textbooks
  - 371.4 Juvenile works
  - 371.5 Addresses, essays, lectures
  - 372 Special aspects of the subject as a whole
  - 372.2.A-Z Special topics, A-Z
    - 372.2.D4 Design
  - Study and teaching. Research
    - 372.22 General works
    - 372.24 Laboratory manuals
  - 372.6 Handbooks, tables, formulas, etc.
  - 373.A-Z Special instruments, A-Z
    - 373.B3 Beam splitters
    - 373.B55 Binoculars. Field glasses
    - 373.C64 Collimators
    - Diffraction gratings see QC417
    - Field glasses see QC373.B55
    - Hand lenses see QC373.M33
  - 373.H5 Heliostat
  - Interference microscopes see QH212.I5
  - 373.K3 Kaleidoscopes
  - 373.L5 Light filters
  - 373.M33 Magnifying glasses. Hand lens
  - Mass spectrometers see QC454.M3
  - Microscopes see QH211+
  - 373.O59 Optical detectors
  - 373.P7 Polariscopes
  - Polarizing apparatus see QH217
  - 373.Q2 Q-switching
  - Reflectometer see QC425.4
  - Refractometers see QC426.4
  - 373.R4 Reticles
  - Scanning systems see TK7882.S3
  - 373.S3 Schlieren apparatus
    - Including schlieren methods
  - 373.S7 Spectrograph. Spectrometer
  - 373.S8 Stereoscope
  - 373.S85 Stroboscopes
  - Telemeter see TK399

## Optics. Light

## Optical instruments and apparatus (General)

Special instruments, A-Z -- Continued

Telescopes see QB88+

Materials for optical instruments, etc.

- 374 General works
- 374.5 Diamond
- 375 Glass
- 376 Quartz
- 378 Thin films
- 378.5 Transparent ceramics
- 379 Miscellany and curiosa

## Geometrical optics

Cf. QC974.5+ Meteorological optics

Cf. TA1659.5+ Micro-optics

Cf. TR220 Photographic optics

- 380 Early works through 1800
- 381 General works, treatises, and advanced textbooks
- 381.2 Elementary textbooks
- 381.4 Popular works
- 381.6 Juvenile works
- Study and teaching. Research
  - 382 General works
  - 382.2 Problems, exercises, examinations
  - 382.6 Laboratory manuals
  - 383 Mathematical theory

## Lens and mirror systems

Cf. QB88+ Astronomical instruments

Cf. RE961 Ophthalmology

Cf. TC379 Lighthouse lenses

Cf. TP867 Mirrors and mirror frames

Cf. TR270+ Camera lenses

Cf. TS517.3+ Manufacture of optical surfaces

- 385 General works
- 385.2.A-Z Special topics, A-Z
- 385.2.D47 Design
  - Cf. QC372.2.D4 Optical instrument design

## 385.5 Experiments

## 387 Refractive indices

Cf. QC426.4 Refractometers

## 389 Transmission of radiation

## 391 Photometry. Microphotometry

Including densitometers

Cf. QB135 Astronomical photometry

Cf. TK4367 Electric light testing

Cf. TP754 Gas light testing

## Physical optics

- 392 Periodicals, societies, congresses, serial publications
- 393 Collected works (nonserial)
- 393.2 Dictionaries and encyclopedias
- 394 Early works through 1800
- General works, treatises, and advanced textbooks
  - 395 1801-1969
  - 395.2 1970-
- 396 Elementary textbooks
- 397 Addresses, essays, lectures

## Optics. Light

## Physical optics -- Continued

- 397.5.A-Z Special topics, A-Z  
 397.5.I53 Images  
 397.5.O77 Optical losses
- Study and teaching. Research  
 398 General works  
 398.2 Problems, exercises, examinations
- Theories of light  
 401 General works  
 402 Corpuscular theory  
     Cf. QC446.15+ Quantum optics  
 403 Wave theory  
     Cf. QC669+ Electromagnetic theory  
 406 Miscellaneous speculations  
 407 Velocity of light
- Interference  
     Including Newton's rings, interferometer  
     Cf. QH212.I5 Interference microscopes  
 410.9 Periodicals, societies, congresses, serial publications  
 411 General works, treatises, and textbooks  
 411.4 Instruments and apparatus
- Diffraction  
 414.8 Periodicals, societies, congresses, serial publications  
 414.9 Collected works (nonserial)  
 415 General works, treatises, and textbooks  
 416 Addresses, essays, lectures  
 417 Instruments and apparatus  
     Including diffraction gratings
- Reflection  
 425 General works  
 425.2 Juvenile works  
 425.4 Instruments and apparatus  
     Including reflectometers
- Refraction  
 425.9 Collected works (nonserial)  
 426 General works, treatises, and textbooks  
 426.2 Juvenile works  
 426.4 Instruments and apparatus  
     Including refractometers  
 426.6 Handbooks, tables, formulas, etc.  
 426.8.A-Z Special topics, A-Z  
 426.8.D68 Double refraction  
 426.8.N44 Negative refraction
- Scattering (General)  
 427 Periodicals, societies, congresses, serial publications  
 427.4 General works, treatises, and textbooks  
 427.6 Handbooks, tables, formulas, etc.  
 427.8.A-Z Special topics, A-Z  
 427.8.C7 Critical opalescence  
 427.8.C73 Critical scattering  
 427.8.M5 Mie scattering  
 427.8.R3 Rayleigh scattering  
 427.8.S64 Speckle  
     Cf. TA1671+ Lasers and laser applications
- Dispersion

## Optics. Light

## Physical optics

## Dispersion -- Continued

431  
435  
437

General works

Anomalous dispersion

## Incidence

Including grazing incidence

## Polarization

Cf. QD481 Stereochemistry

Cf. TP382 Saccharimetry

440  
441  
442  
443  
445

Periodicals, societies, congresses, serial publications

General works, treatises, and textbooks

Addresses, essays, lectures

Production and measurement

Rings and brushes of crystals

Cf. QD941 Optical properties of crystals

446.A-Z  
446.D5

Other special topics, A-Z

Dichroism

## Nonlinear optics. Quantum optics

For maser and laser physics see QC685+

446.15  
446.2  
446.3.A-Z  
446.3.A54  
446.3.C45  
446.3.H37  
446.3.O65  
446.3.O67  
446.3.O68  
446.3.S67

Periodicals, societies, congresses, serial publications

General works, treatises, and textbooks

Special topics, A-Z

Angular momentum

Chaos

Harmonics (Electric waves)

Optical bistability

Optical phase conjugation

Optical pumping

Squeezed light

Magnetooptics see QC675+

(447)

## Electronic optics

see QC793.5.E62+

## Fiber optics

Cf. TA1800+ Applied fiber optics

447.9  
448  
448.2

Periodicals, societies, congresses, serial publications

General works, treatises, and textbooks

Addresses, essays, lectures

## Holography

Cf. HD9707.5.H34+ Holography industry

Cf. QC244.5 Acoustic holography

Cf. TA1540+ Applied holography

449  
449.3  
449.5

General works

Electron holography

## Optical tomography

## Spectroscopy

Class here general works on the theory of spectroscopy and works intended primarily for physicists, including the spectroscopy of all electromagnetic radiations

Class here also compilations of spectra of elements, groups of elements, organic and inorganic compounds

For works on the application of spectroscopy in analytical chemistry and theoretical works intended primarily for chemists, see QD95-QD96; QD272.S6

450  
450.15  
450.3  
450.5

Periodicals, societies, congresses, serial publications

Collected works (nonserial)

Dictionaries and encyclopedias

History

## Optics. Light

## Spectroscopy -- Continued

- 451 General works, treatises, and textbooks
- 451.2 Pictorial works and atlases
- 451.4 Addresses, essays, lectures
- 451.6 Special aspects of the subject as a whole
- Study and teaching. Research
- 451.8 General works
- 451.82 Laboratory manuals
- 452 Data processing
- 452.5 Instruments and apparatus
- 453 Handbooks, tables, formulas, etc.
  - Including wavelength tables
- 454.A-Z Special types of spectra and spectroscopy, A-Z
- 454.A2 Absorption spectra
- 454.A25 Accelerator mass spectrometry
- 454.A7 Alpha ray spectroscopy see QC793.5.A22+
- 454.A8 Arc spectra
- Atomic spectroscopy
- Band spectra see QC454.M6
- 454.B39 Beam-foil spectroscopy
- Beta spectroscopy see QC793.5.B42+
- 454.B74 Broadband dielectric spectroscopy
- 454.C634 Collision spectroscopy
- 454.E4 Electron spectroscopy
- 454.E46 Emission spectroscopy
- 454.F6 Flame spectroscopy
- 454.F7 Fourier transform spectroscopy
- 454.F85 Frequency spectra
- Gamma spectroscopy see QC793.5.G32+
- 454.G3 Gas spectra
- 454.H33 Hadamard transform spectroscopy
- Hadron spectroscopy see QC793.5.H32+
- 454.H618 High resolution spectroscopy
- 454.H9 Hyperfine spectra
- In-beam gamma ray spectroscopy see QC793.5.G32+
- Infrared spectrum see QC457
- 454.I48 Integral field spectroscopy
- 454.I5 Internal reflection spectroscopy
- 454.L3 Laser spectroscopy
- 454.L58 Level-crossing spectroscopy
- 454.L63 Light-beating spectroscopy
- Luminescence spectroscopy see QC476.6
- Magnetic resonance spectroscopy see QC762
- 454.M3 Mass spectroscopy
- 454.M32 Matrix isolation spectroscopy
- 454.M5 Microwave spectroscopy
- 454.M6 Molecular spectroscopy
- Mössbauer spectroscopy see QC491
- Neutron spectroscopy see QC793.5.N462+
- Nuclear magnetic resonance spectroscopy see QC762
- 454.N8 Nuclear spectroscopy
  - Cf. QC793.5.A22+ Particle spectra
- 454.O65 Optical admittance spectroscopy
- 454.O66 Optical spectroscopy
- 454.O68 Optogalvanic spectroscopy

## Optics. Light

## Spectroscopy

## Special types of spectra and spectroscopy, A-Z -- Continued

- Particle spectra see QC793.5.A22+
- 454.P46 Photodetachment threshold spectroscopy
- 454.P48 Photoelectron spectroscopy
- 454.R3 Plasma spectroscopy see QC718.5.S6
- 454.R36 Radiofrequency spectroscopy
- 454.R4 Raman spectroscopy
- 454.R47 Reflectance spectroscopy
- 454.R5 Resonance ionization spectroscopy
- Resonant ultrasound spectroscopy
- Rotational spectra see QD481
- Scintillation spectroscopy see QC491.5+
- Solar spectroscopy (Meteorology) see QC910.2+
- Solar spectroscopy (Optics) see QC455
- 454.S7 Spark spectroscopy
- 454.T47 Terahertz spectroscopy
- 454.T75 Time-of-flight mass spectroscopy see QC454.M3
- Tunneling spectroscopy
- 454.V5 Ultraviolet spectroscopy see QC459+
- Vibrational spectra
- 454.Z44 X-ray spectroscopy see QC482.S6
- 455 ZEKE spectroscopy
- Solar spectrum
  - Including wavelength measurements and maps
  - For works relating to the constitution and physical condition of the sun see QB551
- 457 Infrared spectrum
  - Cf. TA1570+ Infrared technology
- Ultraviolet spectrum
  - Cf. TA1501+ Applied optics. Lasers
- 459 General works
- 459.5 Far ultraviolet spectrum
- Spectra of special substances
  - Special elements and groups of elements, A-Z (Table Q1 modified)
  - Colloids
  - Metal vapors
  - Metals
  - Rare earths
  - Trace elements
  - Transition metals
  - Organic compounds
    - General works, treatises, and textbooks
    - Handbooks, tables, formulas, etc.
    - Special organic compounds, A-Z
      - Alcohols
      - Alkaloids
      - Amines
      - Anthracene and derivatives
      - Anthraquinones
      - Benzene
      - Biphenyl compounds
      - Carbohydrates
      - Chelates
      - Chlorophyll
      - Chroman
- 462.A-Z
- 462.C65
- 462.M47
- 462.M49
- 462.R2
- 462.T85
- 462.T86
- 462.5
- 462.85
- 463.A-Z
- 463.A4
- 463.A47
- 463.A8
- 463.A84
- 463.A86
- 463.B4
- 463.B5
- 463.C3
- 463.C5
- 463.C54
- 463.C57

## Optics. Light

## Spectroscopy

## Spectra of special substances

## Organic compounds

## Special organic compounds, A-Z -- Continued

463.C78	Coordination compounds
463.E68	Essences and essential oils
463.E69	Esters
463.E7	Ethers and oxides
463.F55	Fluorocarbons
463.F6	Formaldehyde
463.F8	Furans
463.G84	Gums and resins
463.H4	Heterocyclic compounds
463.H9	Hydrocarbons
463.I44	Imidazole
463.I5	Indole alkaloids
463.M38	Metal carbonyls
463.N35	Naphthoquinone
463.O7	Organometallic compounds
463.O72	Organophosphorus compounds
463.O73	Organosilicon compounds
463.P46	Plasticizers
463.P5	Polymers
463.P55	Polyurethanes
463.P6	Porphyrin
463.P7	Proteins
463.P92	Pyridines
463.Q5	Quinoline
463.Q54	Quinone
	Resins see QC463.G84
463.S23	Saccharides
463.S72	Solvents
463.S8	Steroids
463.S9	Sulfur organic compounds
463.S94	Surface active agents
463.T4	Terpenes
464.A-Z	Inorganic substances, A-Z
464.A43	Alkali metal halides
464.A44	Alkaline earth ferricyanides
464.A47	Ammonia
464.B67	Borates
464.C34	Calcium fluoride
464.C37	Carbon dioxide
464.C375	Carbon disulfide
464.F45	Ferroelectric crystals
464.F87	Fused salts
464.G55	Glass
464.H93	Hydrides
464.H934	Hydrochloric acid
464.H936	Hydrogen fluoride
464.M47	Mercury compounds
464.M48	Metallic oxides
464.M53	Mica
464.N57	Nitrates
464.N574	Nitric acid

## Optics. Light

## Spectroscopy

## Spectra of special substances

## Inorganic substances, A-Z -- Continued

- 464.N577 Nitrogen dioxide
- 464.N64 Nonmetallic minerals
- 464.P44 Phosphates
- 464.P46 Phosphorus compounds
- 464.P68 Potassium hydride
- 464.P685 Potassium phosphates
- 464.Q37 Quartz
- 464.S45 Selenium compounds
- 464.S54 Silicates
- 464.S546 Silver chloride
- 464.S63 Sodium halides
- 464.S635 Sodium hydride
- 464.S637 Sodium nitroferricyanide
- 464.S94 Sulfur dioxide
- 464.T44 Tellurium chlorides
- 464.T54 Thallium chloride
- 464.U73 Uranium compounds
- 464.W37 Water
- 464.Z57 Zirconium oxide
- 465 Instruments and apparatus
  - Including absorptionmeter
- 467 Structure of spectral lines. Effect of pressure. Stark effect, etc.
  - Cf. QC675.5.Z4 Zeeman phenomenon

## Radiation physics (General)

- Cf. QA935+ Wave propagation in elastic solids
- Cf. QB531 Astronomy
- Cf. QC191 Elastic properties of solids
- Cf. QC331+ Thermal radiation
- Cf. QC787.C6 Nuclear counters, etc.
- Cf. QC793.5.A+ Radiation of special particles
- Cf. QC910.2+ Solar radiation
- Cf. QD601+ Radiation chemistry
- Cf. QP82.2.R3 Physiological effect
- 474 Periodicals, societies, congresses, serial publications
- 474.5 Collected works (nonserial)
- 475 General works, treatises, and textbooks
- 475.25 Juvenile works
- 475.5 Study and teaching. Research
- 475.6 Special aspects of the subject as a whole
- 475.7 Technique
- 475.8 Instruments and apparatus
- 476.A-Z Special topics, A-Z
- 476.C6 Coherence
  - Duality, Wave-particle see QC476.W38
- 476.S6 Sources of radiation
- 476.S86 Superradiance
- 476.W38 Wave-particle duality
  - Cf. QC401+ Theories of light
- Luminescence
  - Cf. QC976.A3 Airglow
  - Cf. QD505.8 Chemiluminescence
- 476.4 Periodicals, societies, congresses, serial publications



- Radiation physics (General)
  - Luminescence -- Continued
    - 476.45 Collected works (nonserial)
    - 476.5 General works, treatises, and textbooks
    - 476.6 Luminescence spectroscopy
    - Luminescent materials. Phosphors. Scintillators
      - Cf. QC787.S34 Scintillation counters
    - 476.7 General works
    - 476.75 Inorganic scintillators
    - 476.77 Organic scintillators
  - Photoluminescence (General)
    - 476.8 General works
    - Fluorescence
      - 477 General works
      - 477.2 Instruments and apparatus
        - Including fluorimeters
      - 477.4 Sensitized fluorescence
    - Phosphorescence
      - Cf. QD79.P4 Phosphorimetry
      - Cf. QH641 Bioluminescence
      - Cf. TK454.4.P5 Phosphors (Electrical engineering)
      - Cf. TK7871.15.P4 Phosphors (Electronics)
    - 477.8 Periodicals, societies, congresses, serial publications
    - 477.9 Collected works (nonserial)
    - 478 General works, treatises, and textbooks
  - Thermoluminescence
  - 479 Cathodoluminescence
  - 479.5 Electroluminescence
  - 480 Sonoluminescence
  - 480.2 X-rays. Roentgen rays
    - Cf. QB472+ X-ray astronomy
    - Cf. QC710+ Discharges through gases
    - Cf. QH212.X2 X-ray microscopes
    - Cf. RC78+ Medical radiography
    - Cf. RM845+ Radiotherapy
    - Cf. TR750 Radiography (Photography)
  - 480.8 Periodicals, societies, congresses, serial publications
  - 480.9 Dictionaries and encyclopedias
  - 481 General works, treatises, and textbooks
  - 481.5 Instruments and apparatus
    - Cf. RC78.5 Radiography
    - Cf. RM862.5 Radiotherapy
    - Cf. TR750 Applied photography
- 482.A-Z Special topics, A-Z
  - Crystallography see QD945
- 482.D5 Diffraction
- 482.G68 Grenz rays
- 482.P6 Polarization
- 482.S3 Scattering
- 482.S6 Spectroscopy
- Study and teaching. Research
  - 482.2 General works
  - 482.3 Experiments
- (483) Electric radiations (General)
  - see QC660.5+
- 484 Blackbody radiation

## Radiation physics (General) -- Continued

## Bremsstrahlung

- 484.2 Periodicals, societies, congresses, serial publications
- 484.3 General works, treatises, and textbooks
- 484.5 Study and teaching. Research
- 484.6.A-Z Special topics, A-Z
- 484.6.15 Inner Bremsstrahlung

## Cosmic ray physics

- Cf. QB463+ Nuclear astrophysics
- Cf. QC770+ Nuclear physics
- Cf. QC809.V3 Van Allen radiation belts
- 484.8 Periodicals, societies, congresses, serial publications
- 484.85 Collected works (nonserial)
- 484.9 History
- 485 General works, treatises, and textbooks
- 485.4 Popular works
- 485.42 Juvenile works
- 485.5 Addresses, essays, lectures
- 485.55 Special aspects of the subject as a whole
- Observations. Data summaries
- 485.57 General works, treatises, and textbooks
- 485.575.A-Z By region or country, A-Z
- 485.6 Technique
- 485.7 Instruments and apparatus
  - Cf. QC785.5+ Nuclear instruments and apparatus
- 485.75 Handbooks, tables, formulas, etc.
- 485.8.A-Z Special topics, A-Z
- 485.8.B8 Bursts
- 485.8.F6 Cosmic ray particles see QC793.3.C6
- 485.8.O7 Forbush decreases
- 485.8.S5 Origin
- 485.8.S8 Showers
- 485.8.S8 Stars
- 485.8.V3 Variations, Diurnal, etc.
  - Including effects due to altitude, longitude, etc.
- 485.9.A-Z Special types, A-Z
- 485.9.A8 Atmospheric cosmic rays
- 485.9.G34 Galactic cosmic rays
- 485.9.P7 Primary cosmic rays
- 485.9.S4 Secondary cosmic rays
- 485.9.S6 Solar cosmic rays
- 485.9.U6 Underground cosmic rays
- Other radiations
- Alpha radiations see QC793.5.A22+
- Beta rays see QC793.5.B42+
- Cherenkov radiation
- 490.4 General works, treatises, and textbooks
- Instruments and apparatus see QC787.C6
- Gamma rays see QC793.5.G32+
- Infrared rays. Infrared spectrometry see QC457
- Radiation and spectra of isotopes see QC795.8.S6
- 491 Mössbauer effect. Mössbauer spectroscopy
- Scintillation spectroscopy
- 491.5 Periodicals, societies, congresses, serial publications
- 492 General works, treatises, and textbooks
- Instruments and apparatus see QC787.S34

## Radiation physics (General)

Other radiations -- Continued

Van Allen radiation see QC809.V3

## Color

Cf. BF789.C7 Psychology

Cf. ML3840 Music and color

Cf. QD113 Colorimetry in analytic chemistry

Cf. QD473 Color in relation to atomic structure

Cf. QP483 Physiological effect

Cf. RM840 Phototherapy

Cf. TR510+ Color photography

Cf. TR977 Photomechanical color processes

494 Periodicals, societies, congresses, serial publications

494.15 Collected works (nonserial)

494.2 Dictionaries and encyclopedias

494.3 Nomenclature, terminology, notation, abbreviations

494.7 History

494.8 Early works through 1800

495 General works, treatises, and advanced textbooks

495.15 Elementary textbooks

495.2 Pictorial works and atlases

495.3 Popular works

495.5 Juvenile works

495.7 Addresses, essays, lectures

495.8 Special aspects of the subject as a whole

Study and teaching. Research

496 General works

496.15 Outlines, syllabi

496.3 Experiments

496.4 Laboratory manuals

496.6 Instruments and apparatus

Including colorimeters

496.8 Handbooks, manuals, etc.

496.9 Miscellany and curiosa

## Electricity and magnetism

Cf. QC960.5+ Atmospheric electricity

Cf. TK1+ Electrical engineering

## Electricity

Including works that deal collectively with electricity and magnetism

For electric properties of solids see QC176.8.E35

501 Periodicals, societies, congresses, serial publications

503 Collected works (nonserial)

505 Dictionaries and encyclopedias

506 Philosophy. Theory

506.5 Nomenclature, terminology, notation, abbreviations

507 History

## Biography

Collective

514 Individual, A-Z

e.g.

515.A6 Ampère

515.O4 Ohm

## Early works

516 Through 1700

517 1701-1850

General works, treatises, and advanced textbooks

## Electricity and magnetism

## Electricity

General works, treatises, and advanced textbooks -- Continued

1851-1969

- 518            Treatises
- 521            Descriptive and experimental works
- 522            1970-
- 523            Elementary textbooks
- 527            Popular works
- 527.2         Juvenile works
- 527.4         Addresses, essays, lectures
- 527.5         Special aspects of the subject as a whole
- 528.A-Z       Special topics, A-Z
- 528.E4         Electromechanical analogies
- Maxwell's equations see QC669+
- 528.V4         Vector theory
- 529            Handbooks, tables, formulas, etc.
- Study and teaching. Research
  - For programmed texts see QC518+
- 530            General works
- 531            Outlines, syllabi
- 532            Problems, exercises, examinations
- 533            Experiments
- 534            Laboratory manuals
- Electric measurements
  - Cf. TK275+ Electrical engineering
- 535            General works
- 536            Electric units
- 537            Standards
- Laboratories
  - General works
  - By region or country, A-Z
    - Subarrange each country by Table Q6
- Instruments and apparatus (General)
- 543            General works, treatises, and textbooks
- 544.A-Z       Special instruments, A-Z
  - Ammeter
    - see QC645
  - (544.C3)      Cathode ray tubes
    - see TK7871.73
  - Coils see QC645
  - 544.C8        Current balance
  - Cyclotrons see QC787.C8
  - Decremeters see QC667+
  - Electric meters see TK301+
  - 544.E3        Electrodynamometer
  - 544.E4        Electrometer
  - 544.E45       Electophori
  - 544.E5        Electrostatic lenses
  - 544.G2        Galvanometer
  - (544.G3)      Gas tubes
    - see TK7871.8+
  - 544.P5        Phonic wheel
  - 544.P8        Potentiometer
  - 544.Q3        Quadruple lenses

## Electricity and magnetism

## Electricity

## Instruments and apparatus (General)

## Special instruments, A-Z -- Continued

(544.V3)

## Vacuum tubes

see TK7871.72+

561

## Miscellany and curiosa

## Electrostatics. Frictional electricity

Cf. QA825+ Attractions and potential

Cf. QC960.5+ Atmospheric electricity

Cf. TP156.E5 Electrostatic separation

570

## Periodicals, societies, congresses, serial publications

571

## General works, treatises, and textbooks

571.4

## Juvenile works

571.5

## Addresses, essays, lectures

## Study and teaching. Research

572

## General works

572.4

## Experiments

573

## Instruments and apparatus

Including frictional and induction machines

577

## Electrocapillary phenomena

581.A-Z

## Other topics, A-Z

581.E4

## Electric charge and distribution

581.I5

## Induction

581.P6

## Potential difference

581.V6

## Volta effect

## Dielectrics

Cf. TK3401+ Electric insulation

584

## Periodicals, societies, congresses, serial publications

584.2

## Collected works (nonserial)

585

## General works, treatises, and textbooks

585.4

## Addresses, essays, lectures

585.5

## Study and teaching. Research

585.7.A-Z

## Special topics, A-Z

585.7.B7

## Breakdown

585.7.C6

## Constant

585.7.D5

## Dielectrophoresis

585.7.E43

## Electric discharge

585.7.H4

## Heating

585.7.L6

## Loss

585.7.M3

## Magnetic properties

585.7.O6

## Optical properties

585.7.R3

## Radiation effects

585.7.R4

## Relaxation

585.75.A-Z

## Specific dielectric substances, A-Z

585.75.S55

## Silica

585.75.T58

## Titanates

585.8.A-Z

## Special types of dielectrics, A-Z

585.8.E4

## Electrets

585.8.G38

## Gaseous

585.8.L56

## Liquid

589

## Measurement of capacity

Cf. TK2805 Condensers (Dynamoelectric machinery)

Cf. TK7872.C65 Condensers (Electronics)

## Electricity and magnetism

## Electricity

## Electrostatics. Frictional electricity -- Continued

- 595 Pyroelectricity  
Cf. QD939 Electric properties of crystals  
Cf. TK7872.O7 Oscillators
- 595.5 Piezoelectricity  
Cf. TK7872.P54 Piezoelectric devices
- Ferroelectricity  
Cf. QC715.17 Photoferroelectric effect  
Cf. QD939 Electric properties of crystals
- 596 Periodicals, societies, congresses, serial publications
- 596.5 General works, treatises, and textbooks
- 596.9 Addresses, essays, lectures
- Electric current (General)  
Cf. QC641 Alternating currents  
Cf. QD551+ Electrolysis  
Cf. TK454+ Electric circuits and networks
- 601 General works
- 607 Ohm's law
- (610) Conduction in gases and vapors  
see QC710+
- Electric conductivity  
Cf. TK3301+ Electric conductors
- 610.3 Periodicals, societies, congresses, serial publications
- 610.4 General works, treatises, and textbooks
- Electric resistance  
Cf. QC761+ Magnetic induction  
Cf. QC809.E15 Earth resistance  
Cf. TK7872.R4 Electric resistors
- 610.6 General works
- 610.7 Magnetoresistance
- Semiconductor physics  
Class here general works on the physical properties of semiconductor materials  
For works on semiconductor materials used in electronic engineering see TK7871.85+  
Cf. QC176.8.E4 Solid-state electronics
- 610.9 Periodicals, societies, congresses, serial publications
- 610.92 Collected works (nonserial)
- 610.94 Nomenclature, terminology, notation, abbreviations
- 610.96 History
- 611 General works, treatises, and textbooks
- 611.2 Addresses, essays, lectures
- 611.24 Special aspects of the subject as a whole  
Study and teaching. Research
- 611.26 General works
- 611.28 Problems, exercises, examinations
- 611.3 Laboratory manuals
- 611.4 Instruments and apparatus
- 611.45 Handbooks, tables, formulas, etc.
- 611.6.A-Z Special topics, A-Z
- 611.6.A36 Acoustic properties
- 611.6.D4 Defects
- 611.6.D5 Diffusion
- 611.6.D6 Doping
- 611.6.E43 Electron-hold droplets
- 611.6.E45 Electron transport

## Electricity and magnetism

## Electricity

## Electric current (General)

## Electric conductivity

## Semiconductor physics

## Special topics, A-Z -- Continued

Energy-band theory see QC176.8.E4

611.6.G3

Galvanometric effects

611.6.H6

Holes

611.6.H67

Hot carriers

611.6.J85

Junctions

611.6.M64

Molecular beam epitaxy

611.6.O6

Optical effects

611.6.P52

Photoelectromagnetic effects

611.6.P55

Plasma effects

611.6.Q35

Quantum dots

611.6.Q36

Quantum optics

611.6.R3

Radiation effects

611.6.R43

Recombination

Reliability see TK7871.85+

611.6.S9

Surface properties

611.6.T4

Thermal properties

611.8.A-Z

## Specific semiconducting substances and types, A-Z

611.8.A44

Alloys

611.8.A5

Amorphous substances

611.8.C34

Cadmium arsenide

611.8.C45

Chalcopyrite

611.8.C6

Compensated semiconductors

611.8.C64

Compound semiconductors

611.8.D66

Doped semiconductors

611.8.G3

Gallium arsenide

611.8.G4

Germanium

611.8.I52

Indium arsenide

611.8.L4

Lead chalcogenides

611.8.L5

Liquids

611.8.L68

Low-dimensional semiconductors

611.8.M25

Magnetic substances

611.8.M27

Many-valley semiconductors

611.8.M38

Mercury telluride

611.8.M4

Metal oxides

611.8.N33

Nanocrystals

611.8.N35

Narrow gap semiconductors

611.8.O68

Ore minerals

611.8.O7

Organic substances

611.8.P64

Polycrystalline semiconductors

611.8.R37

Rare earths

611.8.S44

Selenium

611.8.S45

Semimetals

611.8.S5

Silicon

611.8.S86

Superlattices

611.8.T44

Tellurium

611.8.W53

Wide gap semiconductors

## Superconductivity physics

Cf. QC175.4+ Superfluid physics

611.9

Periodicals, societies, congresses, serial collections

611.917

History

## Electricity and magnetism

## Electricity

## Electric current (General)

## Electric conductivity

## Superconductivity physics -- Continued

- 611.92 General works, treatises, and textbooks
- 611.922 Juvenile works
- 611.924 Handbooks, tables, formulas, etc.
- Superconducting materials. Superconductors
  - Cf. QC761.3 Superconducting magnets
  - Cf. TK7872.C77 Cryoelectronic devices
  - Cf. TK7872.S8 Engineering
  - Cf. TK7895.C7 Cryotrons
- 611.94 Periodicals, societies, congresses, serial collections
- 611.95 General works, treatises, and textbooks
- Study and teaching. Research
  - 611.96 General works
    - By region or country
      - United States
        - 611.962 General works
        - 611.964.A-Z By region or state, A-Z
        - 611.966.A-Z Other regions or countries, A-Z
    - 611.97.A-Z Special topics, A-Z
      - 611.97.C54 Chemistry
      - 611.97.E69 Equilibrium
        - Including nonequilibrium
      - 611.97.F58 Fluctuations
      - 611.97.M34 Magnetic properties
      - Nonequilibrium see QC611.97.E69
      - 611.97.R33 Radiation effects
      - 611.97.S64 Spectra
      - 611.97.T46 Temperature effects
        - Including transition temperature
      - 611.97.T54 Thermal properties
      - Transition temperature see QC611.97.T46
      - 611.97.T86 Tunneling
- 611.98.A-Z Special superconducting materials or types of superconductors, A-Z
  - 611.98.A44 Alloys
  - 611.98.A48 Aluminum
  - 611.98.A58 Anyon superconductivity
  - 611.98.C47 Ceramic superconductors
  - 611.98.C53 Chalcogenides
  - 611.98.C63 Composites
  - 611.98.C64 Copper
  - 611.98.D33 d-band metals
  - 611.98.D57 Dirty superconductors
  - 611.98.H54 High temperature superconductors
  - 611.98.M34 Magnetic
  - 611.98.N54 Niobium
  - 611.98.O74 Organic superconductors
  - 611.98.R88 Ruthenium
  - 611.98.T37 Ternary superconductors
  - 611.98.T55 Thin film superconductors
  - 611.98.T73 Transition metal oxides
  - 611.98.T86 Type I superconductors
  - 611.98.T87 Type II superconductors



## Electricity and magnetism

## Electricity

## Electric current (General)

## Electric conductivity

## Superconductivity physics

## Superconducting materials. Superconductors

## Special superconducting materials or types of superconductors, A-Z -- Continued

611.98.V35

Vanadium

611.98.Z56

Zinc

612.A-Z

## Other special topics, A-Z

612.H3

## Hall effect

Cf. TK7872.H3 Hall effect devices

612.P5

## Photoconductivity

Cf. TK8330+ Photoconductive cells

612.P6

## Potential barrier

612.S6

## Skin effect

## Superconductivity see QC611.9+

613

## Electric resonance

Cf. QC762 Nuclear magnetism

Cf. QC794.6.R4 Nuclear interaction

615

## Measurements of currents

Including ammeters, voltmeters

618

## Electromotive force

Including voltmeters

## Thermoelectricity. Thomson effect. Peltier effect

Cf. TK2950+ Applied thermoelectricity

621

## General works

623

## Heating effects of currents

625

## Electrokinetics

## Electrodynamics

Cf. QA920 Magnetohydrodynamic theory

Cf. QC717+ Ion flow dynamics

Cf. QC718.5.M36 Magnetohydrodynamics (Plasma physics)

Cf. QC809.E55 Geophysics

630

## Periodicals, societies, congresses, serial publications

630.15

## Collected works (nonserial)

630.2

## Dictionaries and encyclopedias

630.5

## History

631

## General works, treatises, and textbooks

631.2

## Addresses, essays, lectures

631.3

## Special aspects of the subject as a whole

## Study and teaching. Research

631.7

## General works

631.75

## Problems, exercises, examinations

631.8

## Laboratory manuals

638

## Inductance. Induction

641

## Alternating currents (Theory)

Cf. TK1141+ Alternating current engineering

Cf. TK2711+ Alternating current machinery

## Electric corona

642.5

## Periodicals, societies, congresses, serial publications

643

## General works, treatises, and textbooks

643.5

## Instruments and apparatus

643.7.A-Z

## Special topics, A-Z

643.7.D5

## Discharge

643.7.P7

## Pressure

## Electricity and magnetism

## Electricity

## Electrodynamics -- Continued

- 645 Electric coils  
Including induction coils  
Cf. TK2391 Electric coils (Dynamoelectric machinery)  
Cf. TK2805 Condensers (Dyanmoelectric machinery)  
Cf. TK7872.C56 Electronics
- 648 Vacuum polarization
- Electric oscillations. Electric waves  
Including electromagnetic waves  
Cf. QB460+ Astrophysics  
Cf. QC809.E55 Cosmic electrodynamics
- 660.5 Periodicals, societies, congresses, serial publications
- 661 General works, treatises, and textbooks
- 662 Addresses, essays, lectures
- 665.A-Z Special topics, A-Z
- 665.D3 Damping
- 665.D5 Diffraction
- 665.D54 Diffusion
- 665.E36 Electric displacement
- 665.E38 Electric fields
- 665.E4 Electromagnetic fields
- 665.E45 Electromechanical analogies
- 665.P5 Photoabsorption
- 665.P6 Polarization
- 665.Q3 Quadrupole moment
- 665.S3 Scattering
- 665.T7 Transmission
- 665.V4 Velocity
- Study and teaching. Research
- 666 General works
- 666.5 Problems, exercises, examinations
- Instruments and apparatus  
Including decemeters
- 667 General works
- 668.A-Z Special equipment, A-Z
- 668.A54 Anechoic chambers. Reverberation chambers  
Reverberation chambers see QC668.A54
- Electromagnetic theory  
Including Maxwell's equations
- 669 Periodicals, societies, congresses, serial publications
- 670 General works, treatises, and textbooks
- Study and teaching. Research
- 670.7 General works
- 670.75 Problems, exercises, examinations
- 671 Aberrations and moving media  
Cf. QB163 Correction of astronomical observations
- Electrooptics (General)  
Cf. TA1750+ Applied electrooptics
- 673 General works
- 673.5.A-Z Special topics, A-Z
- 673.5.K4 Kerr effect
- Magnetooptics (General)
- 675 General works
- 675.5.A-Z Special topics, A-Z

## Electricity and magnetism

## Electricity

Electric oscillations. Electric waves

Electromagnetic theory

Magnetooptics (General)

Special topics, A-Z -- Continued

675.5.F3

Faraday effect

675.5.Z4

Zeeman effect

675.8

Microwave optics (General)

Radio waves (Theory)

Cf. QC972.6+ Radio meteorology

Cf. TK6540+ Radio engineering

676

Periodicals, societies, congresses, serial publications

676.4

General works, treatises, and textbooks

676.6

Addresses, essays, lectures

676.7.A-Z

Special topics, A-Z

676.7.D5

Diffraction

676.7.S3

Scattering

676.7.S35

Scintillation

676.7.T7

Transmission

Microwaves (Theory)

Cf. QC718.5.M5 Plasma physics

Cf. TK7871.4 Masers

Cf. TK7876+ Electronics

677

Periodicals, societies, congresses, serial publications

678

General works, treatises, and textbooks

678.2

Addresses, essays, lectures

Study and teaching. Research

678.4

General works

678.6

Laboratory manuals

Quantum electrodynamics

Cf. QC793.3.E4 Elementary particle physics

679

Periodicals, societies, congresses, serial publications

679.6

Collected works (nonserial)

680

General works, treatises, and textbooks

680.5

Addresses, essays, lectures

Quantum electronics

Including maser and laser physics

Cf. TA1671+ Lasers

Cf. TK7871.4 Masers

685

Periodicals, societies, congresses, serial publications

686

Collected works (nonserial)

687

Dictionaries and encyclopedias

687.2

History

688

General works, treatises, and textbooks

689

Addresses, essays, lectures

689.5.A-Z

Special topics, A-Z

689.5.L35

Laser manipulation

689.5.L37

Laser pulses

689.55.A-Z

Special types of lasers, A-Z

689.55.F75

Free electron lasers

689.55.P53

Plasma lasers

689.55.S45

Semiconductor lasers

700

Field emission

Electric discharge

701

General works, treatises, and textbooks

## Electricity and magnetism

## Electricity

## Electric discharge -- Continued

## Ions. Ionization. Thermionic emission (General)

Cf. QC972.6+ Radio meteorology

Cf. QD561+ Electrochemistry

Cf. QD601+ Radiochemistry

701.7 Periodicals, societies, congresses, serial publications

702 General works, treatises, and textbooks

702.3 Instruments and apparatus

Cf. QC787.I6 Ionization chambers

702.5 Ionization of specific gases, liquids, etc.

702.7.A-Z Other special topics, A-Z

702.7.A9 Auger effect

702.7.B65 Bombardment

702.7.E38 Electron impact ionization

702.7.E4 Emission, Secondary ion

702.7.H42 Heavy ions

702.7.I55 Ion implantation

702.7.I57 Ion swarms

Magnetic ions see QC754.2.M333

702.7.M84 Multiply charged ions

702.7.N4 Negative ions. Anions

702.7.P48 Photoionization

Class here works on the physics of ionization produced by photons of light, X-rays or gamma rays.

For general works on chemical and physical aspects of photoionization see QD716.P48

702.7.P6 Positive ions

702.7.R4 Recombination of ions

702.7.S3 Scattering

Secondary ion emission see QC702.7.E4

702.7.T73 Trapped ions

## Spark discharge (General)

Cf. QC454.A+ Spectra of special elements

Cf. QC966+ Lightning

703 General works

703.5 Breakdown of spark

703.7 Exploding wire phenomenon

705 Arc discharge

Cf. TK4311+ Arc lighting

## Electric discharge through gases

Including cathode rays, canal rays

Cf. QC480.8+ X-rays

Cf. QC793.5.E62+ Electron emission

Cf. TK7871.7+ Electron tubes

710 Periodicals, societies, congresses, serial publications

711 General works, treatises, and textbooks

711.3 Addresses, essays, lectures

711.4 Special aspects of the subject as a whole

711.6.A-Z Electric discharge through specified gases, A-Z

711.6.A7 Argon

711.6.O9 Oxygen

711.8.A-Z Special topics, A-Z

711.8.A34 Afterglow

711.8.B7 Breakdown of spark

711.8.D5 Dissociation

## Electricity and magnetism

## Electricity

## Electric discharge

## Electric discharge through gases

## Special topics, A-Z -- Continued

711.8.G5

Glow discharge

711.8.P6

Polarization

711.8.R35

Radio frequency discharges

## Photoelectricity. Photoelectric cells

Including other effects of light, X-rays, etc., on discharge

Cf. QC391 Photometry

Cf. QC793.5.P42+ Photons

Cf. QC794.8.P4 Photonuclear interactions

Cf. QD701+ Photochemistry

Cf. TK8300+ Optoelectronic devices. Photoelectronic devices

715

General works

715.15

Photoemission

715.17

Photoferroelectric effect

715.2

Photoelectric properties of special substances

Including sensitivity

715.4

Photoelectric cells

Including photovoltaic effect

## Ion flow dynamics

717

General works

717.5.A-Z

Special topics, A-Z

717.5.I6

Ionic mobility

## Plasma physics. Ionized gases

Cf. QA920 Magnetohydrodynamics

Cf. QC790.95+ Nuclear fusion

Cf. QC809.P5 Plasma (Cosmic physics)

Cf. TA2001+ Plasma engineering

Cf. TK2970 Magnetohydrodynamic generators

Cf. TL783.6 Plasma rockets

717.6

Periodicals, societies, congresses, serial publications

717.8

Collected works (nonserial)

718

General works, treatises, and textbooks

718.15

Addresses, essays, lectures

718.4

Special aspects of the subject as a whole

718.5.A-Z

Special topics, A-Z

Accelerators see QC718.5.M36

Collisions with matter see QC718.5.P5

Collisions with particles see QC718.5.P55

Conductivity see QC718.5.T7

718.5.C65

Confinement

Controlled fusion see QC791.7+

718.5.C9

Cyclotron waves

718.5.D38

Dense plasma focus

718.5.D4

Density

718.5.D5

Diagnostics

Diffusion see QC718.5.T7

718.5.D7

Drift

718.5.D84

Dusty plasmas

718.5.D9

Dynamics

718.5.E37

Electric fields

718.5.E4

Electrodynamics

718.5.E45

Electromagnetics

## Electricity and magnetism

## Electricity

## Plasma physics. Ionized gases

## Special topics, A-Z -- Continued

Electron oscillations and resonances see QC718.5.W3

718.5.E48

Electrostatics

718.5.E66

Equilibrium

Including nonequilibrium

718.5.G95

Gyrotrons

Heat conduction see QC718.5.T7

718.5.H5

High temperature

718.5.H9

Hydrodynamics

Instabilities see QC718.5.S7

Ion waves see QC718.5.W3

Kinetics see QC718.5.T5

718.5.L3

Laser-produced plasmas

718.5.L58

Low-pressure plasmas

718.5.L6

Low temperature

718.5.M3

Magnetic fields

718.5.M36

Magnetohydrodynamics

Including plasma accelerators

Cf. QA920 Magnetohydrodynamic theory

718.5.M5

Microwaves

718.5.N4

Neutrality

Including nonneutrality

Nonequilibrium see QC718.5.E66

718.5.O6

Optical phenomena

Oscillations see QC718.5.W3

718.5.P45

Pinch effect

Plasma accelerators see QC718.5.M36

718.5.P5

Plasma reactions with matter

718.5.P55

Plasma reactions with particles

Plasma resonance see QC718.5.W3

718.5.P58

Plasmoids

718.5.Q17

Q-machines

718.5.R3

Radiation

718.5.S4

Sheaths

Cf. TL3028 Space vehicle communication systems

Shock waves see QC718.5.W3

718.5.S6

Spectroscopy

718.5.S7

Stability

Including instability

718.5.S78

Statistical behavior

718.5.S83

Strongly coupled plasmas

718.5.T5

Thermodynamics

718.5.T7

Transport

Including diffusion, conductivity, heat conductance, velocity

718.5.T8

Turbulence

Velocity see QC718.5.T7

718.5.W3

Waves

## Study and teaching. Research

718.6

General works

718.612

Problems, exercises, examinations

718.613

Experiments

## Laboratories

718.614

General works

## Electricity and magnetism

## Electricity

Plasma physics. Ionized gases

Laboratories -- Continued

718.615.A-Z

Individual laboratories, A-Z

718.62

Technique

718.64

Instruments and apparatus

718.7

Handbooks, tables, formulas, etc.

718.8

Miscellany and curiosa

(721)

Physics of electrons, protons, and other particles

see QC793+

## Magnetism

Cf. QB462.8 Cosmic magnetic fields

Cf. QC176.8.M3 Solid-state physics

Cf. QC718.5.M36 Plasma physics

Cf. QC811+ Geomagnetism

Cf. QD591 Magnetochemistry

750

Periodicals, societies, congresses, serial publications

750.15

Collected works (nonserial)

750.3

Philosophy. Theory

750.4

History

751

Early works through 1800

General works, treatises, and textbooks

753

1801-1969

753.2

1970-

753.5

Popular works

753.7

Juvenile works

753.8

Recreations

Including amateur experiments

753.9

Addresses, essays, lectures

754

Special aspects of the subject as a whole

754.2.A-Z

Special topics, A-Z

754.2.B35

Band theory

754.2.E3

Electromechanical analogies

754.2.H9

Hysteresis

754.2.M3

Magnetic fields

Cf. QC809.M25 Cosmic magnetism

754.2.M32

Magnetic force

754.2.M33

Magnetic induction

754.2.M333

Magnetic ions

754.2.M336

Magnetic structure

754.2.M34

Magnetization

754.2.M35

Magnetostatics

754.2.M36

Magnetostriction

754.2.P4

Permeability

754.2.P45

Photomagnetic effect

754.2.P6

Potential

754.2.Q34

Quantum theory

754.2.S8

Susceptibility

Therapeutic use see RZ422

Study and teaching. Research

755

General works

755.2

Problems, exercises, examinations

755.3

Experiments

Cf. QC753.8 Amateur experiments

755.4

Laboratory manuals

- Electricity and magnetism
  - Magnetism -- Continued
    - Magnetic measurements
      - 755.6 General works
      - 755.65 Units and standards
    - Instruments and apparatus
      - 755.67 General works, treatises, and textbooks
      - 755.675.A-Z Special instruments, A-Z
      - 755.675.H9 Hysteresigraph
      - 755.7 Handbooks, tables, formulas, etc.
      - 755.8 Miscellany and curiosa
    - Magnets
      - 756.7 Periodicals, societies, congresses, serial publications
      - 757 General works, treatises, and textbooks
      - 757.5 Juvenile works
      - 757.7 Addresses, essays, lectures
      - 757.8 Bonded magnets
      - 757.9 Permanent magnets
      - 757.92 Wiggler magnets
    - Electromagnetism
      - Cf. QH656 Magnetic fields (Cytology)
      - 759.6 Periodicals, societies, congresses, serial publications
      - 759.8 History
      - 760 General works, treatises, and textbooks
      - 760.2 Juvenile works
      - 760.25 Addresses, essays, lectures
      - 760.4.A-Z Special topics, A-Z
      - 760.4.M33 Magnetic monopoles
      - 760.4.M37 Mathematics
      - Study and teaching. Research
        - 760.5 General works
        - 760.52 Problems, exercises, examinations
        - 760.54 Data processing
        - 760.6 Handbooks, tables, formulas, etc.
      - Electromagnets
        - Cf. QC787.C3 Calutrons
        - Cf. TJ1366 Lifting magnets
        - Cf. TK454.4.E5 Electrical engineering
- 761 General works
- 761.2 Juvenile works
- 761.3 Superconducting magnets
- Paleomagnetism see QE501.4.P35
- 761.4 Ferrimagnetism
  - Cf. QC766.F3 Ferrites
- 761.5 Ferromagnetism. Antiferromagnetism
- 761.8 Thermomagnetism
- Nuclear magnetism
  - 761.9 General works
  - 762 Nuclear magnetic resonance
    - 762.6.A-Z Other special topics, A-Z
    - 762.6.A25 Acoustic nuclear magnetic resonance
    - 762.6.E45 Electron nuclear double resonance
    - 762.6.G53 Giant nuclear magnetic resonance
    - 762.6.H94 Hyperfine interactions
    - 762.6.M34 Magnetic resonance imaging
    - 762.6.R44 Relaxation



- Electricity and magnetism
  - Magnetism
    - Nuclear magnetism
      - Nuclear magnetic resonance
      - Other special topics, A-Z -- Continued
        - 762.6.S64 Spin-lattice relaxation
        - 762.6.S65 Spin waves
        - 762.6.T73 Translational motion
    - Paramagnetism
      - 762.9 General works
      - 763 Electron paramagnetic resonance
      - 764 Diamagnetism
    - Magnetic materials
      - Cf. TK454.4.M3 Electrical engineering
      - 764.5 Periodicals, societies, congresses, serial publications
      - 764.52 Dictionaries and encyclopedias
      - 765 General works
      - 766.A-Z Special magnetic materials, A-Z
        - Alloys, Magnetic see QC766.M34
        - Amorphous substances
        - 766.A4 Cobalt
        - 766.C6 Ferrites
        - 766.F3 Fluids, Magnetic see QC766.M36
        - 766.I7 Iron
        - 766.M34 Magnetic alloys
        - 766.M36 Magnetic fluids
        - 766.M4 Metallic oxides
        - 766.R3 Rare earths
        - 766.T56 Thorium
  - Nuclear and particle physics. Atomic energy. Radioactivity
    - Cf. QC170+ Constitution of matter. Atomic physics
    - Cf. QD601+ Radiochemistry
    - Cf. TK9001+ Nuclear engineering
    - Cf. UG1282.A8 Atomic bombs
    - 770 Periodicals, societies, congresses, serial publications
    - 771 Collected works (nonserial)
    - 772 Dictionaries and encyclopedias
    - Communication of information
      - 772.2 General works
      - 772.4 Information services
    - History
      - 773.A1 Development and projects leading to production of first atomic bombs
      - 773.A2-Z General works
      - 773.3.A-Z By region or country, A-Z
    - Biography
      - 774.A2 Collective
      - 774.A3-Z Individual, A-Z
    - 774.2 Directories
    - 776 General works, treatises, and advanced textbooks
    - 777 Elementary textbooks
    - 778 Popular works
    - 778.5 Juvenile works
    - 780 Addresses, essays, lectures
    - 782 Special aspects of the subject as a whole
    - 782.5.A-Z Special topics, A-Z

- Nuclear and particle physics. Atomic energy. Radioactivity  
 Special topics, A-Z -- Continued
- 782.5.P4      Photography  
                     Cf. QC787.N78 Nuclear emulsions
- 783            Handbooks, tables, formulas, etc.  
                     Data processing
- 783.3            General works, treatises, and textbooks
- 783.4            Laboratory manuals
- 783.5            Pictorial works and atlases
- Study and teaching
- 783.8            General works
- 783.85           Problems, exercises, examinations
- 784            Laboratory manuals
- 784.5            Atomic and nuclear measurements  
                     Including atomic units
- Instruments and apparatus
- 785.5            Periodicals, societies, congresses, serial publications
- 785.7            Collected works (nonserial)
- 786            General works, treatises, and textbooks
- 786.2            Addresses, essays, lectures
- Nuclear reactors for research. Reactor physics  
                     Cf. TK9202+ Nuclear reactor engineering
- 786.4            Periodicals, societies, congresses, serial publications
- History
- 786.42            General works
- 786.43.A-Z        By region or country, A-Z
- 786.45            Directories
- 786.5            General works, treatises, and textbooks
- 786.55            Addresses, essays, lectures
- 786.6.A-Z        Special topics, A-Z  
                     Accidents see TK9001+
- 786.6.C6         Computer programs
- 786.6.D4         Design and construction
- Fuel elements see TK9360+
- 786.6.K5         Kinetics
- 786.6.P68        Power distribution
- 786.6.S73        Statistical methods
- 786.6.T4         Thermal neutrons  
                     Cf. QC793.5.T42+ Elementary particle physics
- Study and teaching. Research
- 786.7            General works
- 786.75            Experiments
- 786.8            Handbooks, tables, formulas, etc.
- 787.A-Z         Other instruments, A-Z
- 787.B4            Betatrons
- Bevatron see QC787.S9
- 787.B8            Bubble chambers
- 787.C3            Calutrons
- 787.C56          Cloud chambers
- 787.C58          Coincidence circuits
- Cold cathode tubes see TK7871.84.C6
- 787.C59          Colliders
- 787.C6            Counters  
                     Cf. TK9180 Nuclear engineering
- 787.C8            Cyclotrons
- 787.D35          Damping rings

## Nuclear and particle physics. Atomic energy. Radioactivity

## Instruments and apparatus

## Other instruments, A-Z

- 787.D74 Drift chambers
- 787.E37 Electret ionization chambers
- 787.E39 Electron accelerators
- 787.E4 Electrostatic accelerators
- 787.E42 Electrostatic analyzers
- 787.F75 Fricke dosimeters
- 787.G32 Gamma ray detectors
- 787.G34 Gas calorimeters
- 787.G4 Geiger-Müller counters
- 787.H53 High-brightness accelerators
- 787.H54 High pressure ionization chambers
- 787.I6 Ionization chambers
- 787.K55 Klystrons
- 787.L5 Linear accelerators
- 787.L53 Linear colliders
- 787.M3 Magnetic analyzers
- 787.N78 Nuclear emulsions
- 787.N83 Nuclear track detectors
- 787.O6 Optical instruments
- 787.P3 Particle accelerators (General)
  - Cf. TK9340 Nuclear engineering
- 787.P34 Particle analyzers
- Photoelectric multipliers see TK8314
- 787.P46 Photon detectors
- 787.P69 Proportional counters
- 787.P7 Proton accelerators
- 787.P73 Proton antiproton colliders
  - Including proton synchrotron colliders
- 787.P8 Pulse height analyzers
- 787.R43 Recirculating electron accelerators
- 787.S3 Scanning systems
- 787.S34 Scintillation counters
- 787.S4 Sector focused cyclotrons
- 787.S45 Self-quenching counters
- 787.S55 Spark chambers
- 787.S6 Spectrometer
- 787.S8 Storage rings
- 787.S83 Supercolliders
  - Including Superconducting Super Collider
- 787.S85 Synchrocyclotrons
- 787.S9 Synchrotrons
- 787.T35 Targets
- 787.V3 Van de Graaff generators
- 787.V45 Vertex detectors

## Research

Including laboratories and projects

- 788 General works
- 789.2.A3-Z By region or country, A-Z
  - Subarrange each country by Table Q6

## Nuclear fission

- 789.7 Periodicals, societies, congresses, serial publications
- 790 General works, treatises, and textbooks
- 790.3 Addresses, essays, lectures

- Nuclear and particle physics. Atomic energy. Radioactivity
- Nuclear fission -- Continued
- 790.4.A-Z Special topics, A-Z
- 790.4.A6 Angular distribution
- Delayed neutrons see QC793.5.D42+
- 790.4.E6 Energy loss
- 790.4.F5 Fission products (General)
- Neutron transport theory see QC793.3.T7
- 790.4.P4 Photofission
- 790.4.P5 Pile theory
- 790.4.S9 Symmetrical fission
- 790.6 Instruments and apparatus
- 790.8.A-Z Fission of specific elements, A-Z (Table Q1)
- Nuclear fusion
- Cf. UG1282.A8 Hydrogen bomb
- 790.95 Periodicals, societies, congresses, serial publications
- 790.97 Collected works (nonserial)
- 791 General works, treatises, and textbooks
- 791.4 Popular works
- 791.5 Juvenile works
- 791.6 Addresses, essays, lectures
- Controlled fusion
- 791.7 Periodicals, societies, congresses, serial publications
- 791.72 Collected works (nonserial)
- 791.725 Directories
- 791.73 General works, treatises, and textbooks
- 791.735 Popular works
- 791.74 Addresses, essays, lectures
- Study and teaching. Research
- 791.745 General works
- By region or country
- United States
- 791.75 General works
- 791.755.A-Z By region or state, A-Z
- 791.76.A-Z Other regions or countries, A-Z
- 791.77.A-Z Special devices, A-Z
- 791.77.S7 Stellarators
- 791.775.A-Z Special topics, A-Z
- 791.775.C64 Cold fusion
- Inertial confinement fusion see QC791.775.P44
- 791.775.L37 Laser fusion
- 791.775.P44 Pellet fusion. Inertial confinement fusion
- 791.8.A-Z Other special topics, A-Z
- Neutron transport theory see QC793.3.T7
- Thermonuclear reactions see QC791.7+
- Atomic energy
- Cf. BR115.A83 Moral and religious aspects
- Cf. HD9698+ Economic aspects
- Cf. QC913.2.A8 Meteorological aspects
- Cf. TK9001+ Atomic power
- 791.9 Periodicals, societies, congresses, serial publications
- 791.915 Collected works (nonserial)
- 791.92 Dictionaries and encyclopedias
- Communication of information
- 791.93 General works
- 791.94 Information services

## Nuclear and particle physics. Atomic energy. Radioactivity

## Atomic energy -- Continued

## Nuclear regulatory commissions

791.948

General works

791.95.A-Z

By region or country, A-Z

791.96

History

791.98

Directories

792

General works, treatises, and textbooks

792.4

Popular works

792.5

Juvenile works

792.6

Addresses, essays, lectures

792.7

Special aspects of the subject as a whole

Including peaceful uses of atomic energy

Study and teaching. Research

792.72.A-Z8

General works

792.72.Z9

Catalogs of audiovisual materials

By region or country

United States

792.74

General works

792.76.A-Z

By region or state, A-Z

792.78.A-Z

Other regions or countries, A-Z

Laboratories

792.79

General works

792.8.-Z

By region or country, A-Z

Subarrange each country by Table Q6

## Elementary particle physics

Cf. QC170+ Structure of matter and other theories

793

Periodicals, societies, congresses, serial publications

793.12

Collected works (nonserial)

793.13

Philosophy

793.15

Classification

793.16

History

793.2

General works, treatises, and advanced textbooks

793.24

Elementary textbooks

793.26

Popular works

793.27

Juvenile works

793.28

Addresses, essays, lectures

793.29

Special aspects of the subject as a whole

793.3.A-Z

Special topics, A-Z

793.3.A4

Algebra of currents

Cf. QC174.52.A43 Quantum field theory

Algebraic geometry see QC793.3.G46

793.3.A5

Angular momentum

793.3.B4

Particle beams

793.3.B5

Binding energy. Nuclear forces

793.3.B6

Bootstrap theory

793.3.C53

Charm

793.3.C54

Chirality

793.3.C56

Collective excitations

793.3.C57

Color confinement

793.3.C58

Conservation laws

793.3.C6

Cosmic ray and ionospheric influences

793.3.C67

Coupling constants

793.3.D4

Decay. Lifetime

793.3.D43

Degree of freedom

793.3.D5

Diffraction

## Nuclear and particle physics. Atomic energy. Radioactivity

## Elementary particle physics

## Special topics, A-Z -- Continued

- 793.3.D55 Diffusion
- 793.3.D9 Dynamics
- 793.3.E4 Electrodynamics
- 793.3.E45 Electromagnetism
- Electronic data processing see QC793.47.E4
- 793.3.E5 Energy ranges
- Energy spectra see QC793.5.A22+
- Exciton theory see QC794.6.E9
- 793.3.E93 Exotic nuclei
- 793.3.F5 Field theories
- Flavor see QC793.3.Q37
- 793.3.G38 Gauge fields
  - Including gauge theories
- 793.3.G46 Geometry, Algebraic
- 793.3.H44 Helicity
- 793.3.H5 High energy physics
- Invariance see QC793.3.S9
- Ionospheric influences see QC793.3.C6
- Isospin see QC793.3.S6
- 793.3.K5 Kinematics
- 793.3.L53 Lie algebras
- Lifetime see QC793.3.D4
- Magnetic dipole moment see QC793.3.S6
- 793.3.M3 Magnetic fields
- 793.3.M36 Matrix theories
- Molecules, Nuclear see QC793.3.N82
- Momentum see QC793.3.S6
- Nuclear cluster theory see QC793.3.S8
- Nuclear emulsions see QC793.47.P4
- Nuclear forces see QC793.3.B5
- 793.3.N8 Nuclear matter
- Nuclear models see QC793.3.S8
- 793.3.N82 Nuclear molecules
- Nuclear orientation see QC793.3.S6
- 793.3.N83 Nuclear shapes
- Particle accelerators see QC787.P3
- Particle beams see QC793.3.B4
- Phase shift see QC794.6.S3
- Photography. Nuclear emulsions see QC793.47.P4
- Polarization see QC794.6.S3
- Problem of many bodies see QC174.17.P7
- 793.3.Q35 Quantum chromodynamics
- 793.3.Q37 Quantum flavor dynamics
- Quantum theory see QC174.45+
- 793.3.R4 Regge trajectories
  - Cf. QC174.17.G7 Group theory applied to quantum theory
- Relaxation see QC762.6.R44
- Renormalization theory see QC174.17.R46
- Resonance. Resonance integral see QC794.6.R4
- Scattering see QC794.6.S3
- Shapes, Nuclear see QC793.3.N83
- 793.3.S57 Space and time
  - Cf. QC173.59.S65 Relativity physics

- Nuclear and particle physics. Atomic energy. Radioactivity  
 Elementary particle physics  
 Special topics, A-Z -- Continued  
 Spectroscopy see QC454.N8  
 793.3.S6 Spin. Moments. Magnetic dipole moment. Nuclear orientation  
 793.3.S77 Statistical mechanics  
 793.3.S8 Structure  
     Including nuclear models and nuclear cluster theory  
 793.3.S9 Symmetry. Invariance  
     Cf. QC174.17.S9 Quantum theory  
 793.3.T67 Tracks  
 Transitions see QC454.N8  
 793.3.T7 Transport theory  
 793.3.V5 Violations  
 793.3.W3 Wave mechanics  
 793.3.W4 Weight diagrams  
 Study and teaching. Research  
 793.4 General works  
 793.412 Experiments  
 793.42 Problems, exercises, examinations  
 Technique  
 793.46 General works  
 793.47.A-Z Special, A-Z  
 793.47.E4 Electronic data processing  
 793.47.P4 Photography. Nuclear emulsions  
 793.47.S83 Statistical methods  
 Instruments and apparatus see QC785.5+  
 793.49 Miscellany and curiosa  
 793.5.A-Z Special nuclear and subnuclear particles, antiparticles, and families of particles, A-Z  
 793.5.A22-.A229 Alpha particles. Alpha rays (Table Q2)  
 793.5.A25-.A259 Anyons (Table Q2)  
 793.5.B32-.B329 Baryons (Table Q2)  
 793.5.B42-.B429 Beta particles. Beta rays (Table Q2)  
 793.5.B62-.B629 Bosons (Table Q2)  
     Including intermediate, W, and Z bosons  
 793.5.C64-.C649 Cold neutrons (Table Q2)  
     Including ultracold neutrons  
 793.5.D42-.D429 Delayed neutrons (Table Q2)  
 793.5.D442-.D4429 Delayed protons (Table Q2)  
 793.5.D482-.D4829 Deuterons (Table Q2)  
 793.5.E62-.E629 Electrons (Table Q2)  
     Including synchrotron radiation  
     Cf. QC449.3 Electron holography  
 793.5.F32-.F329 Fast neutrons (Table Q2)  
 793.5.F42-.F429 Fermions (Table Q2)  
 793.5.G32-.G329 Gamma rays (Table Q2)  
 793.5.G552-.G5529 Gluons (Table Q2)  
 793.5.H32-.H329 Hadrons (Table Q2)  
     Cf. QC794.8.S8 Strong interactions  
 793.5.H34-.H349 Heavy leptons (Table Q2)  
 793.5.H42-.H429 Hyperons (Table Q2)  
     Including sigma particles and Y-particles  
 Intermediate bosons see QC793.5.B62+  
 Kaons see QC793.5.M42+

## Nuclear and particle physics. Atomic energy. Radioactivity

## Elementary particle physics

Special nuclear and subnuclear particles, antiparticles, and families of particles, A-Z --

Continued

- 793.5.L42-.L429      Leptons (Table Q2)  
                             Cf. QC793.5.H34+ Heavy leptons  
                             Cf. QC794.8.W4 Weak interactions
- 793.5.M32-.M329      Magnons (Table Q2)
- 793.5.M42-.M429      Mesons (Table Q2)  
                             Including kaons, muons, and pions
- 793.5.N42-.N429      Muons see QC793.5.M42+
- 793.5.N462-.N4629    Neutrinos (Table Q2)
- 793.5.N462-.N4629    Neutrons (Table Q2)
- 793.5.N82-.N829      Nucleons (Table Q2)
- 793.5.N862-.N8629    Nuclides (Table Q2)
- 793.5.P42-.P429      Phonons see QC176.8.P5
- 793.5.P42-.P429      Photons (Table Q2)  
                             Cf. QC176.8.P6 Polaritons  
                             Cf. QC794.8.E4 Electromagnetic interactions
- 793.5.P58-.P589      Pions see QC793.5.M42+
- 793.5.P62-.P629      Polarons see QC176.8.P62
- 793.5.P642-.P6429    Pomeron (Table Q2)
- 793.5.P72-.P729      Positrons (Table Q2)
- 793.5.P642-.P6429    Prompt neutrons (Table Q2)
- 793.5.P72-.P729      Protons (Table Q2)
- 793.5.Q252-.Q2529    Quarks (Table Q2)
- 793.5.Q32-.Q329      Quasi-particles (Table Q2)
- 793.5.S62-.S629      Sigma particles see QC793.5.H42+
- 793.5.S72-.S729      Slow neutrons (Table Q2)
- 793.5.S72-.S729      Strange particles (Table Q2)
- 793.5.T32-.T329      Tachyons (Table Q2)
- 793.5.T37-.T379      Thermal electrons (Table Q2)
- 793.5.T42-.T429      Thermal neutrons (Table Q2)
- 793.5.T42-.T429      W bosons see QC793.5.B62+
- 793.5.T42-.T429      Y-particles see QC793.5.H42+
- 793.5.T42-.T429      Z bosons see QC793.5.B62+
- 793.9                    Nuclear interactions  
                             Cf. QC454.N8 Nuclear spectroscopy
- 793.9                    Periodicals, societies, congresses, serial publications
- 793.95                  Collected works (nonserial)
- 794                      General works, treatises, and textbooks
- 794.5                    Addresses, essays, lectures
- 794.6.A-Z              Special topics, A-Z
- 794.6.A5                Angular distribution. Angular correlations
- 794.6.C58              Coherence
- 794.6.C6                Collisions
- 794.6.C7                Cross section of interactions
- 794.6.E9                Decay see QC794.6.R3
- 794.6.E9                Excitation  
                             Cf. QC795.8.E5 Energy levels
- 794.6.F4                Feynman diagrams
- 794.6.F65               Form factor
- 794.6.G7                Grand unified theories
- 794.6.I5                Internal conversion
- 794.6.I8                Isotone shift. Isotope shift
- 794.6.K5                Kinematics



## Nuclear and particle physics. Atomic energy. Radioactivity

## Nuclear interactions

## Special topics, A-Z -- Continued

- 794.6.M6 Moments
- 794.6.M85 Multiplicity
- 794.6.R25 Polarization see QC794.6.S3
- 794.6.R3 Radiative capture
- 794.6.R4 Radioactivity. Decay
- 794.6.R4 Resonance. Resonance integral
- 794.6.S3 Scattering
  - Including elastic scattering, inelastic scattering, polarization, etc.
- 794.6.S75 Standard model
- 794.6.S8 Stopping power
- 794.6.S85 String models
  - Including superstring theories
- 794.8.A-Z Transitions see QC454.N8
- 794.8.D57 Special types of interactions, A-Z
- 794.8.E35 Direct
- 794.8.E4 Effective
  - Electromagnetic
    - Cf. QC793.5.P42+ Photons
  - Electroweak
  - Exclusive
  - Gravitational
  - Heavy ion induced
    - Including heavy ion collisions
- 794.8.H5 High energy
  - Cf. QC793.3.H5 High energy physics
- 794.8.I52 Hyperfine see QC762.6.H94
- 794.8.L69 Inclusive
- 794.8.P4 Low-energy nuclear reactions
- 794.8.P4 Photonuclear
  - Cf. QC715+ Photoelectricity
- 794.8.S7 Spallation
- 794.8.S8 Strong
  - Cf. QC793.5.H32+ Hadrons
- 794.8.W4 Weak
  - Cf. QC793.5.L42+ Leptons

## Radioactivity and radioactive substances

- Including ionizing radiation
- Cf. QC474+ Radiation physics
- Cf. QC913+ Meteorological aspects
- Cf. QD601+ Radiochemistry
- Cf. QE501.4.N9 Nuclear geophysics
- Cf. QH543.5+ Radiobiology

- 794.95 Periodicals, societies, congresses, serial publications
- 794.96 Collected works (nonserial)
- 794.97 Dictionaries and encyclopedias
- 794.98 History
- 795 General works, treatises, and textbooks
- 795.26 Popular works
- 795.27 Juvenile works
- 795.28 Addresses, essays, lectures
- 795.3 Special aspects of the subject as a whole
- 795.32.A-Z Special topics, A-Z
- 795.32.R3 Radiation dosimetry in physics

- Nuclear and particle physics. Atomic energy. Radioactivity  
 Radioactivity and radioactive substances  
 Special topics, A-Z -- Continued
- 795.32.S3 Safety measures for physicists  
     Cf. RA1231.R2 Toxicology  
     Cf. TK9152+ Nuclear engineering
- Study and teaching. Research
- 795.34 General works  
 795.36 Experiments  
 795.38 Laboratory manuals  
 Laboratories see QD604.8+  
 Technique  
     Cf. TK9151.4+ Radiation environment procedures
- 795.4 General works  
 795.42 Measurement of radioactivity and ionizing radiation  
 795.5 Instruments and apparatus (General)  
     For individual instruments see QC785.5+
- 795.52 Handbooks, tables, formulas, etc.  
 795.55.A-Z Special types of radioactivity, A-Z  
 795.55.I5 Induced radioactivity
- Radioactive substances and radioisotopes  
     Cf. TK9400+ Nuclear engineering
- 795.6 Periodicals, societies, congresses, serial publications  
 795.64 Dictionaries and encyclopedias  
 795.7 General works, treatises, and textbooks  
 795.74 Juvenile works  
 Study and teaching. Research
- 795.76 General works  
 795.77 Experiments  
 795.78 Laboratory manuals
- 795.8.A-Z Special topics, A-Z  
     Prefer classification by specific substance in QC796
- 795.8.D4 Decay  
 795.8.E5 Energy levels  
 795.8.F5 Fission products  
 795.8.H3 Half-life  
 795.8.I5 Internal conversion  
 Isobars, Nuclear see QC795.8.N8
- 795.8.N8 Nuclear isomers. Nuclear isobars  
 795.8.R3 Radionuclides  
 795.8.S6 Spectra  
     For spectra of specific substances see QC462+  
 Standards see TK9400+
- 795.8.T45 Thermal properties  
 Transportation see HE199.5.R3+
- 796.A-Z Special radioactive substances and radioisotopes, A-Z (Table Q1)  
 796.2 Superheavy elements  
     Cf. QD172.S93 Inorganic chemistry
- Applications  
     For applications in special fields, see the field, e.g. QH324.3, Tracers in biological research;  
     RM858, Radioisotopes in therapeutics; TK9400-9401, Radioactive substances in industry
- 798.A1 General works, treatises, and textbooks  
 798.A2-Z Individual, A-Z  
 798.D3 Dating  
 798.T7 Tracers

- Geophysics. Cosmic physics  
 Cf. GB5000+ Natural disasters
- 801 Periodicals, societies, congresses, serial publications  
 801.3 International Geophysical Committee. International Geophysical Year  
 801.4 International Years of the Quiet Sun  
 801.5 Collected works (nonserial)  
 801.9 Dictionaries and encyclopedias
- Observations  
 802.A1 General works, treatises, and textbooks  
 802.A2-Z By name of issuing observatory, A-Z  
     Prefer QC803
- 803.A-Z By region or country, A-Z  
 804 History  
 Biography  
 805.A2 Collective  
 805.A3-Z Individual, A-Z
- 806 General works, treatises, and textbooks  
 806.4 Juvenile works  
 806.6 Addresses, essays, lectures  
 807 Special aspects of the subject as a whole  
 Study and teaching. Research
- 807.5 General works  
 807.52 Problems, exercises, examinations  
 807.6.A-Z By region or country, A-Z
- Observatories  
 808.A2 General works  
 808.A5-Z By region or country, A-Z  
     *Under each country:*  
     .x General works  
     .x2A-.x2Z Individual observatories. By name, A-Z
- 808.5 Technique. Instructions for observers  
 808.6 Data processing  
 808.7 Instruments and apparatus  
 808.8 Handbooks, tables, formulas, etc.
- 809.A-Z Special topics, A-Z  
 809.A25 Acoustic phenomena  
 809.C6 Cosmic noise  
 Earth radiation see QC809.T4
- 809.E15 Earth resistance  
 809.E2 Earth tides  
 809.E5 Elastic waves  
 809.E55 Electrodynamics  
     Cf. QB460+ Astrophysics
- 809.E6 Energy budget. Heat budget  
 809.F5 Fluid dynamics  
 Heat budget see QC809.E6
- 809.M25 Magnetic fields. Geomagnetic micropulsations  
 809.M3 Magnetohydrodynamics  
 809.M35 Magnetosphere. Magnetopause  
 809.M37 Mathematics  
 Nuclear astrophysics see QB463+  
 Nuclear geophysics see QE501.4.N9
- 809.P3 Paleogeophysics  
 809.P5 Plasmasphere. Space plasmas  
 809.R3 Radiation  
 Solar wind see QB529+

- Geophysics. Cosmic physics  
 Special topics, A-Z -- Continued  
 Space plasmas see QC809.P5  
 809.S67 Spectral theory  
 809.T38 Terrestrial heat flow  
 809.T4 Terrestrial radiation  
 809.V3 Van Allen radiation belts
- Geomagnetism  
 Cf. QC750+ Magnetism  
 Cf. QE501.4.P35 Paleomagnetism
- 811 Periodicals, societies, congresses, serial publications  
 811.15 Collected works (nonserial)  
 813 History  
 814 Early works through 1800  
 General works, treatises, and textbooks  
 815 1801-1969  
 815.2 1970-  
 815.5 Juvenile works  
 815.7 Addresses, essays, lectures  
 816 Special aspects of the subject as a whole  
 Observatories  
 818.A2 General works  
 818.A5-Z By region or country, A-Z  
*Under each country:*  
 .x *General works*  
 .x2A-.x2Z *Individual observatories. By name, A-Z*
- 819 Instruments and apparatus  
 Including magnetometer
- 820 Technique. Instruction for observers  
 820.6 Data processing  
 821 Handbooks, tables, formulas, etc.  
 822 Maps and mapping  
 Including construction, use, and interpretation of maps
- Magnetic surveys  
 Geographic areas below are not subarranged by country
- 825 General works  
 825.1 North America  
 825.2 Mexico, Central America, and West Indies  
 825.3 South America  
 825.4 Europe  
 825.5 Asia  
 825.6 Africa  
 825.7 Australia  
 825.75 New Zealand  
 825.8 Arctic regions  
 825.9 Antarctica  
 826.A-Z Oceanic areas, A-Z
- Geomagnetic field (Analysis and theory)  
 827 General works  
 828 Secular variation
- Magnetic observations  
 830.A-Z General works. By name of issuing observatory, A-Z  
 831 Diurnal variations  
 833 Other periodic variations  
 835 Magnetic disturbances  
 Including magnetic storms

- Geomagnetism
  - Magnetic observations -- Continued
    - Geomagnetism and related aspects
      - 836 Sunspot periods
      - 837 Eclipses
      - 839 Meteorological phenomena
      - 841 Geological structure
      - 843 Earthquakes
      - 845 Earth currents
      - 849 Deviation of the magnetic compass and other magnetic instruments. Magnetism of ships and aircraft
        - Cf. TL589.2.C6 Aeronautical instruments
        - Cf. VK577 Nautical instruments
- Meteorology. Climatology
  - Including the earth's atmosphere and atmospheric physics
  - For works on the composite generalization of weather conditions of specific geographic areas during a specific period of time with reference to average conditions and their variability see QC980+
  - Cf. GB2801+ Hydrometeorology
  - Cf. N72.M48 Art and meteorology
  - Cf. QB603.A85 Planetary meteorology
  - Cf. S600+ Agricultural meteorology
  - Cf. SD390.5+ Forest meteorology
  - Cf. SH343.3 Fishery meteorology
  - Cf. TA197+ Engineering meteorology
  - Cf. TL556+ Aeronautical meteorology
  - Cf. UG467 Military meteorology
  - 851 Periodicals, societies, congresses, serial publications
  - 852 Collected works (nonserial)
  - 854 Dictionaries and encyclopedias
  - 854.15 Communication of meteorological information
    - For computer network resources see QC866.5.C67
    - For exchange of meteorological information see QC866.5.E93
  - 854.2 Nomenclature, terminology, notation, abbreviations
  - History
    - 855 General works
    - 857.A-Z By region or country, A-Z
  - Biography
    - 858.A2 Collective
    - 858.A3-Z Individual, A-Z
  - 859 Early works through 1800
    - General works, treatises, and advanced textbooks
      - 861 1801-1969
      - 861.2 1970-2000
      - 861.3 2001-
    - 863 Elementary textbooks
    - 863.4 Popular works
      - Including works for hobbyists
    - 863.5 Juvenile works
    - 864 Handbooks, tables, formulas, etc.
      - Cf. QC871.4 Observers' manuals
      - Cf. QC873 Computation tables
  - 865 Addresses, essays, lectures
  - 866 Special aspects of the subject as a whole
  - 866.5.A-Z Special topics, A-Z
  - 866.5.C65 Communication systems

- Meteorology. Climatology  
 Special topics, A-Z -- Continued
- 866.5.C67 Computer network resources  
 Including the Internet
- 866.5.E93 Exchange of meteorological information
- 866.5.G46 Geographic information systems
- 866.5.I5 International cooperation  
 Cf. QC875.2.A+ International projects, programs, etc.
- 866.5.P4 Photography (General)
- Study and teaching. Research
- 869 General works
- 869.15 Outlines, syllabi
- 869.2 Programmed instruction
- 869.3 Problems, exercises, examinations
- 869.4.A-Z By region or country, A-Z
- 869.5 Meteorology as a profession. Vocational guidance
- 870 Miscellany and curiosa
- Technique. Instructions for observers
- 871 Methods of observation
- 871.2 Observation forms, blanks, etc.
- 871.4 Observers' manuals
- 872 Telegraphic cipher codes for meteorological data
- 873 Computation tables (General)  
 Synoptic meteorology. Computation and analysis
- 874 General works
- 874.3 Data processing
- 874.5 Statistical methods
- 874.8 Laboratory manuals
- Meteorological stations and observatories. Weather services  
 Including marine meteorological services
- 875.A2 General works
- 875.A5-Z By region or country, A-Z  
*Under each country:*
- |           |  |
|-----------|--|
| .x        | General works                          |
| .x2A-.x2Z | Individual observatories. By name, A-Z |
- 875.2.A-Z Individual international projects, programs, etc. By name, A-Z
- Meteorological instruments  
 For instruments of special fields, see the field, e.g., for Rain gauges see QC926
- 875.5 Periodicals, societies, congresses, serial publications
- 875.7 History
- 876 General works, treatises, and textbooks
- 876.5 Juvenile works
- 876.6 Addresses, essays, lectures
- Museums. Exhibitions
- 876.7.A1 General works
- 876.7.A2-Z By region or country, A-Z  
 Subarrange each country by Table Q5
- 877 Weather signals, storm warnings, etc.
- 877.5 Weather broadcasting  
 Including radio and television weathercasting
- 878 Construction of weather maps, charts, etc.
- Aeronomy. Upper atmosphere
- 878.5 Periodicals, societies, congresses, serial publications
- 878.6 Collected works (nonserial)
- 879 General works, treatises, and textbooks
- 879.15 Juvenile works

- Meteorology. Climatology  
 Aeronomy. Upper atmosphere -- Continued
- 879.2 Addresses, essays, lectures  
 Study and teaching. Research
- 879.23 General works  
 879.232.A-Z By region or country, A-Z  
 879.25 Instruments and apparatus  
 Aeronautics in meteorology  
 Including sounding balloons, kites, etc.  
 Cf. TL556+ Meteorology in aeronautics
- 879.3 Periodicals, societies, congresses, serial publications  
 879.35 General works, treatises, and textbooks  
 879.36 Addresses, essays, lectures  
 Astronautics in meteorology  
 Including weather satellites, rockets, etc.
- 879.4 Periodicals, societies, congresses, serial publications  
 879.5 General works, treatises, and textbooks  
 879.53 Juvenile works  
 879.54 Addresses, essays, lectures  
 879.55.A-Z Special topics, A-Z  
 879.55.P4 Photography  
 Including automatic picture receiving and transmission, etc.
- 879.56 Stations, networks, and programs  
 General works  
 879.562.A2-Z By region or country, A-Z  
*Under each country:*  
 .x General works  
 .x2A-.x2Z Individual stations, networks, and programs. By name, A-Z
- 879.57 Handbooks, tables, formulas, etc.  
 Observations. Data summaries
- 879.59.A1 General works, treatises, and textbooks  
 879.59.A3-Z By region or country, A-Z
- Atmospheric chemistry
- 879.6 General works  
 Atmospheric ozone  
 Including ozone layer depletion
- 879.7 General works, treatises, and textbooks  
 879.712 Juvenile works  
 Observations. Data summaries
- 879.72 General  
 879.73.A-Z By region or country, A-Z
- 879.8 Atmospheric carbon dioxide  
 879.85 Atmospheric methane  
 879.9.A-Z Other chemical substances, A-Z  
 879.9.D55 Dimethyl sulfide  
 879.9.M47 Mercury  
 879.9.N57 Nitrogen compounds  
 879.9.O73 Organic compounds  
 879.9.P47 Peroxides  
 Radon see QC913.2.R3
- Dynamic meteorology  
 Including mechanics and thermodynamics of the atmosphere (combined)  
 Cf. QC930.5+ Wind
- 880 General works  
 880.2 Addresses, essays, lectures  
 880.4.A-Z Special topics, A-Z

## Meteorology. Climatology

## Dynamic meteorology

## Special topics, A-Z -- Continued

- 880.4.A3 Adiabatic processes
  - 880.4.A5 Air masses
    - Cf. QC981.8.A5 Climatology
  - 880.4.A8 Atmospheric circulation
  - 880.4.B35 Baroclinicity
  - 880.4.B55 Blocking
  - 880.4.B65 Boundary layer
  - 880.4.C64 Clear air turbulence see QC880.4.T8
  - 880.4.C65 Convection
  - 880.4.C65 Coriolis force
  - 880.4.C79 Cryosphere
  - 880.4.D44 Diffusion
  - 880.4.D5 Divergence. Convergence
  - 880.4.E7 Eddy flux see QC880.4.T8
  - 880.4.F7 Equations of motion
  - 880.4.H54 Fronts. Frontogenesis
  - 880.4.L68 High pressure systems
  - 880.4.L68 Low pressure systems
  - 880.4.M52 Microbursts
  - 880.4.P6 Power spectra
  - 880.4.R6 Rossby waves
  - 880.4.S56 Singularities
  - 880.4.S65 Squalls. Squall lines
  - 880.4.T5 Thermodynamics
  - 880.4.T7 Transport phenomena
  - 880.4.T8 Turbulence
    - Including clear air turbulence and eddy flux
  - 880.4.V6 Vorticity
  - 880.4.W3 Waves
- Atmospheric shells (General)
- Including composition of the atmosphere
  - 881 General works
  - 881.2.A-Z Specific shells, A-Z
  - 881.2.C4 Chemosphere
  - 881.2.D2 D region
  - 881.2.E2 E region
  - 881.2.E9 Exosphere
  - 881.2.F2 F region
  - 881.2.H43 Heliosphere
  - 881.2.H48 Heterosphere
  - 881.2.H6 Homosphere
  - 881.2.I6 Ionosphere
  - 881.2.M3 Magnetosphere. Magnetopause see QC809.M35
  - 881.2.M3 Mesosphere. Mesopause
  - 881.2.M53 Middle atmosphere
  - 881.2.N4 Neutrosphere
  - 881.2.O9 Ozonosphere. Ozone layer
  - 881.2.S8 Stratosphere. Stratopause
  - 881.2.T4 Thermosphere
  - 881.2.T7 Triptosphere. Triptopause
  - 881.2.T75 Troposphere. Tropopause



- Meteorology. Climatology -- Continued
- Atmospheric pollutants  
 Cf. QC929.D9 Dust (Aqueous vapor)  
 Cf. TD881+ Air pollution
- 882 General works  
 Aerosols
- 882.4 Periodicals, societies, congresses, serial collections  
 882.42 General works, treatises, and textbooks  
 882.46 Technique  
 882.5 Dust  
 Cf. TD884.5 Air pollution
- 882.6 Smoke plumes  
 Cf. TD884 Air pollution
- Cosmic relations. Influence on sun and moon, etc.
- 883 General works  
 883.2.A-Z Special topics, A-Z  
 883.2.A8 Atmospheric tides  
 883.2.C5 Climatic periodicity  
 883.2.S6 Solar activity. Solar climate
- Mesometeorology
- 883.4 Periodicals, societies, congresses, serial publications  
 883.42 Collected works (nonserial)  
 883.5 General works, treatises, and textbooks  
 883.52 Addresses, essays, lectures  
 Observations. Data summaries  
 883.54 General works, treatises, and textbooks  
 883.56.A-Z By region or country, A-Z
- Micrometeorology
- 883.7 Periodicals, societies, congresses, serial publications  
 883.72 Collected works (nonserial)  
 883.8 General works, treatises, and textbooks  
 883.82 Addresses, essays, lectures  
 Observations. Data summaries  
 883.84 General works, treatises, and textbooks  
 883.86.A-Z By region or country, A-Z
- Paleoclimatology  
 Cf. QE697+ Geology
- 884 General works  
 884.2.A-Z Special topics, A-Z  
 884.2.C5 Climatic variations  
 884.2.D4 Dendroclimatology  
 Cf. QK477.2.A6 Annual rings
- 884.5.A-Z By region or country, A-Z
- Atmospheric pressure  
 Cf. QC934 Relation to wind
- 885 General works, treatises, and textbooks  
 885.2 Charts, diagrams, maps, etc.  
 Observations. Data summaries  
 885.4 General works  
 885.6.A-Z By region or country, A-Z
- Mercury barometers and barographs
- 886 General works  
 887 Tables for reductions  
 889 Distribution, isobars, etc.  
 891 Variations and oscillations  
 895 Barometric hypsometry

- Meteorology. Climatology
  - Atmospheric pressure -- Continued
    - 896 Aneroid barometers and barographs
  - Temperature and radiation
    - Atmospheric temperature
      - Cf. QC934.2 Wind chill
      - Cf. TL557.A8 Aeronautical meteorology
    - Observations
      - Including distribution, isotherms
  - 901.A1 General works, treatises, and textbooks
  - 901.A3-Z By region or country, A-Z
  - 902 Instruments and apparatus
  - Variations. Climatic changes
    - Including global temperature changes, etc.
  - 902.8 Periodicals, societies, congresses, serial publications
  - Communication of information
    - 902.9 General works
    - 902.92 Information resources
    - 902.93 Computer network resources
      - Including the Internet
      - Cf. QC981.8.G56 Global warming
  - 903 General works, treatises, and textbooks
  - 903.15 Juvenile works
  - 903.2.A-Z By region or country, A-Z
  - 905 Winter temperatures
  - 906 Summer temperatures
  - (907) Temperature of the earth
    - see QE509
  - Temperature of the sea see GC160+
  - (909) Temperature of rivers, lakes, and springs
    - see GB651+
  - Solar radiation. Sunshine
    - 910.2 Periodicals, societies, congresses, serial publications
    - 910.5 Collected works (nonserial)
    - 911 General works, treatises, and textbooks
    - 911.2 Juvenile works
    - 911.3 Addresses, essays, lectures
    - 911.6 Handbooks, tables, formulas, etc.
    - Observations. Data summaries
      - 911.8 General works, treatises, and textbooks
      - 911.82.A-Z By region or country, A-Z
    - 912 Instruments and apparatus
      - Including actinometers, pyrheliometers, sunshine recorders, etc.
    - 912.2.A-Z Special topics, A-Z
      - 912.2.S64 Solar constant
    - 912.3 Atmospheric radiation
      - Including greenhouse effect
    - 912.5 Albedo
    - 912.55 Global radiation
  - Atmospheric radioactivity
    - 913 General works
    - 913.2.A-Z Special topics, A-Z
      - 913.2.A8 Atomic energy
        - Including radioactive fallout
        - Cf. TD887.R3 Radioactive pollution
      - 913.2.R3 Radon

- Meteorology. Climatology -- Continued
- Aqueous vapor
- Humidity. Hygrometry
- 915 General works
- Evaporation and evapotranspiration
- 915.5 General works
- Observations. Data summaries
- 915.6 General works
- 915.7.A-Z By region or country, A-Z
- 916 Instruments and apparatus
- Including hydrometers, psychrometers, etc.
- 917 Handbooks, tables, formulas, etc.
- 920 Forms of water (General)
- Clouds
- Cf. TL557.C6 Aeronautical meteorology
- 920.7 Periodicals, societies, congresses, serial publications
- 920.8 Collected works (nonserial)
- 921 General works, treatises, and textbooks
- 921.3 Pictorial works and atlases
- 921.35 Juvenile works
- 921.37 Addresses, essays, lectures
- Observations. Data summaries
- 921.375 General works, treatises, and textbooks
- 921.377.A-Z By region or country, A-Z
- Cloud forms and classification. Formation
- 921.4 General works
- 921.43.A-Z Special forms, A-Z
- 921.43.C57 Cirrus
- 921.43.C78 Cumulonimbus
- 921.43.C8 Cumulus
- 921.43.N3 Nacreous (Mother-of-pearl)
- Noctilucent see QC976.N6
- 921.43.S8 Stratus
- Cloud physics
- 921.48 Periodicals, societies, congresses, serial publications
- 921.5 General works, treatises, and textbooks
- 921.55 Addresses, essays, lectures
- 921.6.A-Z Special topics, A-Z
- 921.6.C6 Condensation nuclei
- Including cloud droplets, ice crystals, etc.
- 921.6.C65 Convection
- 921.6.D95 Dynamics
- 921.6.E4 Electrification
- 921.6.T4 Thermodynamics of clouds
- Observations of altitude, motion, etc.
- 922 General works, treatises, and textbooks
- 923 Instruments and apparatus
- Including ceilometer
- 924.A-Z By region or country, A-Z
- Rain and rainfall
- Cf. BV283.F3 Prayers for rain
- Cf. QE581 Erosion
- Cf. S622+ Soil conservation
- Cf. SD390.7.R34 Forest meteorology
- Cf. TD418 Rainwater (Water supply)
- 924.5 Periodicals, societies, congresses, serial publications

## Meteorology. Climatology

## Aqueous vapor

## Rain and rainfall -- Continued

- 924.6 Collected works (nonserial)
- 924.7 Juvenile works
- 925 General works, treatises, and textbooks
- Observations. By region or country
  - North America, United States and Canada
    - North America (General)
      - Canada
        - 925.1.A1 General works
          - 925.1.C2 By region, province, etc., A-Z
          - 925.1.C3A-.C3Z United States
            - 925.1.U2-.U799 General works
            - 925.1.U8A-.U8Z By region or state, A-Z
    - Mexico, Central America, and West Indies
      - 925.2.A1 General works
      - 925.2.A3-Z By country, island, or region, A-Z
        - Subarrange each country or island by Table Q4
    - South America
      - 925.3.A1 General works
      - 925.3.A3-Z By country, island, or region, A-Z
        - Subarrange each country or island by Table Q4
    - Europe
      - 925.4.A1 General works
      - 925.4.A3-Z By country, island, or region, A-Z
        - Subarrange each country or island by Table Q4
    - Asia
      - 925.5.A1 General works
      - 925.5.A3-Z By country, island, or region, A-Z
        - Subarrange each country or island by Table Q4
    - Africa
      - 925.6.A1 General works
      - 925.6.A3-Z By country, island, or region, A-Z
        - Subarrange each country or island by Table Q4
    - Atlantic Ocean islands
      - 925.65.A1 General works
      - 925.65.A3-Z By country, island, or region, A-Z
        - Subarrange each country or island by Table Q4
    - Australia
      - 925.7 General works
      - 925.71.A-Z Local, A-Z
    - New Zealand
      - 925.72 General works
      - 925.73.A-Z Local, A-Z
    - Pacific Ocean islands
      - 925.8.A1 General works
      - 925.8.A3-Z By country, island, or region, A-Z
        - Subarrange each country or island by Table Q4
  - Tropics
    - 925.82
  - Arctic regions
    - 925.9
  - Antarctica
    - 925.95
- Instruments and apparatus
  - 926 Including rain gauges
- 926.2 Data processing

- Meteorology. Climatology
- Aqueous vapor
- Rain and rainfall -- Continued
- 926.24 Raindrops
- Including raindrop size
- Snow. Ice. Blizzards
- Cf. GB641+ Frozen ground
- Cf. GB2401+ Ice on the ground
- Cf. GB2601+ Snow on the ground
- 926.3 Periodicals, societies, congresses, serial publications
- 926.32 General works, treatises, and advanced textbooks
- 926.36 Pictorial works
- 926.37 Juvenile works
- By region or country
- United States
- General works
- 926.43
- 926.44.A-Z By region or state, A-Z
- Subarrange each state by Table Q4
- 926.45.A-Z Other regions or countries, A-Z
- Subarrange each country by Table Q4
- Acid precipitation. Acid rain
- Cf. TD195.4+ Environmental pollutants
- 926.5 Periodicals, societies, congresses, serial publications
- 926.52 General works, treatises, and advanced textbooks
- By region or country
- United States
- General works
- 926.55
- 926.56.A-Z By region or state, A-Z
- Subarrange each state by Table Q4
- 926.57.A-Z Other regions or countries, A-Z
- Subarrange each country by Table Q4
- Weather and cloud modification
- Including weather control
- Cf. QC921.48+ Cloud physics
- 926.6 Periodicals, societies, congresses, serial publications
- 928 General works, treatises, and textbooks
- 928.4 Juvenile works
- 928.6 Rainmaking. Cloud seeding
- By region or country
- United States
- General works
- 928.7
- 928.72.A-Z By region or state, A-Z
- 928.74.A-Z Other regions or countries, A-Z
- 929.A-Z Other topics, A-Z
- Including other forms of precipitation
- 929.A8 Avalanches
- Blizzards see QC926.3+
- 929.D5 Dew formation
- (929.D8) Droughts
- see QC929.2+
- 929.D9 Dust influences
- 929.F7 Fog
- Cf. TL557.F6 Aeronautical meteorology
- 929.F8 Forest influences
- Frost see QC929.H6
- 929.G4 Glaze

## Meteorology. Climatology

## Aqueous vapor

## Other topics, A-Z -- Continued

- 929.H15 Hail
- 929.H6 Hoarfrost
- Ice see QC926.3+
- 929.R17 Rain shadows
- 929.R2 Rain without clouds
- Rainmaking see QC928.6
- 929.S43 Sea salt aerosols
- 929.S5 Showers of miscellaneous matter
- 929.S6 Smoke influences
- (929.S7) Snow. Ice. Blizzards
  - see QC926.3+
- Droughts
  - 929.2 Periodicals, societies, congresses, serial publications
  - 929.24 General works, treatises, and advanced textbooks
  - 929.25 Juvenile works
    - By region or country
      - United States
        - 929.26 General works
        - 929.27.A-Z By region or state, A-Z
          - Subarrange each state by Table Q4
      - 929.28.A-Z Other regions or countries, A-Z
        - Subarrange each country by Table Q4

## Wind

- Cf. QC880+ Dynamic meteorology
- Cf. TA654.5 Wind loads on structures
- Cf. TL557.A5 Aeronautical meteorology
- Cf. VK543+ Sailing
- 930.5 Periodicals, societies, congresses, serial publications
- 930.6 Collected works (nonserial)
- 930.7 Dictionaries and encyclopedias
- 931 General works, treatises, and textbooks
- 931.4 Juvenile works
- 931.6 Addresses, essays, lectures
- 931.8 Charts, diagrams, maps, etc.
- 932 Instruments and apparatus
  - Including anemometers
- 932.5 Handbooks, tables, formulas, etc.
- 933 Direction and velocity
- 934 Wind relation to atmospheric pressure
- 934.2 Wind in relation to atmospheric temperature. Wind chill
- 935 Upper currents. Jet stream
- 939.A-Z Constant, local, and periodic winds, A-Z
  - 939.B67 Bora
  - 939.C76 Crosswinds
  - 939.F6 Föhn, Chinook, etc.
  - 939.G73 Gregale
  - 939.K37 Katabatic winds
  - 939.L37 Land and sea breezes
  - 939.M7 Monsoons
  - 939.M8 Mountain and valley winds
    - Including Santa Ana
  - 939.N8 Northers
    - Sea and land breezes see QC939.L37

## Meteorology. Climatology

## Wind

Constant, local, and periodic winds, A-Z -- Continued

939.T7

Trade winds

## Observations

940.A1

General works, treatises, and textbooks

940.A2-Z

By region or country, A-Z

e.g.

940.A8

North Atlantic Ocean

## Storms. Cyclones

Cf. GC225+ Storm surges

Cf. HV635.5+ Disaster relief and socioeconomic consequences

Cf. QC926.3+ Snow. Ice. Blizzards

Cf. QC968+ Thunderstorms

Cf. TL557.S7 Aeronautical meteorology

940.6

Periodicals, societies, congresses, serial publications

941

General works, treatises, and textbooks

941.3

Juvenile works

941.8

Miscellany and curiosa

## Theoretical aspects

Including dynamic meteorological aspects

942

General works

943

Application to navigation

943.5.A-Z

By region or country, A-Z

## Hurricanes and other cyclonic storms

944

General works, treatises, and textbooks

944.2

Juvenile works

By geographical location

945

Atlantic Ocean and West Indies

Including tropical cyclones, northeaster storms

947

India, Pakistan, and the Indian Ocean

948

China Seas and Pacific Ocean. Far East

Including typhoons

951

Instruments and apparatus

Including barocyclonometer

## Tornadoes

955

General works

955.2

Juvenile works

955.5.A-Z

By region or country, A-Z

957

## Waterspouts

958

General works

959.A-Z

By region or country, A-Z

## Electrical phenomena in the atmosphere

Cf. QC801+ Geophysics. Cosmic physics

Cf. QC972.6+ Radio meteorology

960.5

Periodicals, societies, congresses, serial publications

961

General works, treatises, and textbooks

961.2

Addresses, essays, lectures

961.5

Technique. Instructions for observers

962

Instruments and apparatus

963

Observations of potential variation

## Lightning (General)

Cf. GR640 Folklore

Cf. TH9057+ Protection of buildings from lightning

966

General works

966.5

Juvenile works

- Meteorology. Climatology  
 Electrical phenomena in the atmosphere  
 Lightning (General) -- Continued  
 966.7.A-Z Special topics, A-Z  
     Arresters see TK3248  
 966.7.A84 Atmospheric ionization  
 966.7.B3 Ball lightning  
 966.7.D5 Discharge. Flash  
 Thunderstorms (General)  
 968 General works  
 968.2 Juvenile works  
 969 Miscellaneous electrical phenomena  
 Auroras  
     Cf. QB524+ Solar activity  
     Cf. QC835 Magnetic disturbance  
     Cf. QC976.A3 Airglow  
 970 Periodicals, societies, congresses, serial publications  
 971 General works, treatises, and textbooks  
 971.3 Pictorial works and atlases  
 971.4 Juvenile works  
 971.5 Addresses, essays, lectures  
 Observations  
 971.7.A1 General works, treatises, and textbooks  
 971.7.A2-Z By region or country, A-Z  
 972.A-Z Special topics, A-Z  
 972.L8 Luminescence  
 972.L85 Luminosity  
 972.P4 Photography  
 972.S6 Spectra  
 972.5.A-Z Special types of aurora, A-Z  
 972.5.A8 Australis  
 972.5.B6 Borealis  
     Northern lights see QC972.5.B6  
     Polaris see QC972.5.B6  
 972.5.R3 Radio auroras  
 Radio meteorology. Microwave meteorology  
 972.6 Periodicals, societies, congresses, serial publications  
 972.7 Collected works (nonserial)  
 973 General works, treatises, and textbooks  
 973.2 Addresses, essays, lectures  
 973.3 Instruments and apparatus  
 973.4.A-Z Special topics, A-Z  
 973.4.A85 Atmospheric  
 973.4.C4 Chorus. Dawn chorus  
 973.4.I6 Ionospheric radio waves  
     Including absorption, propagation, etc.  
 973.4.M33 Magnetospheric radio waves  
     Radio auroras see QC972.5.R3  
 973.4.R3 Radio noise  
 973.4.R35 Radio refractivity  
     Sferics see QC973.4.A85  
 973.4.T76 Tropospheric radio waves  
     Including absorption, propagation, etc.  
 973.4.V2 VLF emissions, propagation, etc.  
 973.4.W5 Whistlers  
 Radar meteorology



- Meteorology. Climatology
  - Radio meteorology. Microwave meteorology
    - Radar meteorology -- Continued
      - 973.45 Periodicals, societies, congresses, serial publications
      - 973.5 General works, treatises, and textbooks
      - 973.6 Addresses, essays, lectures
      - Radar stations
        - 973.62.A1 General works
        - 973.62.A2-Z By region or country, A-Z
        - 973.7 Instruments and apparatus
          - Including rawinsondes
        - 973.8.A-Z Special topics, A-Z
          - 973.8.E3 Echoes
          - 973.8.R4 Refraction
          - 973.8.W4 Weather radar networks
  - Meteorological optics
    - 974.5 Periodicals, societies, congresses, serial publications
    - 974.6 Collected works (nonserial)
    - General works, treatises, and textbooks
      - 975 1801-1969
      - 975.2 1970-
      - 975.3 Juvenile literature
      - 975.6 Addresses, essays, lectures
      - 975.8 Handbooks, tables, formulas, etc.
      - Observations
        - 975.9.A1 General works, treatises, and textbooks
        - 975.9.A2-Z By region or country, A-Z
      - Special topics, A-Z
        - 976.A-Z
          - 976.A3 Airglow
          - 976.C6 Coloration of the sky
          - (976.C7) Counterglow
            - see QB761
          - Gegenschein see QB761
        - 976.H15 Halos
        - 976.L36 Laser beam propagation
        - 976.M6 Mirages
        - 976.N5 Night sky
        - 976.N6 Noctilucent clouds
        - 976.P7 Polarization
        - 976.R15 Rain band spectrum
        - 976.R2 Rainbow
        - 976.R4 Atmospheric refraction
        - 976.S3 Scattering
        - 976.T6 Transmission of the atmosphere
        - 976.T7 Transparency of the atmosphere
        - 976.T8 Turbidity
        - 976.T9 Twilight phenomena
        - 976.U4 Ultraviolet rays
        - 976.V5 Visibility
          - Cf. TL557.V5 Aeronautical meteorology

Meteorology. Climatology -- Continued

Climatology and weather

Class here works on the composite generalization of weather conditions of specific geographic areas during a specific period of time with reference to average conditions and their variability

Cf. BF353 Psychological aspects

Cf. GF71 Human ecology

Cf. NA2541 Architecture and climate

Cf. QC884+ Paleoclimatology

Cf. QH543+ Bioclimatology

Cf. RA791+ Medical climatology

Cf. S600+ Agricultural climatology

Cf. TA198 Industry and weather

Cf. TH7015 Heating and ventilation

Cf. TL556+ Aviation climatology

980 Periodicals, societies, congresses, serial publications

980.15 Collected works (nonserial)

Dictionaries and encyclopedias see QC854

980.4 Classification of climate

Including indexes

Biography see QC858.A2+

981 General works, treatises, and textbooks

981.2 Popular works

981.3 Juvenile works

981.4 Addresses, essays, lectures

981.45 Special aspects of the subject as a whole

981.5 Study and teaching. Research

981.6 Instruments and apparatus

Including frigidimeters

981.7.A-Z Special types of climatology, A-Z

981.7.C7 Cryptoclimatology

981.7.D94 Dynamic climatology

981.7.M3 Macroclimatology

981.7.M4 Mesoclimatology

981.7.M5 Microclimatology

Paleoclimatology see QC884+

981.7.S8 Synoptic climatology

981.7.T64 Topoclimatology

981.7.U7 Urban climatology

981.8.A-Z Special topics, A-Z

981.8.A5 Air masses in weather situations

Including cold and heat waves, etc.

(981.8.C5) Climatic changes

see QC902.8+

981.8.C53 Climatic extremes

Cold waves see QC981.8.A5

981.8.C65 Continentality

Droughts see QC929.2+

Forest influences see SD425

Glaciers and climate see QC981.8.I23

981.8.G56 Global warming

Heat waves see QC981.8.A5

981.8.I23 Ice sheets and climate. Glaciers and climate

981.8.S9 Sultriness

981.8.V65 Volcano effect on weather

981.8.Z6 Zones of climate

## Meteorology. Climatology

## Climatology and weather -- Continued

## Geographic divisions

Including observations, weather reports, charts, etc., of special regions

## International observations

- 982  
982.5.A-Z  
982.5.C64  
982.5.D48  
982.5.G7  
982.5.G75  
982.5.N67  
982.5.S68  
982.8
- 983  
984.A-Z
- 985  
985.5.A-Z
- 986.A1  
986.A3-Z
- 987.A1  
987.A3-Z
- 988.A1  
988.A3-Z
- 989.A1  
989.A3-Z
- 990.A1  
990.A3-Z
- 991.A1  
991.A3-Z
- 992.A1  
992.A3-Z
- 992.5.A1  
992.5.A3-Z
- 993.A-Z  
993.5  
993.6  
993.7
- General works  
International areas not wholly within the divisions below. By name, A-Z  
Columbia River Watershed  
Developing countries  
Great Britain's colonies  
Great Lakes Region  
Northern Hemisphere  
Southern Hemisphere  
North America (General)  
United States  
General works  
By region or state, A-Z  
Subarrange each state by Table Q4  
Canada  
General works  
By region or province, A-Z  
Subarrange each province by Table Q4  
Mexico and Central America  
General works  
By country, island, or region, A-Z  
Subarrange each country or island by Table Q4  
West Indies  
General works  
By country, island, or region, A-Z  
Subarrange each country or island by Table Q4  
South America  
General works  
By country, island, or region, A-Z  
Subarrange each country or island by Table Q4  
Europe  
General works  
By country, island, or region, A-Z  
Subarrange each country or island by Table Q4  
Asia  
General works  
By country, island, or region, A-Z  
Subarrange each country or island by Table Q4  
Africa  
General works  
By country, island, or region, A-Z  
Subarrange each country or island by Table Q4  
Australia  
General works  
Local, A-Z  
New Zealand  
General works  
Local, A-Z  
Pacific and other oceanic islands. By island or group of islands, A-Z  
Tropics (General). Tropical climatology and meteorology  
Mountains (General). Mountain climatology and meteorology  
Arid regions. Deserts (General). Arid zone climatology

## Meteorology. Climatology

## Climatology and weather

## Geographic divisions -- Continued

## Temperate zones. Temperate climate

For works on temperate climate in specific geographic regions, see QC982-QC994.9, Land;  
QC994.1-QC994.9, Oceans

993.75

General works

993.8

Mediterranean climate (General)

Class here works on Mediterranean climate regions in general. For works on Mediterranean climate in specific geographic regions, see QC983-QC993; QC994.3

## Ocean areas. Maritime meteorology

Cf. GC190+ Ocean-atmosphere interaction

Cf. VK570 Ship routing

993.83

Periodicals, societies, congresses, serial publications

993.84

Observers' manuals. Handbooks, tables, formulas, etc.

Weather services see QC875.A2+

994

General works, treatises, and textbooks

## By region

994.1

Atlantic Ocean (General)

994.2

Atlantic, North

994.3

Mediterranean Sea

994.4

Atlantic, South

994.5

Indian Ocean

994.55

Pacific Ocean (General)

994.6

Pacific, North

994.7

Pacific, South

## Polar climatology and meteorology

994.75

General works

994.8

Arctic

994.9

Antarctic

## Weather forecasting

Including analyses and forecasts

Cf. QC875.A2+ Weather services

Cf. QC877.5 Weather broadcasting

994.95

Periodicals, societies, congresses, serial publications

995

General works, treatises, and textbooks

995.3

Pictorial works and atlases

995.4

Popular works

995.43

Juvenile works

995.45

Addresses, essays, lectures

995.46

Study and teaching. Research

## Technique (General)

Including graphical technique

995.48

General works

995.485

Observers' manuals

## Types of weather forecasting

995.5

Hydrodynamic

996

Numerical

996.5

Statistical

997

Long-range

997.5

Short-range

997.75

Nowcasting

998

## Weather lore

Cf. GR635+ Weather lore (as folklore)

999

Weather almanacs and miscellany

## Chemistry

For applications of chemistry in special fields, see the field, e.g. RS402+ Medical and pharmaceutical chemistry; S583+ Agricultural chemistry

For chemical technology, including chemical engineering see TP1+

1 Periodicals, societies, congresses, serial publications

## Museums

2.A1 General works

2.A2-Z By region or country, A-Z

Subarrange each country by Table Q5

3 Collected works (nonserial)

4 Encyclopedias

5 Dictionaries

6 Philosophy

7 Nomenclature, terminology, notation, abbreviations

## Communication of chemical information

8 General works

8.3 Information services

8.5 Chemical literature

9 Abstracting and indexing

9.15 Language. Authorship

9.2 Translating. Translating services

9.3 Computer network resources

Including the Internet

## History

11 General works

13 History of alchemy

14 Early works through 1800

15 1801-

18.A-Z By region or country, A-Z

20 Women in chemistry. Women chemists

For biography see QD21+

## Biography of chemists

Cf. QD24.A2+ Alchemists

Cf. QD903.5+ Crystallographers

21 Collective

22.A-Z Individual, A-Z

e.g.

22.C8 Curie, Marie and Pierre

23 Directories

## Alchemy

Cf. BR115.A57 Alchemy and Christianity

23.3 Periodicals, societies, congresses, serial publications

23.4 Collected works (nonserial)

23.5 Dictionaries and encyclopedias

History see QD13

## Biography

24.A2 Collective

24.A3-Z Individual, A-Z

25 Early works through 1800

26 General works, treatises, and textbooks

26.5.A-Z Special topics, A-Z

26.5.A4 Alkahest. Universal solvent

26.5.E4 Elixir of life

Philosopher's stone see QD25

27 Early works through 1761

General works, treatises, and advanced textbooks

- General works, treatises, and advanced textbooks -- Continued
- 28 1761-1860
  - 31 1861-1969
  - 31.2 1970-2000
  - 31.3 2001-
  - Elementary textbooks
    - 33 To 2000
    - 33.2 2001-
  - 35 Juvenile works
  - 37 Popular works
  - 38 Recreations, home experiments, etc.
  - 39 Addresses, essays, lectures
  - 39.2 Special aspects of the subject as a whole
  - 39.3.A-Z Special topics, A-Z
    - 39.3.C6 Computer programs
    - 39.3.E4 Electromechanical analogies
    - 39.3.E46 Electronic data processing. Cheminformatics
      - Cf. RS418 Pharmaceutical chemistry
    - 39.3.F33 Factor analysis
    - 39.3.G73 Graph theory
    - 39.3.M3 Mathematics
    - 39.3.P45 Phlogiston
    - 39.3.S55 Simulated annealing
    - 39.3.S67 Spreadsheets
    - 39.3.S7 Statistical methods
    - 39.3.W37 Water
  - 39.5 Chemistry as a profession. Vocational guidance
  - 39.7 Social aspects
  - Study and teaching. Research
    - 40 General works
    - 41 Outlines, syllabi
    - 42 Problems, exercises, examinations
      - For programmed textbooks see QD28+
    - 43 Experiments
      - Cf. QD38 Home experiments
    - 45 Laboratory manuals
      - By region or country
        - United States
          - 47 General works
          - 47.5.A-Z By region or state, A-Z
            - Subarrange each state by Table Q7
          - 49.A-Z Other regions or countries, A-Z
            - Subarrange each country by Table Q7
      - Special teaching methods and aids
        - 49.5 General works
        - 49.6.A-Z Special methods, A-Z
          - 49.6.P76 Process oriented guided inquiry learning
    - Laboratories
      - 51 General works
      - 51.5.A-Z By region or country, A-Z
        - Subarrange each country by Table Q6
    - Instruments and apparatus
      - 53 General works
      - 54.A-Z Special, A-Z
        - 54.A3 Absorption apparatus
        - 54.C4 Centrifuges

- Laboratories
  - Instruments and apparatus
    - Special, A-Z -- Continued
      - 54.E8 Eudiometer
      - 54.F85 Fume hoods
      - 54.L33 Labs on a chip
      - 54.P5 Pipettes
      - 54.S8 Sulfuric acid concentrator
      - 54.T4 Thermostat
  - Techniques and operations
    - 61 General works
    - 63.A-Z Special, A-Z
      - Cf. QD258+ Operations in organic chemistry
    - 63.D5 Dissolution
    - 63.D6 Distillation
      - Electric furnace operations (Inorganic chemistry) see QD157
      - Electric furnace operations (Organic chemistry) see QD277
    - 63.E83 Exchange reactions
    - 63.E88 Extraction
    - 63.F5 Filtration
    - 63.G5 Glass manipulation
    - 63.H87 Hydration
    - 63.H9 Hydrogenation
    - 63.I55 Ion exchange
    - 63.L3 Laser techniques
    - 63.M3 Masking
    - 63.N5 Nitration
    - 63.O9 Oxidation
    - 63.P4 Percolation
    - 63.R4 Reduction
    - 63.S4 Separation
    - 63.V33 Vacuum techniques
  - 63.5 Safety measures
  - 64 Waste disposal
  - 65 Handbooks, tables, formulas, etc.
- Catalogs, pricelists, etc. see TP202
- Analytical chemistry
  - For the analysis of special elements and their compounds see QD181.A+
  - For the analysis of organic compounds see QD271+
  - Cf. QE516.3 Analytical geochemistry
- 71 Periodicals, societies, congresses, serial publications
  - 71.2 Collected works (nonserial)
  - 71.5 Dictionaries and encyclopedias
  - 71.8 Nomenclature, terminology, notation, abbreviations
- History
  - 72 General works
    - 72.5.A-Z By region or country, A-Z
  - General works, treatises, and textbooks
    - 75 Through 1970
    - 75.2 1971-2000
    - 75.22 2001-
    - 75.25 Addresses, essays, lectures
    - 75.3 Special aspects of the subject as a whole
    - 75.4.A-Z Special topics, A-Z
      - 75.4.A8 Automation
      - 75.4.C34 Calibration

- Analytical chemistry  
 Special topics, A-Z -- Continued
- 75.4.C45 Chemometrics  
 75.4.E4 Electronic data processing  
 Forensic chemistry see RA1057
- 75.4.K54 Kinetics  
 (75.4.M36) Mathematics  
     see QD75.4.C45  
 (75.4.M4) Measurement  
     see QD75.4.C45  
 Preparation of samples see QD75.4.S24
- 75.4.Q34 Quality control  
 Sample introduction see QD75.4.S24
- 75.4.S24 Sample preparation. Sample introduction  
 75.4.S25 Sampling  
 75.4.S73 Stable isotopes  
 (75.4.S8) Statistical methods  
     see QD75.4.C45
- 75.4.U48 Ultrasonic waves
- Study and teaching. Research
- 75.7 General works  
 75.9 Problems, exercises, examinations  
 76 Laboratory manuals  
 77 Reagents, indicators, test papers, etc.  
 78 Handbooks, tables, formulas, etc.
- 79.A-Z Methods of analysis (Qualitative and quantitative), A-Z  
 Chemical microscopy see QH221  
 Chromatographic analysis  
     General works  
     Gas chromatography  
     Ion exchange chromatography  
     Ligand exchange chromatography  
     Liquid chromatography  
     Paper chromatography  
     Preparative layer chromatography  
     Radiochromatography  
     Thin layer chromatography
- 79.C4 Electron diffraction  
 79.C45 Electrophoresis  
 79.C453 Fluorimetry  
 79.C4537 Instrumental analysis  
 79.C454 Microchemical analysis  
 79.C46 Molecular emission cavity analysis see QD79.P4  
 79.C52 Oximetry  
 79.C75 Phosphorimetry. Molecular emission cavity analysis  
 79.C8 Photometry  
 79.E4 Radiochemical analysis see QD605+  
 79.E44 Sedimentation analysis  
 79.F4 Spectrum analysis see QD95+  
 79.I5 Thermal analysis  
 79.M5 Thermogravimetry
- Qualitative analysis
- 81 General works, treatises, and advanced textbooks  
 83 Elementary textbooks  
 84 Laboratory manuals  
 85 Tables, outlines, etc.



## Analytical chemistry

## Qualitative analysis -- Continued

- 87 Blowpipe analysis  
 Cf. QE367+ Determinative mineralogy
- Spectrum analysis (Qualitative and quantitative)  
 Class here works on the applications of spectroscopy in general analytical chemistry and theoretical works intended primarily for chemists.  
 For general works on the theory of spectroscopy and works intended primarily for physicists see QC450+  
 For compilations of spectra of elements, groups of elements, organic and inorganic compounds see QC462+  
 For works on the applications of spectroscopy in organic analytical chemistry see QD272.S6  
 Cf. CC79.S65 Spectrum analysis in archaeology
- 95 General works
- 95.5.A-Z Special topics, A-Z
- 95.5.D37 Data processing
- 95.5.S72 Statistical methods
- 96.A-Z Special methods and types of spectra, A-Z
- 96.A2 Absorption spectra  
 Including cavity-ringdown spectroscopy
- 96.A7 Arc spectra
- 96.A8 Atomic spectra
- 96.D48 Cavity-ringdown spectroscopy see QD96.A2
- 96.E4 Deuteron magnetic resonance spectroscopy
- 96.E44 Electron paramagnetic resonance spectroscopy
- 96.E46 Electron spectroscopy
- 96.F5 Emission spectroscopy
- 96.F56 Flame spectroscopy
- 96.F68 Fluorescence spectroscopy
- 96.F68 Fourier transform spectroscopy  
 Cf. QD96.I5 Fourier transform infrared spectroscopy  
 Cf. QD96.N8 Fourier transform nuclear magnetic resonance spectroscopy
- 96.I47 Inductively coupled plasma spectrometry  
 Class here works on all types of spectrum analytical methods using inductively coupled plasmas
- 96.I5 Infrared spectroscopy  
 Including Fourier transform infrared spectroscopy
- 96.I54 Ion cyclotron resonance spectroscopy  
 Ion mobility spectroscopy see QD96.P62
- 96.L3 Laser spectroscopy
- 96.L85 Luminescence spectroscopy
- 96.M3 Mass spectroscopy
- 96.M33 Matrix isolation spectroscopy
- 96.M5 Microwave spectroscopy
- 96.M6 Mössbauer spectroscopy
- 96.M65 Molecular spectra
- 96.N8 Nuclear magnetic resonance spectroscopy  
 Including Fourier transform nuclear magnetic resonance spectroscopy
- 96.N84 Nuclear quadrupole resonance spectroscopy
- 96.O6 Optoacoustic spectroscopy
- 96.P5 Photoelectron spectroscopy
- 96.P54 Photothermal spectroscopy
- 96.P62 Plasma spectroscopy  
 Including ion mobility spectroscopy  
 Cf. QD96.I47 Inductively coupled plasma spectrometry
- 96.P7 Proton magnetic resonance spectroscopy

- Analytical chemistry
  - Qualitative analysis
    - Spectrum analysis (Qualitative and quantitative)
      - Special methods and types of spectra, A-Z -- Continued
        - 96.R3 Radiofrequency spectroscopy
        - 96.R34 Raman spectroscopy
        - 96.R4 Reflectance spectroscopy
        - 96.R44 Relaxation spectroscopy
        - 96.S43 Secondary ion mass spectroscopy
        - 96.U4 Ultraviolet spectroscopy
        - 96.V53 Vibrational spectra
        - 96.X2 X-ray spectroscopy
      - Other special methods, A-Z
        - 98.A-Z Chromatography
        - 98.C4 Electron microprobe
        - 98.E4 Kinetic analysis
        - 98.K5 Microchemical analysis
        - 98.M5 Spot tests
        - 98.S6
  - Quantitative analysis
    - General works, treatises, and textbooks
      - 101 Through 1970
      - 101.2 1971-
    - Volumetric analysis
      - 111
    - Colorimetric analysis
      - 113
    - Electrochemical analysis
      - General works
        - 115
      - Special methods, A-Z
        - 116.A-Z
          - Anodic stripping voltammetry see QD116.V64
          - 116.C65 Conductometric analysis
          - 116.I57 Impedance spectroscopy
          - 116.P64 Polarography
          - 116.P68 Potentiometry
          - Stripping voltammetry see QD116.V64
          - 116.V64 Voltammetry
            - Including stripping voltammetry, anodic stripping voltammetry, etc.
      - Other special methods, A-Z
        - 117.A-Z Chromatography
          - 117.C5-.C52 General works
            - 117.C5 Gas chromatography
            - 117.C515 Liquid chromatography
            - 117.C517 Thin layer chromatography
            - 117.C52
          - 117.E4 Electron diffraction
          - 117.E42 Electron microprobe. Electron probe microanalysis
          - 117.E45 Electrophoresis
          - 117.F5 Fluorimetry
          - 117.M5 Microchemical analysis. Microchemistry
          - 117.P5 Photometry
          - 117.R3 Radiometry. Radiation measurement
          - 117.S64 Spectrophotometry
          - Spectrum analysis see QD95+
          - 117.T4 Thermal analysis
    - Gas analysis
      - 121
        - Including air analysis
          - Cf. TP754 Analysis, tests, etc. in the gas industry
  - Technical analysis
    - 130 Periodicals, societies, congresses, serial publications

- Analytical chemistry
  - Technical analysis -- Continued
- 131 General works, treatises, and textbooks
- Metals
- 132 General works
  - Assaying see TN550+
- 133 Iron and steel alloys
  - Alloys (General). Nonferrous alloys
    - General works
- 135 Special metal alloys, A-Z
  - For the analysis of metallic elements see QD181.A+
- 137.A6 Aluminum alloys
- 137.A8 Arsenic alloys
- 137.B3 Babbitt metal
- 137.C5 Chromium-iron-nickel alloys
- 137.C6 Copper alloys
- 137.F35 Ferrites (Magnetic materials)
- 137.F38 Ferroboron
- 137.F4 Ferrochromium
- 137.F44 Ferroniobium
- 137.F48 Ferrotungsten
- 137.G6 Gold alloys
  - Iron alloys (General) see QD133
- 137.M3 Magnesium alloys
- 137.N5 Nickel alloys
- 137.S5 Silver alloys
  - Steel alloys see QD133
- 137.U73 Uranium alloys
- 137.Z5 Zinc alloys
- 139.A-Z Other special, A-Z
  - Air see QD121
  - Air pollution see TD890
  - Carbonated beverages see TP628+
  - Cement see TP882.3
  - Ceramics see TP810
  - 139.C53 Cigarette smoke
  - Clay see TP811
  - Distilled beverages see TP609
  - 139.E4 Electrolytes
    - Fats, oils, and waxes see TP671
    - Fermentation industries see TP511
    - Food see TX545
    - Gas see QD121
    - Gas industry see TP754
  - 139.G5 Glass
    - Materials (General) see QD130+
    - Oils, fats, and waxes see TP671
    - Oils (Petroleum) see TP691
    - Plastics see TP1140
  - 139.P6 Polymers
  - 139.S44 Semiconductors
  - Sewage see TD735
  - 139.S5 Silicon organic compounds
  - (139.T5) Textiles
    - see TS1449
  - 139.T7 Trace elements

- Analytical chemistry
  - Technical analysis
    - Other special, A-Z -- Continued
    - Water see QD142
    - Water supply see TD380+
    - Wine see TP548.5.A5
- 142 Water analysis
  - Cf. TD380+ Water supply
- Inorganic chemistry
  - Cf. QD475 Physical inorganic chemistry
  - Cf. QE351+ Mineralogy
- 146 Periodicals, societies, congresses, serial publications
- 147 Collected works (nonserial)
- 148 Dictionaries and encyclopedias
- 149 Nomenclature, terminology, notation, abbreviations
- History
  - General works
    - By region or country, A-Z
  - Early works through 1800
  - General works, treatises, and advanced textbooks
    - 1801-1969
    - 1970-2000
    - 2001-
  - Elementary textbooks
  - Addresses, essays, lectures
  - Special aspects of the subject as a whole
  - Special topics, A-Z
    - Density functionals
    - Mathematics
    - Reaction mechanisms see QD502.5
  - Study and teaching. Research
    - General works
      - Outlines, syllabi, etc
    - Problems, exercises, examinations
    - Laboratory manuals
  - Handbooks, tables, formulas, etc.
  - Inorganic synthesis
  - Electric furnace operations
    - Cf. QD277 Electric furnace operations (Organic)
  - Nonmetals
    - General works
    - Gases
    - Chemistry of the air
      - Cf. TD881+ Air pollution
    - Halogens: Bromine, chlorine, fluorine, iodine
    - Inorganic acids
      - Cf. QD477 General theory of acids and bases
    - Other, A-Z
    - Chalcogenides
    - Heavy water see QD169.W3
    - Water
      - Cf. GB855+ Natural water chemistry
  - Metals
    - Cf. TN600+ Metallurgy
    - General works, treatises, and textbooks
    - By group, A-Z
- 149.5 General works
- 149.7.A-Z By region or country, A-Z
- 150 Early works through 1800
- General works, treatises, and advanced textbooks
  - 1801-1969
  - 1970-2000
  - 2001-
- 151 Elementary textbooks
- 151.2 Addresses, essays, lectures
- 151.3 Special aspects of the subject as a whole
- 151.5 Special topics, A-Z
  - Density functionals
  - Mathematics
  - Reaction mechanisms see QD502.5
- 152 Study and teaching. Research
  - General works
    - Outlines, syllabi, etc
  - Problems, exercises, examinations
  - Laboratory manuals
- 152.3 Handbooks, tables, formulas, etc.
- 152.5.A-Z Inorganic synthesis
- 152.5.D46 Electric furnace operations
  - Cf. QD277 Electric furnace operations (Organic)
- 152.5.M38 Nonmetals
  - General works
  - Gases
  - Chemistry of the air
    - Cf. TD881+ Air pollution
  - Halogens: Bromine, chlorine, fluorine, iodine
  - Inorganic acids
    - Cf. QD477 General theory of acids and bases
  - Other, A-Z
  - Chalcogenides
  - Heavy water see QD169.W3
  - Water
    - Cf. GB855+ Natural water chemistry
- 153 Metals
  - Cf. TN600+ Metallurgy
  - General works, treatises, and textbooks
  - By group, A-Z
- 153.5 General works
- 154 Outlines, syllabi, etc
- 154 Problems, exercises, examinations
- 155 Laboratory manuals
- 155.5 Handbooks, tables, formulas, etc.
- 156 Inorganic synthesis
- 157 Electric furnace operations
  - Cf. QD277 Electric furnace operations (Organic)
- 161 Nonmetals
  - General works
  - Gases
  - Chemistry of the air
    - Cf. TD881+ Air pollution
  - Halogens: Bromine, chlorine, fluorine, iodine
  - Inorganic acids
    - Cf. QD477 General theory of acids and bases
  - Other, A-Z
  - Chalcogenides
  - Heavy water see QD169.W3
  - Water
    - Cf. GB855+ Natural water chemistry
- 162 Metals
  - Cf. TN600+ Metallurgy
  - General works, treatises, and textbooks
  - By group, A-Z
- 163 General works
- 163 Gases
- 163 Chemistry of the air
  - Cf. TD881+ Air pollution
- 165 Halogens: Bromine, chlorine, fluorine, iodine
- 167 Inorganic acids
  - Cf. QD477 General theory of acids and bases
- 169.A-Z Other, A-Z
- 169.C5 Chalcogenides
- Heavy water see QD169.W3
- 169.W3 Water
  - Cf. GB855+ Natural water chemistry
- 171 Metals
  - Cf. TN600+ Metallurgy
  - General works, treatises, and textbooks
  - By group, A-Z
- 172.A-Z General works, treatises, and textbooks
- By group, A-Z

## Inorganic chemistry

## Metals

## By group, A-Z -- Continued

- 172.A3 Actinide elements
- 172.A4 Alkali metals
- 172.A42 Alkaline earth metals
- 172.I7 Iron group
- 172.M4 Magnesium group
- MXenes see QD172.T6
- 172.P8 Platinum group
- 172.P88 Precious metals
- 172.R2 Rare earth metals
- 172.S6 Spinel group
- 172.S93 Superheavy elements
  - Cf. QC796.2 Nuclear physics
- 172.T52 Titanium group
- 172.T6 Transition metals
  - Including MXenes
- 172.T65 Transplutonium elements
- 172.T7 Transuranium elements
- 181.A-Z Special elements. By chemical symbol, A-Z (Table Q1)
  - Class here works on the origin, properties, preparation, reactions, isotopes, and analytical chemistry of individual elements and their inorganic compounds.
  - For the determination of atomic and molecular weights see QD464.A+

## Salts

- 189 General works
- 191 Double salts
- 193 Complex salts
- 194 Oxysalts
- 196 Inorganic polymers and polymerization
- 197 Cyclic compounds

## Organic chemistry

- Cf. QD476 Physical organic chemistry
- Cf. QD478 Solids. Solid state chemistry (Inorganic and organic)
- 241 Periodicals, societies, congresses, serial collections
- (243) Yearbooks
  - see QD241
- 245 Collected works (nonserial)
- 246 Dictionaries and encyclopedias
- History
  - 248 General works
  - 248.5.A-Z By region or country, A-Z
- General works, treatises, and advanced textbooks
  - 251 Through 1970
  - 251.2 1971-2000
  - 251.3 2001-
- Elementary textbooks
  - 253 To 2000
  - 253.2 2001-
- Nomenclature, terminology, notation, abbreviations see QD291
- 254 Classification
- 255 Addresses, essays, lectures
- 255.4 Special aspects of the subject as a whole
- 255.5.A-Z Special topics, A-Z
  - 255.5.E4 Electronic data processing
  - 255.5.M35 Mathematics

- Organic chemistry
  - Special topics, A-Z -- Continued
  - 255.5.R33 Radiation effects
  - Reaction mechanisms see QD502.5
  - Study and teaching. Research
    - 256 General works
    - 256.5 Outlines, syllabi
    - 257 Problems, exercises, examinations
    - 257.5 Experiments
    - 257.7 Handbooks, tables, formulas, etc.
  - Operations in organic chemistry
    - 258 General works
    - 261 Laboratory manuals
    - 262 Organic synthesis
      - Including general works on combinatorial chemistry
      - For works on pharmaceutical aspects of combinatorial chemistry see RS419
  - Organic analysis
    - Class here general works on the analysis of organic compounds
    - For the analysis of specific organic compounds or groups of compounds, see QD301
    - For works on the analysis of both organic and inorganic compounds see QD71+
- 271.A1 Periodicals, societies, congresses, serial publications
- 271.A2-Z General works, treatises, and textbooks
- Reagents, indicators, test papers, etc.
  - 271.3 General works
  - 271.35.A-Z Special topics, A-Z
  - 271.35.E54 Electrophiles. Superelectrophiles
  - 271.4 Qualitative analysis
    - Prefer QD272 for special methods in qualitative analysis
  - 271.7 Quantitative analysis
    - Prefer QD272 for special methods in quantitative analysis
- 272.A-Z Special methods of analysis (Qualitative and quantitative), A-Z
  - Chromatography
    - 272.C4 General works
    - 272.C44 Gas chromatography
    - 272.C444 Gel permeation chromatography
    - 272.C447 Liquid chromatography
    - 272.C45 Thin layer chromatography
  - 272.C6 Colorimetric analysis
  - 272.E4 Electrochemical analysis
  - 272.E43 Electrophoresis
  - 272.E5 Enzymatic analysis
  - 272.M5 Microchemical analysis
  - 272.P5 Photometry
  - 272.S57 Spectrophotometry
  - 272.S6 Spectrum analysis
    - Works on the application of spectroscopy in general or inorganic analytical chemistry are classed in QD95
    - For compilations of spectra see QC462+
- 272.T45 Thermal analysis
- 272.V6 Volumetric analysis
- 273 Electrochemistry of organic compounds
  - Cf. QP517.B53 Bioelectrochemistry
- 275 Organic photochemistry
  - Cf. QP517.P45 Photobiochemistry
- 277 Electric furnace operations
- 281.A-Z Other special, A-Z

- Organic chemistry
  - Operations in organic chemistry
    - Other special, A-Z -- Continued
      - 281.A2 Acylation
      - 281.A5 Alkylation
      - 281.A6 Amination
      - 281.A63 Ammonolysis
      - 281.B7 Bromination
      - 281.C3 Catalysis
      - 281.C5 Chlorination
      - 281.C7 Condensation
      - 281.D4 Cyclization see QD281.R5
      - 281.D47 Dehydrogenation
      - 281.D5 Dialysis
      - 281.D5 Distillation
      - 281.E4 Elimination reactions
      - 281.F5 Flotation
      - 281.F55 Fluorination
      - 281.F7 Fragmentation reactions
      - 281.H3 Halogenation
      - 281.H78 Hydroboration
      - 281.H79 Hydroformylation
      - 281.H8 Hydrogenation
      - 281.H83 Hydrolysis
      - 281.H84 Hydrosilylation
      - 281.H85 Hydroxylation
      - 281.I7 Isotopic exchange reactions
      - 281.M48 Methylation
      - 281.N5 Nitration
      - 281.O9 Oxidation
      - 281.O95 Ozonolysis. Ozonization
      - 281.P46 Phosphorylation
      - 281.P6 Polymerization. Telomerization
      - 281.P9 Pyrolysis
      - 281.Q5 Quinoidation
      - 281.R35 Rearrangement reactions. Rearrangements
      - 281.R4 Reduction
      - 281.R5 Ring formation
        - Including ring breaking, enlargement, and closure, and ring-opening polymerization
      - 281.S5 Silylation
      - 281.S6 Solvolysis
      - 281.S67 Substitution reactions
      - 281.S7 Sulfonation
        - Telomerization see QD281.P6
  - 291 Nomenclature, terminology, notation, abbreviations
  - Aliphatic compounds
    - 300 Periodicals, societies, congresses, serial publications
    - 301 General works, treatises, and textbooks
    - 302 Special aspects of the subject as a whole
    - 305.A-Z Special groups, A-Z
      - Including works on both aliphatic and aromatic aspects of functional groups
      - For works on special groups of aromatic compounds only see QD341.A+
      - 305.A2 Acids and esters
      - 305.A4 Alcohols
      - 305.A6 Aldehydes and other carbonyl compounds
        - For ketones see QD305.K2

- Organic chemistry
  - Aliphatic compounds
    - Special groups, A-Z -- Continued
    - 305.A7 Amides and hydrazides
      - Cf. QD315 Urea
      - Amino acids see QD431+
    - 305.A8 Amino compounds
    - 305.A9 Azo, hydrazo, and diazo compounds
    - 305.C3 Carbanions and carbonium ions, free radicals, ylides
    - 305.E7 Ethers and oxides
    - 305.F2 Fats and fatty oils
      - Cf. QP751+ Animal biochemistry
      - Cf. TP669+ Chemical technology
    - Free radicals see QD305.C3
    - Glycols see QD305.A4
    - 305.H15 Halogen compounds
    - Hydrocarbons
      - 305.H5 General works
      - 305.H6 Alkanes (Paraffins)
      - 305.H7 Alkenes (Olefins)
        - Cf. TP248.A554 Chemical technology
      - 305.H8 Alkynes (Acetylene, etc.)
      - 305.H9 Alicyclic compounds (Non-aromatic compounds with ring structure)
      - 305.I6 Imides, imidoesters, etc.
      - 305.K2 Ketones, ketenes, and oximes
      - 305.N7 Nitriles and cyanogen derivatives
      - 305.N8 Nitro and nitroso compounds
      - 305.N84 Nitrogen derivatives (General)
      - 305.P46 Phosphorus derivatives (General)
      - Radicals see QD305.C3
      - 305.S54 Silicon compounds
      - 305.S83 Sulfones
      - 305.S84 Sulfur derivatives (General)
      - 305.T45 Thio compounds
      - Ylides see QD305.C3
    - 315 Urea and related compounds
      - Cf. QP801.U7 Animal biochemistry
  - Carbohydrates
    - Including sugars, starch, etc.
    - Cf. QP701+ Animal biochemistry
    - Cf. TP375+ Sugar manufacture
    - Cf. TP415+ Starch
- 320 Periodicals, societies, congresses, serial publications
- 321 General works, treatises, and textbooks
- 322.A-Z Special topics, A-Z
  - 322.A52 Analysis
  - 322.S95 Synthesis
- 323 Cellulose
  - Including hemicellulose
- 325 Glycosides
  - Including glucosides, mannosides, and galactosides
- 327 Tannins
- Aromatic compounds
  - Cf. QD390+ Condensed benzene rings
  - Cf. QD399+ Heterocyclic compounds
- 330 Periodicals, societies, congresses, serial publications



## Organic chemistry

## Aromatic compounds -- Continued

- 331 General works, treatises, and textbooks
- 335 Special aspects of the subject as a whole
- 341.A-Z Special groups, A-Z
- 341.A2 Acids and esters
- 341.A4 Alcohols
- 341.A6 Aldehydes and other carbonyl compounds
  - For ketones see QD341.K2
- 341.A7 Amides and hydrazides
- Amino acids see QD431+
- 341.A8 Amino compounds
- 341.A83 Annulenes
- 341.A9 Azo, hydrazo, and diazo compounds
- Benzene see QD341.H9
- 341.E7 Ethers and oxides
- 341.H8 Halogen compounds
- 341.H9 Hydrocarbons, benzene, etc.
- 341.I6 Imino compounds
- 341.K2 Ketones
- 341.N7 Nitriles and cyanogen derivatives
- 341.N8 Nitro and nitroso compounds
- 341.N83 Nitrogen derivatives (General)
- 341.P5 Phenols
- 341.P6 Pseudophenols
- 341.Q4 Quinones
- 341.S3 Sulfur derivatives (General)
- 341.S6 Sulfoxides and sulfones
- 341.S8 Sulfonium compounds

## Antibiotics

- Cf. QP801.A63 Animal biochemistry
- Cf. RM265+ Therapeutics
- 375 General works, treatises, and textbooks
- 377.A-Z Special substances, A-Z
- 377.C4 Cephalosporin
- 377.C5 Chloromycetin
- 377.P4 Penicillin
- 377.P55 Pimaricin
- 377.S8 Streptomycin
- 377.S85 Streptothricin
- 377.T45 Tetracycline
- 377.V5 Viomycin

## Polymers. Macromolecules

- Class here general works on chemical and physical properties of polymers
- For works on physical properties see QC173.4.P65
- Cf. QD139.P6 Technical analysis
- Cf. QD196 Inorganic polymers
- Cf. QD281.P6 Polymerization (Organic chemistry)
- Cf. QD399+ Macrocyclic compounds
- Cf. TP156.P6 Polymerization (Chemical engineering)
- Cf. TP1080+ Polymer technology
- 380 Periodicals, societies, congresses, serial publications
- 380.3 Dictionaries and encyclopedias
- 380.6 Nomenclature, terminology, notation, abbreviations
- 380.7 Classification
- 381 General works, treatises, and textbooks

## Organic chemistry

## Polymers. Macromolecules -- Continued

- 381.3 Juvenile works
- 381.7 Addresses, essays, lectures
- 381.8 Special aspects of the subject as a whole
- 381.9.A-Z Special topics, A-Z
  - 381.9.A25 Acoustic properties
  - 381.9.C64 Conformational analysis
  - 381.9.D47 Deterioration
  - 381.9.E38 Electric properties
  - 381.9.E4 Electronic data processing
  - 381.9.M3 Mathematical models
  - 381.9.M64 Molecular weights
  - 381.9.O66 Optical properties
  - 381.9.P45 Permeability
  - 381.9.P56 Photochemistry
  - 381.9.R3 Radiation effects
  - 381.9.R43 Reduced gravity effects
  - 381.9.R48 Rheology
  - 381.9.S44 Ring-opening polymerization see QD281.R5
  - 381.9.S44 Separation. Fractionation
  - 381.9.S65 Solubility and solutions
  - 381.9.S87 Structure
  - 381.9.S97 Surfaces and interfaces
  - 381.9.T54 Thermal properties
- 382.A-Z Special types, A-Z
  - 382.A47 Amphiphiles
  - 382.B47 Biomimetic polymers
  - 382.B5 Block copolymers
  - 382.B73 Branched polymers
    - Including star-branched polymers and hyper-branched polymers
  - 382.C66 Conducting polymers. Conjugated polymers
  - 382.C665 Conjugated oligomers
    - Including oligothiophenes
  - 382.C67 Conjugated polymers see QD382.C66
  - 382.C67 Coordination polymers
  - 382.C78 Crosslinked polymers see QD382.P67
  - 382.C78 Crystalline polymers
  - 382.E48 Emulsion polymers
  - 382.F55 Fluorescent polymers
  - 382.G7 Graft copolymers
  - 382.H4 Heat resistant polymers
  - 382.H48 Heterochain polymers
  - 382.I43 Hyper-branched polymers see QD382.B73
  - 382.I43 Imprinted polymers
  - 382.I45 Ionomers
  - 382.O43 Metallofoldamers see QD382.O43
  - 382.O43 Oligomers
    - Including metallofoldamers
  - 382.P45 Photochromic polymers see QD382.P45
  - 382.P45 Photopolymers. Photochromic polymers
  - 382.P64 Polyelectrolytes
    - Including polyampholytes
  - 382.P64 Polymer colloids see QD549.2.P64
  - 382.P64 Polymer liquid crystals see QD923

## Organic chemistry

## Polymers. Macromolecules

## Special types, A-Z -- Continued

- 382.P67 Polymer networks. Crosslinked polymers
- 382.R43 Reactive polymers
- 382.S4 Semiconductors
- Star-branched polymers see QD382.B73

- 382.T44 Telechelic polymers
- 382.T46 Thermoresponsive polymers
- 382.W3 Water-soluble polymers

## 383.A-Z Special substances, A-Z

- 383.A27 Acrylic polymers
- 383.A55 Amine polymers
- 383.A95 Azo polymers
- 383.B67 Boron organic polymers
- 383.E66 Epoxy polymers
- 383.F48 Fluoropolymers
- 383.F84 Fullerene polymers
- 383.G57 Glutamic acid polymers
- Methacrylate polymers see QD383.A27
- 383.S54 Silicon polymers
- 383.V56 Vinyl polymers

## 385 Laboratory manuals

## 388 Handbooks, tables, formulas, etc.

## Condensed benzene rings

- 390 General works, treatises, and textbooks
- 390.3 Special aspects of the subject as a whole
- 391 Naphthalene and naphthalene derivatives
- 393 Anthracene and anthracene derivatives
- 395 Phenanthrene and phenanthrene derivatives

## Heterocyclic and macrocyclic chemistry and compounds

- 399 Periodicals, societies, congresses, serial publications
- 400 General works, treatises, and textbooks
- 400.3 Special aspects of the subject as a whole
- 400.5.A-Z Special topics, A-Z
- 400.5.S95 Synthesis
- 401 Cyclic compounds containing N (nitrogen)
- 403 Cyclic compounds containing S (sulfur)
- 405 Cyclic compounds containing O (oxygen)
- 406 Cyclic compounds containing P (phosphorus)

## Organometallic chemistry and compounds

Cf. QD882 Supramolecular organometallic chemistry

- 410 Periodicals, societies, congresses, serial publications
- 411 General works, treatises, and textbooks
- 411.5 Addresses, essays, lectures
- 411.7.A-Z Special topics, A-Z
- 411.7.A53 Analysis
- 411.7.B37 Barbier reactions
- 411.7.S94 Synthesis
- 411.7.T47 Thermal properties
- 411.8.A-Z Special groups of substances, A-Z
- 411.8.A47 Alkoxides
  - Including aryloxides
- 411.8.R37 Rare earth metals
- 411.8.T73 Transition metals
- 412.A-Z Special compounds. By chemical symbol of added element, A-Z (Table Q1)

## Organic chemistry

## Organometallic chemistry and compounds -- Continued

412.5

Handbooks, tables, formulas, etc.

## Biochemistry

Class here works on chemical aspects of biological materials

Cf. QD476.2 Physical biochemistry

Cf. QH345 General biochemistry of plants and animals

Cf. QK861+ Plant biochemistry

Cf. QP501+ Animal biochemistry

415.A1

Periodicals, societies, congresses, serial publications

415.A2

Collected works (nonserial)

415.A25

Dictionaries and encyclopedias

415.A3-Z

General works, treatises, and textbooks

415.2

Addresses, essays, lectures

415.3

Problems, exercises, examinations

415.5

Laboratory manuals

415.7

Handbooks, tables, formulas, etc.

Antibiotics see QD375+

Terpenes, camphors, etc. Essential oils

Cf. TP958+ Essences (Chemical technology)

416.A1

Periodicals, societies, congresses, serial publications

416.A3-Z

General works, treatises, and textbooks

416.2

Addresses, essays, lectures

416.3

Problems, exercises, examinations

416.5

Laboratory manuals

416.7

Handbooks, tables, formulas, etc.

## Gums and resins

Cf. TP977+ Chemical technology

Cf. TP1101+ Plastic materials for synthetic gums and resins

419.A1

Periodicals, societies, congresses, serial publications

419.A3-Z

General works, treatises, and textbooks

419.2

Addresses, essays, lectures

419.3

Problems, exercises, examinations

419.5

Laboratory manuals

419.7

Handbooks, tables, formulas, etc.

## Alkaloids

Cf. QK898.A4 Plant constituent

Cf. RM666.A4 Therapeutics

Cf. RS431.A53 Pharmaceutical chemistry

421.A1

Periodicals, societies, congresses, serial publications

421.A3-Z

General works, treatises, and textbooks

421.2

Addresses, essays, lectures

421.3

Problems, exercises, examinations

421.5

Laboratory manuals

421.7

Handbooks, tables, formulas, etc.

## Steroids

Cf. QP752.S7 Animal biochemistry

Cf. RS163.S8 Materia medica

426.A1

Periodicals, societies, congresses, serial publications

426.A3-Z

General works, treatises, and textbooks

426.2

Addresses, essays, lectures

426.3

Problems, exercises, examinations

426.5

Laboratory manuals

426.7

Handbooks, tables, formulas, etc.

## Organic chemistry

## Biochemistry -- Continued

Proteins, peptides, amino acids, etc.

Cf. QP551+ Animal biochemistry

Cf. TX553.P7 Special constituents of food

431.A1 Periodicals, societies, congresses, serial publications

431.A3-Z General works, treatises, and textbooks

431.2 Addresses, essays, lectures

431.25.A-Z Special topics, A-Z

431.25.A53 Analysis

431.25.D47 Derivatives

431.25.S85 Structure

431.25.S93 Synthesis

431.3 Problems, exercises, examinations

431.5 Laboratory manuals

431.7 Handbooks, tables, formulas, etc.

## Nucleic acids

433.A1 Periodicals, societies, congresses, serial publications

433.A3-Z General works, treatises, and textbooks

433.5.A-Z Special topics, A-Z

433.5.S77 Structure

434 Ribonucleic acids

435 Deoxyribonucleic acids

436.A-Z Other related substances, A-Z

436.N85 Nucleotides

441

## Colored compounds

Including phthaleins, eosin, animal and plant pigments

Cf. QK899 Botany

Cf. QP670+ Animal biochemistry

Cf. TP909.2+ Chemical technology

## Physical and theoretical chemistry

Cf. QC170+ Constitution and properties of matter

450 Periodicals, societies, congresses, serial publications

450.2 Collected works (nonserial)

451 Dictionaries and encyclopedias

451.5 Nomenclature, terminology, notation, abbreviations

## History

452 General works

452.5.A-Z By region or country, A-Z

## General works, treatises, and textbooks

453 Through 1970

453.2 1971-2000

453.3 2001-

455 Addresses, essays, lectures

455.2 Special aspects of the subject as a whole

455.3.A-Z Special topics, A-Z

455.3.C64 Computer simulation

455.3.E4 Electronic data processing

455.3.F73 Fractals

455.3.G7 Graphic methods

455.3.G75 Group theory

455.3.L53 Lie algebras

455.3.M3 Mathematics

455.3.T65 Topology

## Study and teaching. Research

455.5 General works

- Physical and theoretical chemistry  
 Study and teaching. Research -- Continued
- 455.7 Outlines, syllabi  
 456 Problems, exercises, examinations  
 457 Laboratory manuals  
 457.2 Computer-assisted instruction  
 458 Handbooks, tables, formulas, etc.  
 461 Atomic and molecular theory and structure. Laws of chemical combination and chemical bonds. Molecular dimensions  
     Cf. QD469 Valence
- 461.5 Excited state chemistry  
 Quantum chemistry
- 462.A1 Periodicals, societies, congresses, serial publications  
 462.A3-Z General works, treatises, and textbooks  
 462.5 Addresses, essays, lectures  
 462.6.A-Z Special topics, A-Z  
 462.6.D38 Data processing  
 462.6.D45 Density functionals  
 462.6.D46 Density matrices  
 462.6.E53 Energy levels  
 462.6.M36 Many-body methods  
 462.6.M39 Mathematics  
 462.6.M66 Monte Carlo method  
 462.6.P68 Potential energy surfaces  
 462.6.R42 Relativistic effects  
 462.6.R44 Relaxation phenomena  
 462.6.S25 Scaling  
 462.6.S94 Symmetry groups  
 462.7 Problems, exercises, examinations  
 462.9 Handbooks, tables, formulas, etc.
- Atomic and molecular weights
- 463 General works, treatises, and textbooks  
 464.A-Z Individual elements and their compounds. By chemical symbol of principal element, A-Z  
     (Table Q1)
- Chemical elements  
 Nature and properties
- 466 General works  
 466.5 Isotopes  
     For isotopes of individual elements see QD181.A+  
     Cf. QD601+ Radiochemistry  
     Cf. TK9400+ Radioisotopes in nuclear engineering
- 467 Classification. Periodic law  
 469 Valence  
     Cf. QC176.8.V34 Valence fluctuations
- 470 Allotropy  
 471 Chemical compounds - Structure and formulas  
     Including isomerism, mesomerism, tautomerism  
     Cf. QD481 Stereochemistry
- 473 Physical properties in relation to structure  
     Including odor, color, and optical properties  
     Cf. QD441 Colored organic compounds  
     Cf. QD931+ Physical properties of crystals
- 474 Complex compounds  
     Including clathrate and coordination compounds, chelates, and hydrates  
     Cf. QD410+ Organometallic compounds
- 475 Physical inorganic chemistry

- Physical and theoretical chemistry -- Continued
- 476 Physical organic chemistry
- 476.2 Physical biochemistry
- 477 Acids and bases (General theory)
- 478 Solids. Solid state chemistry (Inorganic and organic)
- Cf. QC176+ Solid state physics
- Cf. QD506+ Surface chemistry
- Cf. QD901+ Crystallography
- Cf. TN689+ Physical metallurgy
- 480 Models of atoms, molecules, or chemical compounds
- 481 Stereochemistry. Molecular rotation
- Cf. QP517.S83 Biochemistry
- Conditions and laws of chemical reactions
- 501 General works
- Chemical kinetics and mechanisms
- 502 General works
- 502.2 Nonlinear chemical kinetics. Oscillating chemical reactions
- 502.5 Reaction mechanisms
- Including inorganic and organic mechanisms
- 503 Chemical equilibrium. Phase rule, etc.
- 504 Thermodynamics
- 505 Catalysis
- Cf. QD569 Electrocatalysis
- Cf. QD716.P45 Photocatalysis
- 505.5 Chemical affinity and reactivity
- 505.8 Chemiluminescence
- Surface chemistry
- 506.A1 Periodicals, societies, congresses, serial publications
- 506.A3-Z General works, treatises, and textbooks
- 508 Addresses, essays, lectures
- 509.A-Z Special topics, A-Z
- 509.G37 Gas-solid interfaces
- 509.L54 Liquid-liquid interfaces
- Liquid-solid interfaces see QD509.S65
- 509.M46 Metallic oxides
- 509.M65 Monomolecular films
- 509.S65 Solid-liquid interfaces
- Thermochemistry
- Cf. QC301+ Change of state (Physics)
- Cf. QD79.T38 Thermal analysis (Analytical chemistry)
- Cf. QD117.T4 Thermal analysis, Quantitative
- Cf. QD157 Electric furnace operations (Inorganic chemistry)
- Cf. QD277 Electric furnace operations (Organic chemistry)
- 510 Periodicals, societies, congresses, serial publications
- 511 General works, treatises, and textbooks
- 511.3 Addresses, essays, lectures
- 511.7 Problems, exercises, examinations
- 511.8 Handbooks, tables, formulas, etc.
- 515 Chemistry of high and low temperatures
- 516 Heat of formation, combustion, flame, explosion
- Cf. TH9446.3+ Flammability of materials
- Cf. TJ254.5+ Combustion engineering
- 517 Dissociation
- 518 Melting and boiling points

- Physical and theoretical chemistry  
 Thermochemistry -- Continued
- 526 Fractional distillation  
     Cf. QD63.D6 Special operations in chemistry  
     Cf. QD281.D5 Operations in organic chemistry  
     Cf. TP156.D5 Chemical engineering processes  
     Cf. TP589+ Distilling industries
- 531 Manipulation of gases and vapors  
     Cf. TP242+ Chemical technology of gases
- 533 Vapor densities
- 535 Liquefaction of gases  
     Cf. TP243 Manufacture of liquefied gases
- 536 Research at low temperatures  
     Cf. TP480+ Low temperature engineering
- 538 Chemistry of high and low pressures  
 Theory of solution  
     Cf. QC182+ Special properties of matter  
     Cf. QD565 Electrolyte solutions
- 540 Periodicals, societies, congresses, serial publications
- 541 General works, treatises, and textbooks
- 543 Solubility, osmotic pressure, diffusion, etc.  
 Solvents  
     General works  
     544.3 Aqueous  
     544.5 Nonaqueous  
         Cf. TP247.5 Technology of organic solvents
- 545 Freezing points and vapor pressures
- 547 Flocculation, precipitation, adsorption, etc.
- 548 Supersaturated solutions. Crystallization, etc.  
     Cf. QD921+ Crystal structure and growth
- Colloids, sols, gels  
     Cf. QP525 Animal biochemistry  
     Cf. S593.3 Soil colloids
- 549 General works  
 549.2.A-Z Special topics, A-Z  
 549.2.C64 Colloidal crystals  
 549.2.C66 Complex fluids  
 549.2.F74 Freezing  
 549.2.P64 Polymer colloids
- Electrochemistry. Electrolysis  
     Cf. QC610.3+ Electric conductivity, electromotive force  
     Cf. QD115+ Electrochemical analysis  
     Cf. QD272.E4 Electrochemical analysis of organic compounds  
     Cf. QD273 Electrochemistry of organic compounds  
     Cf. QD880 Electrochemistry of supramolecular compounds  
     Cf. QP517.B53 Bioelectrochemistry  
     Cf. TP250+ Industrial electrochemistry
- 551 Periodicals, societies, congresses, serial publications
- 552 Collected works (nonserial)
- 552.5 Dictionaries and encyclopedias
- 553 General works, treatises, and textbooks
- 554 Popular works
- 554.5 Juvenile works
- 555 Addresses, essays, lectures
- 555.5 Special aspects of the subject as a whole
- 555.6.A-Z Special topics, A-Z



- Physical and theoretical chemistry  
 Electrochemistry. Electrolysis  
 Special topics, A-Z -- Continued
- 555.6.E4 Electronic data processing
  - 555.6.G74 Green's functions
  - 555.6.I58 Interfaces
  - 555.6.L37 Laser electrochemistry
  - 555.6.M36 Mathematical models
  - 555.6.N65 Nonaqueous solvents
  - 555.6.S65 Spectrum analysis
  - 555.8 Study and teaching. Research
  - 556 Problems, exercises, examinations
  - 557 Laboratory manuals
  - Electrochemical laboratories
  - 558 General works
  - 558.2.A-Z By region or country, A-Z
    - Subarrange each country by Table Q6
  - 559 Instruments and apparatus
  - 560 Handbooks, tables, formulas, etc.
  - Ions and ionization
  - 561 General works
  - 562.A-Z Special topics, A-Z
    - 562.A54 Anion separation
    - 562.A75 Aqua ions
    - Dissociation see QD562.I65
    - 562.E44 Electromotive force
    - 562.E45 Electrophoresis
    - 562.H93 Hydrogen-ion concentration
    - 562.I63 Ion exchange. Ion exchange membranes
    - 562.I65 Ionization. Dissociation
    - 562.M54 Migration and velocity
    - Photodissociation see QD716.P48
    - Photoionization see QD716.P48
    - Velocity see QD562.M54
  - 564 Electric double layer
  - 565 Electrolytes, electrolyte solutions
    - Cf. TS672 Plating baths
  - 568 Electrolytic cells
    - Cf. TK2901+ Electric power production from chemical action
  - 569 Electrocatalysis
  - 571 Electrode phenomena. Polarization, etc.
  - 572.A-Z Special electrodes, A-Z
    - 572.A65 Alkali metal
    - 572.C37 Carbon
    - 572.G53 Glass
    - 572.H94 Hydrides
    - 572.I66 Ion selective
    - 572.I76 Iron
    - 572.M34 Magnesium
    - 572.N53 Nickel
    - 572.O85 Oxide
    - 572.O88 Oxygen
    - 572.S95 Sulfur
  - 575.A-Z Special groups of substances, A-Z
    - 575.C65 Complex compounds
    - 575.G53 Glass

- Physical and theoretical chemistry
  - Electrochemistry. Electrolysis
    - Special groups of substances, A-Z -- Continued
  - 575.P67 Porous materials
  - 576.A-Z Special substances. By chemical symbol of principal element, A-Z (Table Q1)
  - 578 Photoelectrochemistry
  - 581 Plasma chemistry
    - Cf. TP156.P5 Industrial plasma chemistry
  - 591 Magnetochemistry
    - Cf. QD940 Magnetic properties of crystals
  - Radiochemistry. Nuclear chemistry
    - Cf. QC794.95+ Radioactivity, radioactive substances in nuclear physics
    - Cf. TK9350 Nuclear engineering
    - Cf. TP249 Industrial radiochemistry. Industrial radiation chemistry
- 601.A1 Periodicals, societies, congresses, serial publications
- 601.A2 Collected works (nonserial)
- General works, treatises, and textbooks
  - 601.A4-Z Through 1970
  - 601.2 1971-2000
  - 601.3 2001-
  - 602 Addresses, essays, lectures
  - 602.4 Special aspects of the subject as a whole
  - 602.5.A-Z Special topics, A-Z
    - 602.5.E4 Electronic data processing
  - 603.A-Z Special substances. By chemical symbol of principal element, A-Z (Table Q1)
  - Study and teaching. Research
    - 604 General works
    - 604.3 Problems, exercises, examinations
    - 604.5 Experiments
    - 604.7 Laboratory manuals
    - Radiochemical laboratories. Hot laboratories
      - Cf. QC788+ Nuclear physics research laboratories and projects
    - 604.8 General works
    - 604.85.A-Z By region or country, A-Z
      - Subarrange each country by Table Q6
    - 604.9 Handbooks, tables, formulas, etc.
    - Radiochemical analysis
      - 605 General works
      - 606 Radioactivation analysis. Nuclear activation analysis
      - 607 Tracer techniques
        - For applications in special fields, see the field, e.g. QH324.3 Biology
    - 608 Isotope dilution analysis
  - Radiation chemistry
    - Cf. QC474+ Radiation physics
    - Cf. TA418.6 Radiation effects and tests of materials
    - Cf. TP249 Industrial radiochemistry. Industrial radiation chemistry
- 625 Periodicals, societies, congresses, serial publications
- 626 Collected works (nonserial)
- General works, treatises, and textbooks
  - 635 Through 1970
  - 636 1971-
  - 641 Addresses, essays, lectures
  - 642 Special aspects of the subject as a whole
  - 643.A-Z Special topics, A-Z
    - 643.C5 Chemical dosimetry
    - 643.P84 Pulse radiolysis

- Physical and theoretical chemistry
  - Radiation chemistry -- Continued
    - Study and teaching. Research
      - General works
      - Problems, exercises, examinations
      - Experiments
      - Laboratory manuals
      - Handbooks, tables, formulas, etc.
    - Special substances. By name, A-Z
      - Actinide elements
      - Alcohol
      - Ammonia
      - Carbohydrates
      - Hydrocarbons
      - Mercapto compounds. Thiols
      - Methanol
      - Nitrous oxide
      - Polymers
      - Thiols see QD651.M38
      - Water
    - Particular types of radiation and chemical reaction, e.g. x-rays (not A-Z)
  - Photochemistry
    - Cf. QD275 Organic photochemistry
    - Cf. QD578 Photoelectrochemistry
    - Cf. QP517.P45 Photobiochemistry
    - Cf. TP249.5 Industrial photochemistry
    - Cf. TR200+ Photographic chemistry
- 701 Periodicals, societies, congresses, serial publications
  - General works, treatises, and textbooks
    - Through 1970
    - 1971-
  - Addresses, essays, lectures
  - Special aspects of the subject as a whole
  - Special topics, A-Z
    - Flash photolysis
    - Laser photochemistry
      - Including femtochemistry
    - Oxidation-reduction
    - Photocatalysis
    - Photochromism
    - Photodissociation. Photoionization
      - Class here general works on chemical and physical aspects of photoionization.
      - For works on the physics of ionization produced by photons of light, X-rays or gamma rays see QC702.7.P48
  - Photopolymerization
    - Class here general works on photopolymerization
    - For works on inorganic polymerization see QD196
    - For works on organic polymerization see QD281.P6
- 719 Handbooks, tables, formulas, etc.
- 730.A-Z Special groups of substances, A-Z
  - 730.C65 Coordination compounds
    - Polymers see QD381.9.P56
  - 730.S35 Semiconductors
  - 730.T73 Transition metal compounds
  - 731.A-Z Special substances. By chemical symbol of principal element, A-Z (Table Q1)

- Physical and theoretical chemistry -- Continued
- 801 Sonochemistry  
Cf. TP156.A33 Industrial use of sounds and ultrasonics
- 850 Mechanical chemistry  
Supramolecular chemistry  
Cf. QD380+ Macromolecules
- 875 Periodicals, societies, congresses, serial publications
- 876 Dictionaries and encyclopedias
- 878 General works, treatises, and textbooks
- 880 Electrochemistry of supramolecular compounds
- 882 Supramolecular organometallic chemistry
- Crystallography  
Cf. QE372+ Descriptive mineralogy
- 901 Periodicals, societies, congresses, serial publications
- 901.2 Collected works (nonserial)
- 902 Dictionaries and encyclopedias
- 902.5 Nomenclature, terminology, notation, abbreviations
- History
- 903 General works
- 903.3.A-Z By region or country, A-Z
- Biography of crystallographers
- 903.5 Collective
- 903.6.A-Z Individual, A-Z
- 903.8 Directories
- 904 Early works through 1800  
General works, treatises, and textbooks
- 905 1801-1969
- 905.2 1970-
- 906 Pictorial works and atlases
- 906.3 Juvenile works
- 906.5 Addresses, essays, lectures
- 906.6 Special aspects of the subject as a whole
- 906.7.A-Z Special topics, A-Z
- 906.7.E37 Electron microscopy
- 906.7.E4 Electronic data processing
- 906.7.N83 Nuclear magnetic resonance spectroscopy  
Statistical methods see QD919
- Study and teaching. Research
- 907 General works
- 907.3 Problems, exercises, examinations
- 907.5 Laboratory manuals
- 907.7 Instruments and apparatus
- 908 Handbooks, tables, formulas, etc.  
Geometrical and mathematical crystallography
- 911 General works
- 912 Fundamental systems  
Including tetragonal, orthorhombic, monoclinic systems
- 913 Diagrams
- 915 Goniometric measurements
- 919 Statistical methods
- Crystal structure and growth  
Including crystal lattices, defects, and dislocations  
For lattice dynamics see QC176.8.L3  
Cf. QD548 Crystallization in solutions  
Cf. QD549.2.C64 Colloidal crystals
- 921 General works

- Crystallography
- Crystal structure and growth -- Continued
- 923 Liquid crystals
  - Including polymer liquid crystals
  - Cf. QC173.4.L55 Physics
  - Cf. TP1180.P666 Chemical technology
- 924 Photonic crystals
- 925 Polycrystals
- 926 Quasicrystals
  - Cf. QC173.4.Q36 Physics
- Physical properties of crystals
  - Cf. QC176+ Solids, solid state physics
- 931 General works
- 933 Mechanical properties
  - Including cohesion, elasticity, plasticity, cleavage, hardness
- 937 Thermal properties
- 939 Electric properties
  - Cf. QC595 Pyroelectricity
  - Cf. QC595.5 Piezoelectricity
- 940 Magnetic properties
- 941 Optical properties
  - Including isotropy, anisotropy, refractivity, reflectivity, crystal rotation
  - Cf. QC440+ Polarization
- 945 X-ray crystallography
- 947 Other physical properties (not A-Z)
- 951 Chemical crystallography
  - Including relationships between structure and bonding, isomorphism, polymorphism, pseudomorphism
- 999 Miscellany and curiosa

## Geology

For economic geology and mineral resources see TN1+

Cf. QB603.G46 Planetary geology

Cf. QH343.4 Geobiology

Cf. TA703+ Engineering geology

Cf. UG465+ Military geology

- 1 Periodicals, societies, congresses, serial publications
- 3 Collected works (nonserial)
- 4 Voyages and expeditions
- 5 Dictionaries and encyclopedias
- 6 Philosophy
- 7 Nomenclature, terminology, notation, abbreviations
- History
- 11 General works
- 13.A-Z By region or country, A-Z
- Biography
- 21 Collective
- 22.A-Z Individual, A-Z
  - e.g.
  - 22.D25 Dana, James Dwight
  - 22.L8 Lyell, Charles
  - 22.S77 Steno, Nicolaus
- 23 Directories
- 25 Early works through 1800
- General works, treatises, and advanced textbooks
- 26 1801-1969
- 26.2 1970-2000
- 26.3 2001-
- Elementary textbooks
- 28 General
- 28.2 Physical geology
- 28.3 Historical geology
- 29 Juvenile works
- 31 Popular works
- 33 Special aspects of the subject as a whole
- Special topics, A-Z
- 33.2.A-Z
- 33.2.A3 Aerial photography in geology
- 33.2.A7 Artificial satellites in geology
- 33.2.B6 Borings
- 33.2.C48 Chaotic behavior in systems
- 33.2.C5 Charts, diagrams, etc.
- Computer simulation see QE48.8
- Data processing see QE48.8
- 33.2.F73 Fractals
- 33.2.H54 High pressure geosciences
- 33.2.M3 Mathematical geology
- 33.2.P47 Periodicity
- 33.2.P7 Practical geology
- 33.2.R33 Radar in earth sciences
- 33.2.R4 Remote sensing
- 33.2.S6 Spectrum analysis in geology
- 33.2.S82 Statistical methods
- 33.2.S9 Subsurface geology
- 33.2.T45 Thermal analysis
- 33.2.T7 Translating services. Translating
- 33.2.W38 Wavelets

QE	GEOLOGY	QE
34	Geology as a profession. Vocational guidance	
35	Addresses, essays, lectures	
36	Geological maps Class here works on making, interpretation, and use of geological maps For the maps themselves see G3200+	
	Special fields	
37	Agricultural geology	
	Engineering geology see TA703+	
38	Environmental geology	
38.5	Forensic geology	
	Military geology see UG465+	
39	Submarine geology For submarine geology of a particular body of water, see QE350.2+ Cf. GC83+ Submarine topography Cf. QE511.7 Sea-floor spreading	
39.5.A-Z	Other, A-Z	
	Paleobiology see QE719.8	
39.5.P25	Paleoceanography	
	Paleoclimatology see QC884+	
	Paleoecology see QE720+	
	Paleogeography see QE501.4.P3	
39.5.P27	Paleohydrology	
39.5.P3	Paleolimnology	
	Paleomagnetism see QE501.4.P35	
	Paleopedology see QE473	
	Paleoseismology see QE539.2.P34	
39.5.U7	Urban geology For urban geology of a particular place see QE65+	
	Study and teaching. Research	
40	General works	
41	Outlines, syllabi	
42	Problems, exercises, examinations	
43	Models, diagrams, etc.	
44	Laboratory manuals	
45	Fieldwork	
	By region or country	
	United States	
47.A1	General works	
47.A2-Z	By region or state, A-Z Subarrange each state by Table Q7	
48.A-Z	Other regions or countries, A-Z Subarrange each country by Table Q7	
48.6	Awards	
48.8	Data processing Including computer simulation	
	Communication in geology	
48.85	General works	
48.86	Information services	
48.87	Computer network resources Including the Internet	
	Laboratories	
49.A1	General works	
49.A3-Z	By region or country, A-Z Subarrange each country by Table Q6	
49.5	Instruments and apparatus	
50	Collection and preservation	

- Museums. Exhibitions
- 51.A1 General works
- 51.A2-Z By region or country, A-Z  
Subarrange each country by Table Q5
- 52 Handbooks, tables, formulas, etc.
- 53 Miscellany and curiosa
- 55 Dealers' catalogs of specimens
- 61 Surveys (History, organization, etc.)
- Geographical divisions
- 65 Miscellaneous regions  
e.g. British empire
- 70 Arctic regions. Greenland
- America
- 70.5 General works
- North America
- 71 General works
- United States
- 72 Surveys (General)
- 73 Surveys, before 1861
- 74 Surveys, 1865-1879
- United States Geological Survey
- 75 General publications of the USGS
- 76 Works about the USGS
- 77 General works
- Special regions
- 78 Lake region and Saint Lawrence
- 78.3 North. Northeast. East. Appalachian Mountains
- 78.5 South. Southeast
- 78.7 Central. Mississippi Valley
- 79 Western states. Rocky Mountains
- 79.5 Southwest
- By state
- Class counties, physiographic regions, etc. in the local number
- Alabama
- 81 General works
- 82.A-Z Local, A-Z
- Alaska
- 83 General works
- 84.A-Z Local, A-Z
- Arizona
- 85 General works
- 86.A-Z Local, A-Z
- Arkansas
- 87 General works
- 88.A-Z Local, A-Z
- California
- 89 General works
- 90.A-Z Local, A-Z
- Colorado
- 91 General works
- 92.A-Z Local, A-Z
- Connecticut
- 93 General works
- 94.A-Z Local, A-Z
- Delaware
- 95 General works



## Geographical divisions

## America

## North America

## United States

## By state

- 96.A-Z Delaware -- Continued
- 97 Local, A-Z
- District of Columbia
- Florida
- 99 General works
- 100.A-Z Local, A-Z
- Georgia
- 101 General works
- 102.A-Z Local, A-Z
- Hawaii see QE349.H3
- Idaho
- 103 General works
- 104.A-Z Local, A-Z
- Illinois
- 105 General works
- 106.A-Z Local, A-Z
- Indiana
- 109 General works
- 110.A-Z Local, A-Z
- Iowa
- 111 General works
- 112.A-Z Local, A-Z
- Kansas
- 113 General works
- 114.A-Z Local, A-Z
- Kentucky
- 115 General works
- 116.A-Z Local, A-Z
- Louisiana
- 117 General works
- 118.A-Z Local, A-Z
- Maine
- 119 General works
- 120.A-Z Local, A-Z
- Maryland
- 121 General works
- 122.A-Z Local, A-Z
- Massachusetts
- 123 General works
- 124.A-Z Local, A-Z
- Michigan
- 125 General works
- 126.A-Z Local, A-Z
- Minnesota
- 127 General works
- 128.A-Z Local, A-Z
- Mississippi
- 129 General works
- 130.A-Z Local, A-Z
- Missouri
- 131 General works

## Geographical divisions

## America

## North America

## United States

## By state

## Missouri -- Continued

132.A-Z

Local, A-Z

## Montana

133

General works

134.A-Z

Local, A-Z

## Nebraska

135

General works

136.A-Z

Local, A-Z

## Nevada

137

General works

138.A-Z

Local, A-Z

## New Hampshire

139

General works

140.A-Z

Local, A-Z

## New Jersey

141

General works

142.A-Z

Local, A-Z

## New Mexico

143

General works

144.A-Z

Local, A-Z

## New York

145

General works

146.A-Z

Local, A-Z

## North Carolina

147

General works

148.A-Z

Local, A-Z

## North Dakota

149

General works

150.A-Z

Local, A-Z

## Ohio

151

General works

152.A-Z

Local, A-Z

## Oklahoma

153

General works

154.A-Z

Local, A-Z

## Oregon

155

General works

156.A-Z

Local, A-Z

## Pennsylvania

157

General works

158.A-Z

Local, A-Z

## Rhode Island

159

General works

160.A-Z

Local, A-Z

## South Carolina

161

General works

162.A-Z

Local, A-Z

## South Dakota

163

General works

164.A-Z

Local, A-Z

## Tennessee

## Geographical divisions

## America

## North America

## United States

## By state

## Tennessee -- Continued

165 General works

166.A-Z Local, A-Z

## Texas

167 General works

168.A-Z Local, A-Z

## Utah

169 General works

170.A-Z Local, A-Z

## Vermont

171 General works

172.A-Z Local, A-Z

## Virginia

173 General works

174.A-Z Local, A-Z

## Washington (State)

175 General works

176.A-Z Local, A-Z

## West Virginia

177 General works

178.A-Z Local, A-Z

## Wisconsin

179 General works

180.A-Z Local, A-Z

## Wyoming

181 General works

182.A-Z Local, A-Z

## Canada

185 General works

186 Alberta

187 British Columbia

188 Manitoba

189 New Brunswick

190 Nova Scotia

191 Ontario

192 Prince Edward Island

193 Québec (Province)

194 Saskatchewan

195 Yukon

196.A-Z Other northern territories, A-Z

(196.B3) Baffin Island

see QE196.N86

196.F7 Franklin

196.H8 Hudson Bay

(196.K4) Keewatin

see QE196.N86

## Labrador see QE199

196.N7 Northwest Territories

Including Mackenzie

196.N86 Nunavut

Including Baffin Island, Keewatin

## Geographical divisions

## America

## North America

## Canada

Other northern territories, A-Z -- Continued

Ungava see QE193

199 Newfoundland and Labrador

## Latin America

200 General works

## Mexico

201 General works

203.A-Z Local, A-Z

## Central America

210 General works

211 Belize

212 Costa Rica

213 Guatemala

214 Honduras

215 Nicaragua

216 Panama

217 El Salvador

## West Indies. Caribbean Area

220 General works

221 Bahamas

222 Cuba

223 Haiti

224 Jamaica

225 Puerto Rico

226.A-Z Other, A-Z

226.A5 Antigua and Barbuda

226.A53 Antilles, Lesser

226.B35 Barbados

British Virgin Islands see QE226.V53

226.C39 Cayman Islands

226.D7 Dominican Republic

Lesser Antilles see QE226.A53

226.M4 Martinique

226.S13 Saba

226.S175 Saint Martin

226.S56 Sint Eustatius

226.T8 Trinidad and Tobago

United States Virgin Islands see QE226.V55

## Virgin Islands

226.V5 General works

226.V53 British Virgin Islands

226.V55 United States Virgin Islands

229

## Bermuda

## South America

230 General works

231 Argentina

233 Bolivia

235 Brazil

237 Chile

239 Colombia

241 Ecuador

Guianas

## Geographical divisions

## America

## Latin America

## South America

## Guianas -- Continued

- 243 General works
- 243.2 Guyana (British Guiana)
- 243.3 Suriname (Dutch Guiana)
- 243.4 French Guiana
- 245 Paraguay
- 247 Peru
- 249 Uruguay
- 251 Venezuela

## South Atlantic islands

- 256 General works
- 257 Falkland Islands
- 258.A-Z Other South Atlantic islands, A-Z
  - e.g.
  - 258.S6 South Georgia Island

## 260 Europe

## Great Britain

- 261 General works
- England and Wales
  - 262.A1 General works
  - 262.A3-Z Local, A-Z
    - e.g.
    - 262.A6 Anglesey
    - 262.B75 Broads, The
    - 262.D36 Dean, Forest of
    - 262.E3 England
    - 262.G5 Gloucestershire
    - 262.L2 Lake District
    - 262.M2 Man, Isle of
    - 262.P8 Purbeck, Isle of
    - 262.W2 Wales
    - 262.W6 Wight, Isle of
- 264 Scotland
- 265 Ireland
- 266 Austria
- 266.2 Hungary
- 267 Czechoslovakia. Czech Republic
- 267.15 Slovakia
- 267.2 Liechtenstein
- 268 France
- 269 Germany
- 271 Greece
- 272 Italy
- 272.5 Malta
- 273 Netherlands
- 274 Belgium
- 275 Luxembourg
- 276 Soviet Union. Russia (Federation)
  - Cf. QE315 Central Asia
- 276.3 Finland
- 276.5 Poland
- Baltic States

## Geographical divisions

## Europe

## Baltic States -- Continued

276.7 General works

276.72 Estonia

276.74 Latvia

276.76 Lithuania

277 Scandinavia

278 Denmark

278.5 Faroe Islands

279 Iceland

281 Norway

282 Sweden

283 Spain

284 Portugal. Azores

285 Switzerland. Alps

## Balkan States

287 General works

287.2 Albania

287.4 Bulgaria

287.6 Romania

287.8 Yugoslavia

288.A-Z Other regions or countries of Europe, A-Z

288.A33 Aegean Islands (Greece and Turkey)

288.B35 Baltic Sea Region

288.B38 Belarus

288.C276 Carpathian Mountains

288.C46 Central Europe

288.D56 Dinaric Alps

288.K37 Karst (Slovenia and Italy : Region)

288.K75 Krkonoše (Czech Republic and Poland)

288.M629 Moldova

288.P36 Pannonia Region

288.P97 Pyrenees

288.S55 Silesia, Upper

288.U38 Ukraine

## Asia

289 General works

290 Afghanistan

## Arabian Peninsula

291.A1 General works

291.A3-Z By region or country, A-Z

291.A3 Aden

291.K9 Kuwait

291.M9 Muscat and Oman. Oman

Oman see QE291.M9

291.S28 Saudi Arabia

294 China

294.3 Taiwan

294.5 Mongolia

295 India

295.2 Burma. Myanmar

295.3 Sri Lanka

295.4 Pakistan

295.5 Bangladesh

296 Indochina

## Geographical divisions

## Asia -- Continued

- 298 Thailand
- 299 Malay Peninsula. Straits Settlements
- 299.5 Malaysia
- Indonesia. Dutch East Indies
- 301.A1 General works
- 301.A3-Z By region, island, etc., A-Z
  - e.g.
  - 301.A5 Amboina
  - 301.B7 Borneo
  - 301.C4 Celebese
  - 301.C45 Ceram
  - (301.D8) Dutch East Indies
    - see QE301.A1
  - 301.J4 Java
  - 301.K3 Kabaena Island
  - 301.M7 Moluccas
  - 301.S9 Sumatra
  - 301.S94 Sunda Islands
  - 301.T5 Timor
- 302 Philippines
- 304 Japan
- 305 Korea
  - Including South Korea
- 305.2 North Korea
- 307 Iran
- 307.2 Iraq
- 315 Soviet Central Asia. Central Asia. Siberia
  - Cf. QE276 Russia (Federation)
- 316 Turkey
- 317 Armenia
- 318 Israel. Palestine
- 318.2 Jordan
- 318.3 Lebanon
- 318.4 Syria
- 319.A-Z Other regions or countries, A-Z
  - 319.B46 Bengal Basin
  - 319.C9 Cyprus
  - 319.E18 East Asia
  - 319.G35 Gangetic Plain
  - 319.H5 Himalaya Mountains
  - 319.N4 Near East. Middle East
  - 319.O54 Oman Mountains (Oman and United Arab Emirates)
  - 319.S67 Southeast Asia
- 319.5 Arab countries (General)
- Africa
  - 320 General works
  - 321 Ethiopia
  - Former British possessions
    - 325 South Africa
    - 325.5 Central Africa (General)
    - 326 East Africa (General)
    - 327.A-Z Other, A-Z
      - 327.B3 Basutoland. Lesotho.
      - 327.B4 Bechuanaland. Botswana

## Geographical divisions

## Africa

## Former British possessions

## Other, A-Z -- Continued

- Cameroon see QE339.C35
- 327.E77 Eswatini
- 327.G6 Ghana. Gold Coast
- 327.K4 Kenya
- Lesotho see QE327.B3
- Malawi see QE327.N8
- 327.N5 Nigeria
- 327.N8 Nyasaland. Malawi
- 327.R55 Northern Rhodesia. Zambia
- 327.R6 Rhodesia, Southern. Zimbabwe
- 327.S2 Saint Helena
- 327.S5 Sierra Leone
- 327.S6 Sokotra (Yemen)
- 327.S77 Sudan
- (327.S8) Swaziland
  - see QE327.E77
- 327.T3 Tanzania. Tanganyika
- 327.U4 Uganda
- West Cameroon see QE339.C35
- Zambia see QE327.R55
- 327.Z3 Zanzibar
- Zimbabwe see QE327.R6
- 328 Egypt
- Former French possessions
- 329 Algeria
- 329.2 Tunisia
- 330 Madagascar
- 331.A-Z Other, A-Z
- 331.B45 Benin
- Burkina Faso see QE331.U64
- Cameroun see QE339.C35
- Central African Republic see QE331.U2
- 331.C53 Chad
- Côte d'Ivoire see QE331.I9
- Dahomey see QE331.B45
- 331.D5 Djibouti
- 331.F65 French Equatorial Africa
- French Somaliland see QE331.D5
- 331.F7 French West Africa
- 331.G3 Gabon
- 331.G8 Guinea
- 331.I9 Ivory Coast. Côte d'Ivoire
- 331.M27 Mali
- 331.M3 Mauritania
- Morocco see QE339.M8
- 331.N5 Niger
- 331.U2 Ubangi-Shari. Central African Republic
- 331.U64 Upper Volta. Burkina Faso
- 332 Former German possessions
  - Cf. QE339.C35 Kamerun
- 334 Former Italian possessions. Libya
- 335 Congo (Democratic Republic). Zaire



- Geographical divisions
- Africa -- Continued
- 335.5 Congo (Brazzaville)
- Former Portuguese possessions
- 337 General works
- 337.3 Mozambique
- 337.5 Angola
- 337.6 Cabo Verde
- 337.7 Guinea-Bissau
- 338 Spanish possessions
- 339.A-Z Other regions or countries, A-Z
- 339.B85 Burundi
- 339.C35 Cameroon
- 339.L5 Liberia
- 339.M8 Morocco
- 339.N34 Namibia
- 339.N66 Northeast Africa
- 339.N67 Northwest Africa
- 339.R85 Rwanda
- 339.S2 Sahara
- 339.S6 Somalia
- 339.S68 Southern Africa
- 339.S8 Sub-Saharan Africa
- 339.W46 West Africa
- Indian Ocean islands
- 339.5 General works
- 339.6.A-Z By region, island, etc., A-Z
- 339.6.M35 Maldives
- 339.6.R48 Réunion
- 339.6.S48 Seychelles
- Australasia
- 339.8 General works
- Australia
- 340 General works
- 341 New South Wales
- (342) New Zealand
- see QE348.2
- 343 North Australia. Northern Territory
- 344 Queensland
- 345 South Australia
- 346 Tasmania
- 347 Victoria
- 348 Western Australia
- 348.2 New Zealand
- 348.4 Papua New Guinea
- 349.A-Z Pacific islands, A-Z
- e.g.
- 349.F5 Fiji
- 349.H3 Hawaii
- 349.M35 Marshall Islands
- 349.N43 New Hebrides. Vanuatu
- 349.O4 Oceania
- 349.S64 Solomon Islands
- 349.T66 Tonga
- 350 Antarctica
- Atlantic Ocean

## Geographical divisions

## Atlantic Ocean -- Continued

- 350.2 General works
- 350.22.A-Z Local major divisions, A-Z
- 350.22.B34 Baltic Sea
- 350.22.B37 Barents Sea
- 350.22.B55 Black Sea
- 350.22.B65 Bothnian Sea
- 350.22.C37 Caribbean Sea
- 350.22.E52 English Channel
- 350.22.G53 Gibraltar, Straits of
- 350.22.G73 Greenland-Iceland Sea
- 350.22.L33 Labrador Sea
- 350.22.M32 Maine, Gulf of
- 350.22.M42 Mediterranean Sea
- 350.22.M48 Mexico, Gulf of
- 350.22.M5 Mid-Atlantic Bight
- 350.22.M52 Mid-Atlantic Ridge
- 350.22.N65 North Atlantic Ocean
- 350.22.N67 North Sea
- 350.22.N68 Norwegian Sea
- 350.22.R48 Reykjanes Ridge
- 350.22.S68 South Atlantic Ocean
- Straits of Gibraltar see QE350.22.G53

## Pacific Ocean

- 350.4 General works
- 350.42.A-Z Local major divisions, A-Z
- 350.42.A43 Alaska, Gulf of
- 350.42.B45 Bering Sea Region
- 350.42.C45 China Sea
- 350.42.E27 East China Sea
- 350.42.J34 Japan Sea
- 350.42.N65 North Pacific
- 350.42.O44 Okhotsk Sea
- 350.42.P45 Philippine Sea
- 350.42.S66 South China Sea
- 350.42.S68 South Pacific Ocean
- 350.42.T35 Taiwan Strait
- 350.42.T37 Tasman Sea

## Indian Ocean

- 350.5 General works
- 350.52.A-Z Local major divisions, A-Z
- 350.52.A73 Arabian Sea
- 350.52.R43 Red Sea

## Arctic Ocean

- 350.6 General works
- 350.62.A-Z Local major divisions, A-Z
- 350.62.C45 Chukchi Sea

## Mineralogy

- For crystallography see QD901+
- Cf. QB455.2 Astromineralogy
- 351 Periodicals, societies, congresses, serial publications
- 353 Collected works (nonserial)
- 355 Dictionaries and encyclopedias
- 357 Nomenclature, terminology, notation, abbreviations
- History

- Mineralogy
- History -- Continued
    - 359.A1 General works
    - 359.A2-Z By region or country, A-Z
  - Biography
    - 361.A2 Collective
    - 361.A3-Z Individual, A-Z
      - e.g.
      - 361.C5 Clarke
      - Dana, James Dwight see QE22.D25
      - 361.H2 Haidinger
  - Directories
    - 361.2 Early works through 1800
    - 362 General works, treatises, and textbooks
      - 363 1801-1969
      - 363.2 1970-
    - 363.8 Pictorial works and atlases
    - 364 Special aspects of the subject as a whole
    - 364.2.A-Z Special topics, A-Z
      - 364.2.E4 Electronic data processing
      - 364.2.F47 Fluid inclusions
      - 364.2.F5 Fluorescent minerals
      - 364.2.H4 Heavy minerals
      - 364.2.H54 High pressure
      - 364.2.M37 Metallogeny
      - 364.2.M4 Metasomatism
      - 364.2.P3 Paragenesis
      - 364.2.R3 Radioactive minerals
      - 364.2.S7 Rock-forming minerals see QE397
      - 364.2.S87 Statistical methods
      - 364.2.T45 Surfaces
      - 365 Thermodynamics
    - 365 Popular works
    - 365.2 Juvenile works
    - 366 Study and teaching. Research
    - Mineralogical laboratories
      - 366.15 General works
      - 366.16.A-Z By region or country, A-Z
        - Subarrange each country by Table Q6
    - 366.2 Collection and preservation
      - For mineral collecting in specific geographic regions see QE373+
    - 366.8 Handbooks, tables, formulas, etc.
    - Determinative mineralogy
      - For assaying see TN550+
      - Cf. QD87 Blowpipe analysis
      - General works, treatises, and textbooks
        - 367 1801-1969
        - 367.2 1970-
      - 368.9 Special aspects of the subject as a whole
    - 369.A-Z Special topics, A-Z
      - 369.C6 Colloidal determinations
      - 369.D5 Differential thermal analysis
      - 369.F4 Fedorovskii method
      - 369.I55 Immersion method
      - 369.M5 Microscopic determinations
      - 369.O6 Optical determinations

## Mineralogy

## Determinative mineralogy

Special topics, A-Z -- Continued

369.P49

Physical properties

369.S6

Specific gravity determinations

369.S65

Spectrum analysis

369.U4

Ultraviolet

369.X2

X-ray powder

371

## Mineralogical chemistry

## Descriptive mineralogy

General works, treatises, and textbooks

372

1801-1969

372.2

1970-

## Geographical divisions

## North America

373

General works

United States

375

General works

375.5.A-Z

By region or state, A-Z

Canada

376

General works

376.5.A-Z

By region, province, or territory, A-Z

Mexico

377

General works

377.5.A-Z

By region or state, A-Z

Central America

377.7.A1

General works

377.7.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

West Indies. Caribbean Area

378.A1

General works

378.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## South America

379.A1

General works

379.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Europe

381.A1

General works

381.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Asia

382.A1

General works

382.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Africa

383.A1

General works

383.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Australia

384

General works

384.2.A-Z

By region, state, or territory, A-Z

## New Zealand

384.5

General works

384.7.A-Z

By region or statistical area, A-Z

## Pacific islands

## Mineralogy

## Descriptive mineralogy

## Geographical divisions

## Pacific islands -- Continued

385.A1

General works

385.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Arctic regions

385.5.A1

General works

385.5.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Antarctica

385.6.A1

General works

385.6.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Museums. Exhibitions

386.A1

General works

386.A2-Z

By region or country, A-Z

Subarrange each country by Table Q5

387

Dealers' catalogs of specimens

388

## Classification

## Special groups of minerals

## Descriptive and determinative

389

General works

389.1

Native elements

389.2

Sulfides, selenides, tellurides, arsenides, antimonides

389.3

Sulfo salts (Sulfarsenites, sulfantimonites, sulfobismuthites)

389.4

Halides (Chlorides, bromides, iodides, fluorides)

389.5

Oxides

## Oxygen salts

389.6

General works

389.61

Carbonates

Including aragonite

## Silicates, titanates

389.62

General works

389.625

Clay minerals

389.63

Niobates, tantalates

389.64

Phosphates, arsenates, vanadates, antimonates, nitrates

389.65

Borates, uranates

389.66

Sulfates, chromates, tellurates

389.67

Tungstates, molybdates

389.7

Salts of organic acids: oxalates, mellates, etc.

## Hydrocarbon compounds

389.8

General works

Coal see TN805+

Petroleum see TN870.5+

## Ore minerals (General)

390

General works

390.2.A-Z

Special ore minerals, A-Z

390.2.A58

Antimony ores

390.2.B46

Beryllium ores

390.2.B67

Boron ores

390.2.C58

Cobalt ores

390.2.C6

Copper ores

390.2.G65

Gold ores

390.2.I76

Iron ores

## Mineralogy

## Special groups of minerals

## Ore minerals (General)

## Special ore minerals, A-Z -- Continued

390.2.L43	Lead ores
390.2.L57	Lithium ores
390.2.M35	Manganese ores
390.2.M47	Mercury ores
390.2.N53	Nickel ores
390.2.P56	Platinum ores
390.2.R37	Rare earth ores
390.2.S55	Silver ores
390.2.T42	Tellurium ores
390.2.T45	Thorium ores
390.2.T48	Tin ores
390.2.T5	Titanium ores
390.2.T85	Tungsten ores
390.2.U7	Uranium ores
390.2.V36	Vanadium ores
390.2.Z54	Zinc ores
390.5	Hydrothermal deposits. Hydrothermal alteration
391.A-Z	Description of special minerals, A-Z
391.A18	Acmite
391.A2	Actinolite
	Agate see QE391.Q2
391.A4	Allanite
391.A45	Alunite
391.A48	Amazonite
391.A5	Amber
391.A53	Amphiboles
391.A55	Analcime
391.A57	Andesine
391.A572	Andorite
391.A573	Anhydrite
391.A6	Apatite
391.A8	Augite
391.B2	Babingtonite
391.B35	Barite
391.B5	Benitoite
391.B55	Bentonite
391.B6	Beryl
391.B64	Biotite
391.B7	Bøggildite
391.B73	Boehmite
391.B75	Botryogen
391.B78	Brannerite
391.B82	Brucite
391.C2	Calcite
391.C25	Cassiterite
391.C3	Celadonite
391.C32	Celestite
391.C35	Chalcocite
391.C38	Chalybite
391.C392	Chamosite
391.C396	Charoite
391.C4	Chert

## Mineralogy

## Description of special minerals, A-Z -- Continued

391.C5	Chlorite
391.C6	Chondrodite
391.C65	Chromite
391.C657	Chrysoberyl
391.C67	Chrysotile
391.C8	Colemanite
391.C84	Cookeite
391.C9	Corundum
391.C94	Cuprodescloizite
391.D3	Datolite
391.D6	Dolomite
391.D8	Durangite
391.E43	Electrum
391.E5	Endlichite
391.E6	Enstatite
391.E8	Epidote
391.E9	Evansite
391.F3	Feldspar
391.F4	Ferberite
391.F45	Ferrierite
	Flint see QE471.15.F47
391.F6	Fluorspar
391.G3	Galena
391.G37	Garnet
391.G5	Glauconite
391.G55	Gmelinite
391.G6	Gold
391.G8	Gunnbjarnite
391.G93	Gypsum
391.H34	Hedenbergite
391.H38	Helvite
391.H4	Hematite
391.H5	Hercynite
391.H55	Heulandite
391.H8	Hortonolite
391.H84	Huebnerite
391.H86	Humite
	Iceland spar see QE391.C2
	Idocrase see QE391.V55
391.I4	Ilimaussite
391.I44	Ilmenite
391.I53	Indianite
391.I7	Iron
	Jade see QE394.J3
391.J25	Jarosite
	Jasper see QE391.Q2
391.K2	Kaolinite
391.L28	Lawsonite
391.L3	Lazurite
391.L4	Leucite
	Leucoxene see QE396
391.L5	Liebigite
391.L8	Ludwigite
391.M2	Magnesite

## Mineralogy

## Description of special minerals, A-Z -- Continued

391.M22	Magnetite
391.M25	Malachite
391.M3	Marcasite
391.M34	Meerschaum
391.M4	Melanosiderite
391.M45	Merumite
391.M6	Mica
391.M67	Moissanite
391.M7	Molybdenite
391.M75	Monazite
391.M8	Mordenite
391.M85	Muscovite
391.N27	Natrolite
391.N3	Naujakasite
	Nephrite see QE391.A2
391.O45	Olvine
	Opal see QE394.O7
	Palacheite see QE391.B75
391.P34	Palygorskite
391.P44	Pecoraite
391.P47	Perovskite
391.P48	Petalite
391.P5	Pickeringite
391.P55	Plagioclase
391.P56	Pollucite
391.P8	Pyrophyllite
391.P84	Pyroxene
391.P86	Pyroxmangite
391.P9	Pyrrhotite
391.Q2	Quartz
	Ramirite see QE391.C94
391.R5	Riebeckite
391.R7	Roscoelite
391.R88	Rutile
391.S25	Sapphirine
391.S28	Scapolite
391.S3	Scheelite
	Schungite see QE475.S39
	Sepiolite see QE391.M34
391.S47	Serpentine
391.S49	Siderite
391.S5	Sillimanite
391.S6	Smectite
391.S65	Sphalerite
391.S67	Sphene
391.S68	Spinel
391.S7	Spodumene
391.S73	Stannite
391.S75	Staurolite
391.S77	Stenonite
391.S8	Stichtite
391.T2	Talc
391.T3	Tephroite
391.T4	Tetradymite



## Mineralogy

Description of special minerals, A-Z -- Continued

- 391.T6 Topaz
- 391.T7 Tourmaline
- 391.T8 Trona
- 391.T85 Tugtupite
- 391.U65 Uraninite
- Uranothallite see QE391.L5
- 391.V35 Vanadinite
- 391.V5 Vermiculite
- 391.V55 Vesuvianite
- 391.V6 Villiumite
- 391.V64 Vivianite
- 391.V68 Volkonskoite
- 391.W3 Wagnerite
- 391.W6 Wolframite
- 391.W66 Wollastonite
- 391.Z5 Zeolites
- 391.Z7 Zircon
- 391.Z8 Zoisite

## Precious stones

- Cf. NK7650+ Art industries
- Cf. TN980+ Mining
- Cf. TS747+ Jewelry manufacture
- 392 General works, treatises, and textbooks
- 392.2 Juvenile works
- 392.5.A-Z By region or country, A-Z
- 393 Diamonds
- 394.A-Z Other precious stones, A-Z
- 394.A4 Amethysts
- 394.E5 Emeralds
- 394.J3 Jade
- 394.J46 Jet
- 394.L37 Lapis lazuli
- 394.O7 Opals
- 394.R8 Rubies
- 394.S3 Sapphires
- 394.T8 Turquoise
- 396 Leucosene
- 397 Rock-forming minerals
- Meteorites see QB754.8+
- 399 Tektites
- For fluorescent minerals see QE364.2.F5
- 399.2 Miscellany and curiosa

## Petrology

- Cf. TN950+ Building stones
- 420 Periodicals, societies, congresses, serial publications
- 421 Collected works (nonserial)
- 423 Dictionaries and encyclopedias
- 425 Nomenclature, terminology, notation, abbreviations
- 425.4 Classification
- History
- 427.A1 General works
- 427.A2-Z By region or country, A-Z
- 430 Early works through 1800
- General works, treatises, and textbooks

## Petrology

General works, treatises, and textbooks -- Continued

- 431 1801-1969
- 431.2 1970-
- 431.5 Special aspects of the subject as a whole
- 431.6.A-Z Special topics, A-Z
  - 431.6.A25 Acoustic properties
  - 431.6.E4 Electric properties
  - 431.6.M3 Magnetic properties
  - 431.6.M4 Mechanical properties
  - 431.6.O7 Ores
  - 431.6.P4 Petrogenesis
  - 431.6.P5 Physical properties
  - 431.6.P6 Porosity
  - 431.6.T45 Thermal properties
  - 431.6.W38 Water-rock interaction
- 432 Popular works
- 432.2 Juvenile works
- 432.5 Addresses, essays, lectures
- Study and teaching. Research
  - 432.7 General works
- 433 Laboratory manuals
- 433.5 Instruments and apparatus
- 433.6 Collection and preservation
  - For rock collecting in specific geographic regions see QE443+
- 433.7 Data processing
- 433.8 Handbooks, tables, formulas, etc.
- 434 Microscopic analysis of rocks. Thin sections
- 435 X-ray petrology
- 438 Chemical analysis of rocks
- 440 Petrofabric analysis
  - Including petrofabric diagrams
- Museums. Exhibitions
  - 442.A1 General works
  - 442.A2-Z By region or country, A-Z
    - Subarrange each country by Table Q5
- Geographical divisions
  - North America
    - 443 General works
    - United States
      - 444 General works
      - 445.A-Z By region or state, A-Z
    - Canada
      - 445.5 General works
    - 446.A-Z By region or province, A-Z
    - Greenland see QE456.G73
    - Mexico
      - 446.5 General works
    - 446.6.A-Z By region or state, A-Z
  - Central America (Table Q3)
    - 447
  - West Indies. Caribbean Area (Table Q3)
    - 448
  - Atlantic Ocean islands (Table Q3)
    - 448.5 Greenland see QE456.G73
  - South America (Table Q3)
    - 449
  - Europe (Table Q3)
    - 451 Greenland see QE456.G73

## Petrology

## Geographical divisions -- Continued

- 452 Asia (Table Q3)  
 453 Africa (Table Q3)  
 Indian Ocean islands  
 453.2 General works  
 453.3.A-Z By region, country, or island, A-Z  
     Offshore islands generally class with adjacent mainland  
 Australasia  
 453.45 General works  
 Australia  
 453.5 General works  
 454.A-Z By region, state, or territory, A-Z  
 New Zealand  
 454.5 General works  
 454.6.A-Z By region, territory, or island, A-Z  
 Pacific islands  
 455.A1 General works  
 455.A3-Z By region, country, or island, A-Z  
     Offshore islands generally class with adjacent mainland  
 Polar regions  
 455.8 General works  
 Arctic regions  
 456.A1 General works  
 456.A3-Z By region, country, or island, A-Z  
     Offshore islands generally class with adjacent mainland  
 456.G73 Greenland  
 Antarctica  
 456.5.A1 General works  
 456.5.A3-Z By region, country, or island, A-Z  
     Offshore islands generally class with adjacent mainland  
 456.8 Tropics  
 Igneous rocks, volcanic ash, tuff, etc.  
 461 General works  
 462.A-Z Special, A-Z  
 462.A34 Adakite  
 462.A35 Alaskite  
 462.A37 Albitite  
 462.A4 Alkalic igneous rocks  
 462.A5 Andesite  
 462.A55 Anorthosite  
 462.A63 Aplite  
 462.B3 Basalt  
 462.B65 Boninite  
 462.C36 Carbonatites  
 462.C5 Charnockite  
 462.D5 Diabase  
 462.D56 Diorite  
 462.F4 Fenite  
 462.G3 Gabbro  
 462.G7 Granite  
 462.G75 Granodiorite  
 462.G77 Greenstone  
 462.H67 Hornblendite  
 462.I35 Ignimbrite  
 462.K44 Keratophyre

## Petrology

Igneous rocks, volcanic ash, tuff, etc.

Special, A-Z -- Continued

462.K5 Kimberlite  
 462.K66 Komatiite  
 462.L35 Lamproite  
 462.L37 Latite  
 462.L48 Leucitite  
 462.M6 Monzonite  
 462.N4 Nepheline syenite  
 462.O28 Obsidian  
 462.O43 Olivinite  
 462.O6 Ophiolites  
 462.O73 Orangeite  
 462.P4 Pegmatites  
 462.P43 Pegmatoids  
 462.P45 Peridotite  
 462.P6 Porphyry  
 462.P7 Propylite  
 462.R4 Rhyolite  
 Serpentinite see QE475.S47  
 462.S65 Spilites  
 462.S95 Syenite  
 462.T73 Trachyte  
 462.T74 Trondhjemite  
 462.U4 Ultrabasic rocks  
 462.V64 Volcanite

## Sedimentary rocks. Sedimentology

For sedimentation see QE571+

471 General works  
 471.15.A-Z Special, A-Z  
 471.15.A68 Arenites  
 471.15.A7 Arkose  
 471.15.B32 Bauxite  
 471.15.B34 Beachrock  
 471.15.B4 Bentonite  
 471.15.B7 Breccia  
 471.15.C27 Calcretes  
 471.15.C3 Carbonate rocks  
 471.15.C4 Chert  
 471.15.C58 Concretions  
 471.15.C6 Conglomerate  
 471.15.D6 Dolomite  
 471.15.E8 Evaporites  
 471.15.F47 Flint  
 471.15.F5 Flysch  
 471.15.G4 Geodes  
 471.15.L5 Limestone  
 471.15.M44 Melanges  
 471.15.M83 Mudstone  
 471.15.O5 Oolite  
 Phosphate rock see QE471.15.P48  
 471.15.P48 Phosphorite. Phosphate rock  
 471.15.S2 Salt  
 471.15.S25 Sandstone  
 471.15.S5 Shale

## Petrology

## Sedimentary rocks. Sedimentology

## Special, A-Z -- Continued

471.15.S54  
471.15.T5  
471.15.T64  
471.15.T73  
471.15.T8

Siltstone

Tillite

Tonsteins

Travertine

Turbidites

Underclay see QE471.38

471.2

Sediments (Unconsolidated)

471.3

Clay

471.38

Underclay

472

Sedimentary structures

473

Paleopedology

## Metamorphic rocks. Metamorphism

475.A2

General works, treatises, and textbooks

475.A3-Z

Special, A-Z

475.A4

Amphibolite

475.E25

Eclogite

475.G55

Gneiss

475.G7

Granulite

475.J27

Jadeite

475.J3

Jasperoid

475.L57

Listwanite

475.M3

Marble

475.M45

Metabasite

475.M5

Migmatite

475.M95

Mylonite

475.P47

Phyllite

475.Q3

Quartzite

475.S3

Schist

475.S39

Schungite

475.S47

Serpentinite

475.S6

Soapstone

475.T33

Tactite

475.T43

Tectonite

495

Laterite

496

Saprolites

499

Miscellany and curiosa

## Dynamic and structural geology

## Physical and tectonic

500

Periodicals, societies, congresses, serial publications

500.5

History

501

General works, treatises, and textbooks

Including physical history of the earth

501.2

Popular works

501.25

Juvenile works

501.3

Special aspects of the subject as a whole

501.4.A-Z

Special topics, A-Z

Isotope geology see QE501.4.N9

501.4.M38

Mathematics

501.4.M6

Mohole project

501.4.N9

Nuclear geology. Isotope geology

501.4.P3

Paleogeography

501.4.P35

Paleomagnetism

Paleoweathering see QE570

- Dynamic and structural geology
  - Special topics, A-Z -- Continued
  - 501.4.P6 Polar wandering
  - 501.4.R45 Remote sensing
  - 501.4.U6 Upper mantle project
  - 505 Addresses, essays, lectures
  - 505.5 Study and teaching. Research
  - 506 Geological cosmogony
  - 507 Deluge, etc.
  - 508 Geological time. Age of the earth
    - Including age determination, radioactive dating
  - Interior of the earth. Internal structure of the earth
    - 509 General works
    - 509.2 Core
    - 509.3 Core-mantle boundary
    - 509.4 Mantle
    - 509.5 Temperature
  - 511 Earth's crust. Isostasy
    - Including continental crust, cratons, and glacial isostasy
    - Cf. QB331 Gravity determinations
  - 511.2 Island arcs
  - Plate tectonics
    - 511.4 General works
    - 511.42 Neotectonics
    - 511.44 Morphotectonics
    - 511.46 Subduction zones
    - 511.48 Suture zones
  - 511.5 Continental drift
    - Including Gondwana, Pangaea
  - 511.7 Sea-floor spreading
  - 512 Epeirogeny
  - 513 Salt tectonics
  - Geochemistry
    - Cf. QH343.7+ Biogeochemistry
  - 514 Periodicals, societies, congresses, serial publications
  - Biography
    - 514.6 Collective
    - 514.62.A-Z Individual, A-Z
  - 515 General works, treatises, and textbooks
  - Geographical divisions
    - North America
      - 515.15 General works
      - United States
        - 515.16 General works
        - 515.17.A-Z By region or state, A-Z
      - 515.18-.185 Canada
        - 515.18 General works
        - 515.185.A-Z By region or province, A-Z
      - Greenland see QE515.46.G73
      - Mexico
        - 515.19 General works
        - 515.195.A-Z By region or state, A-Z
      - 515.2 Central America (Table Q3)
      - 515.23 West Indies. Caribbean Area (Table Q3)
      - 515.25 South America (Table Q3)
      - 515.27 Atlantic Ocean islands (Table Q3)

- Dynamic and structural geology
- Geochemistry
  - Geographical divisions
    - Atlantic Ocean islands
      - By region, country, or island -- Continued
      - Greenland see QE515.46.G73
    - 515.28 Europe (Table Q3)
      - Greenland see QE515.46.G73
    - 515.3 Asia (Table Q3)
    - 515.33 Africa (Table Q3)
    - 515.35 Indian Ocean islands (Table Q3)
    - Australasia
      - 515.37 General works
      - Australia
        - 515.38 General works
        - 515.39.A-Z By state, territory, or region, A-Z
      - New Zealand
        - 515.4 General works
        - 515.42.A-Z By region, territory, or island, A-Z
    - Pacific islands (Table Q3)
    - 515.43 Pacific islands (Table Q3)
    - Polar regions
      - 515.45 General works
      - 515.46 Arctic regions (Table Q3)
      - 515.46.G73 Greenland
      - 515.47 Antarctica (Table Q3)
    - 515.49 Tropics
    - 515.5.A-Z Special topics, A-Z
    - 515.5.D37 Data processing
    - 515.5.G43 Geochemical modeling
    - 515.5.G45 Geochemical self-organization
    - 515.5.K55 Kinetics
    - 515.5.R45 Remote sensing
    - 515.5.T46 Thermodynamics
  - 516.A-Z Special elements and groups of elements, A-Z (Table Q1 modified)
    - 516.A35 Alkali metals
    - 516.C37 Carbon
      - Including carbon sequestration by natural causes
      - Cf. TD885.5.C3 Carbon sequestration technologies
  - 516.H3 Halogens
  - 516.M65 Metals
  - 516.R15 Radioactive substances
  - 516.R2 Rare earth metals
  - 516.R23 Rare gases
  - 516.T85 Trace elements
  - 516.3 Analytical geochemistry
  - 516.4 Environmental geochemistry
  - Nuclear geochemistry see QE501.4.N9
  - 516.5 Organic geochemistry
- Dynamic geology
  - 517 Periodicals, societies, congresses, serial publications
  - 517.5 General works, treatises, and textbooks
- Volcanoes and earthquakes
  - 521 General works, treatises, and textbooks
  - 521.2 Popular works
  - 521.3 Juvenile works

## Dynamic and structural geology

## Volcanoes and earthquakes -- Continued

## Volcanoes. Volcanism

Including supervolcanoes

521.5 Periodicals, societies, congresses, serial publications

522 General works, treatises, and textbooks

523.A-Z Individual volcanoes, A-Z

Including individually named groups

e.g.

523.C47 Chichon (Mexico)

523.C7 Colima (Mexico : Volcano)

523.E8 Etna, Mount (Italy)

523.E95 Eyjafjallajökull Volcano (Iceland)

523.F68 Fournaise, Piton de la (Réunion)

523.F8 Fuji, Mount (Japan)

523.K3 Katmai, Mount (Alaska)

523.K5 Kilauea Volcano (Hawaii)

523.K73 Krakatoa (Indonesia)

523.M47 Merapi Volcano (Java, Indonesia)

523.O57 Ontake Mountain (Japan)

523.P3 Pelée, Mount (Martinique)

523.P56 Pinatubo, Mount (Philippines)

Piton de la Fournaise (Réunion) see QE523.F68

523.P8 Popocatepetl (Mexico)

523.S23 Saint Helens, Mount (Wash.)

523.S27 Santorini Volcano (Greece)

523.S68 Soufrière (Guadeloupe)

523.V5 Vesuvius, Mount (Italy)

## Western Hemisphere. America

Including Hawaii

524 General works

524.2.A-Z By region or country, A-Z

For individual volcanoes see QE523.A+

## Eastern Hemisphere. Europe, Africa

526 General works

526.2.A-Z By region or country, A-Z

For individual volcanoes see QE523.A+

## Eastern Hemisphere. Asia, Australasia

527 General works

527.2.A-Z By region or country, A-Z

For individual volcanoes see QE523.A+

527.3 Pacific Area (General)

527.4 Antarctica

527.5 Prediction of volcanic activity

Including volcano monitoring

527.55 Remote sensing

527.56 Tephrochronology

527.6 Volcanic hazard analysis. Safety measures

For hazard analysis or safety measures in specific geographic regions see QE523+

527.7 Volcanic plumes

527.73 Lava flows

527.75 Volcanic gases and vapors

Including volcanic gas reservoirs

528 Geysers, hot springs, etc.

529 Miscellany and curiosa



## Dynamic and structural geology

## Volcanoes and earthquakes -- Continued

## Earthquakes. Seismology

Cf. TC181 Earthquakes and hydraulic structures

Cf. TC542.5 Earthquakes and dams

Cf. TF539 Damage to railroads

Cf. TH1095 Earthquakes and building

- 531 Periodicals, societies, congresses, serial publications
- 532.A-Z Observations. By name of issuing observatory, A-Z  
Including serial collections issued by individual observatories
- 533 Early works through 1800  
General works, treatises, and textbooks
- 534 1801-1969
- 534.2 1970-2000
- 534.3 2001-
- Special
- 535 Western Hemisphere. America  
General works
- 535.2.A-Z By region or country, A-Z
- 536 Eastern Hemisphere. Europe, Africa  
General works
- 536.2.A-Z By region or country, A-Z
- 537 Eastern Hemisphere. Asia, Australasia  
General works
- 537.2.A-Z By region or country, A-Z
- 537.5 Pacific Area (General)
- 538 Antarctica
- 538.5 Seismic waves. Elastic waves
- 538.8 Earthquake prediction
- 539 Special aspects of the subject as a whole
- 539.2.A-Z Special topics, A-Z
- 539.2.A4 Aftershocks
- 539.2.D36 Data processing
- 539.2.E42 Elastic rebound theory
- 539.2.I46 Hazard analysis see QE539.2.S34
- 539.2.I5 Induced seismicity
- 539.2.I5 Intensity
- 539.2.M37 Mathematics
- 539.2.M5 Microseisms
- 539.2.P34 Paleoseismology
- 539.2.P4 Periodicity
- 539.2.R45 Remote sensing
- 539.2.S34 Safety measures. Hazard analysis  
For safety measures or hazard analysis in specific geographic regions, see QE535+
- 539.2.S37 Seismic event location
- 539.2.S4 Seismic models
- 539.2.S43 Seismic traveltime inversion
- 539.2.S73 Statistical methods
- Observatories. Seismic networks
- 540.A2 General works
- 540.A5-Z By region or country, A-Z  
*Under each country:*
- .x *General works*
- .x2A-.x2Z *Individual observatories. By name, A-Z*
- 541 Instruments. Seismometry  
Including tables, calculations, seismograms, etc.

- Dynamic and structural geology
  - Volcanoes and earthquakes
    - Earthquakes. Seismology -- Continued
      - (545) Volcanic gases and vapors
        - see QE527.75
    - Coral islands and reefs. Atolls
      - Cf. GB461+ Geomorphology
    - 565 General works
      - 565.5.A-Z By region or country, A-Z
        - For individual coral reefs and islands see QE566.A+
      - 566.A-Z Individual, A-Z
        - e.g.
          - 566.F35 Fangataufa Atoll
          - 566.G7 Great Barrier Reef (Qld.)
          - 566.M87 Mururoa Atoll
    - 570 Weathering
      - Including paleoweathering
    - Sedimentation
      - Including erosion and deposition
        - For sedimentary rocks and sedimentology see QE471+
      - 571 General works
      - 573 Cryopedology
      - Glacial erosion
        - Cf. GB581+ Glacial landforms
        - Cf. QE697+ Pleistocene
      - 575 Periodicals, societies, congresses, serial publications
      - 576 General works, treatises, and textbooks
      - 578 Moraines, eskers, kames
      - 579 Drift. Loess
      - 581 Aqueous erosion
        - Cf. S622+ Agriculture
      - 587 Evorsion
      - 597 Aerial erosion
    - Earth movements. Mass movements
      - For descriptive works, disasters, etc., see DA+
      - 598 Periodicals, societies, congresses, serial publications
        - 598.2 General works, treatises, and textbooks
        - 598.3 Juvenile works
        - 598.5.A-Z By region or country, A-Z
      - Landslides. Rockslides
        - Including mudflows and mudslides
          - 599.A1 Periodicals, societies, congresses, serial publications
          - 599.A2 General works, treatises, and textbooks
          - 599.A5-Z By region or country, A-Z
          - 599.2 Landslide hazard analysis
            - For hazard analysis in specific geographic regions see QE599.A5+
      - Subsidences
        - 600 Periodicals, societies, congresses, serial publications
          - 600.2 General works, treatises, and textbooks
          - 600.3.A-Z By region or country, A-Z
    - Structural geology
      - 601 General works, treatises, and textbooks
        - 601.2 Special aspects of the subject as a whole
        - 601.3.A-Z Special topics, A-Z
          - 601.3.D37 Data processing
          - 601.3.M38 Mathematics

- Dynamic and structural geology
  - Structural geology
    - Special aspects, A-Z -- Continued
      - 601.3.S83 Stereographic projection
      - 601.8 Problems, exercises, examinations
      - 602 Stratification
      - 604 Deformation
      - 605 Joints and cleavages
      - Faults and folds
        - 606 General works, treatises, and textbooks
        - 606.3.A-Z Special topics, A-Z
          - 606.3.A58 Anticlines
          - 606.3.S96 Synclines
        - 606.5.A-Z By region or country, A-Z
      - Geosynclines
        - 607 General works, treatises, and textbooks
        - 607.5.A-Z By region or country, A-Z
      - Metamorphism
        - (608) see QE475
      - Veins, dikes, necks, bosses, laccoliths, and other intrusive bodies
        - Cf. TN263 Ore deposits
    - 611 General works, treatises, and textbooks
    - 611.5.A-Z By region or country, A-Z
    - Impact craters
      - 612 General works, treatises, and textbooks
      - 612.5.A-Z By region or country, A-Z
    - Cryptoexplosion structures
      - 613 General works, treatises, and textbooks
      - 613.5.A-Z By region or country, A-Z
    - Basins. Sedimentary basins
      - 615 General works, treatises, and textbooks
      - 615.5.A-Z By region or country, A-Z
    - Mountain building. Orogeny
      - 621 General works
      - 621.5.A-Z By region or country, A-Z
    - Effects of plants, animals, and man in geology
      - 625 Cf. QR103 Geomicrobiology
    - Geographical divisions
      - North America
        - 626 General works
        - United States
          - 627 General works
          - 627.5.A-Z By region or state, A-Z
        - Canada
          - 628 General works
          - 628.5.A-Z By region, province, or territory, A-Z
        - Mexico
          - 629 General works
          - 629.5.A-Z By region or state, A-Z
      - Central America
        - 630.A1 General works
        - 630.A3-Z By region, country, or island, A-Z
          - Offshore islands generally class with adjacent mainland
      - West Indies. Caribbean Area
        - 631.A1 General works

## Dynamic and structural geology

## Geographical divisions

## North America

West Indies. Caribbean Area -- Continued

631.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## South America

632.A1

General works

632.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Europe

633.A1

General works

633.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Asia

634.A1

General works

634.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Africa

635.A1

General works

635.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Australia

636

General works

636.5.A-Z

By region, state, or territory, A-Z

## New Zealand

637

General works

637.5.A-Z

By region or statistical area, A-Z

## Pacific islands

638.A1

General works

638.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Arctic regions

639.A1

General works

639.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Antarctica

639.5.A1

General works

639.5.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Stratigraphy

Prefer stratigraphic to geographical classification

For historical geology see QE28.3

640

Periodicals, societies, congresses, serial publications

645

Nomenclature, terminology, notation, abbreviations

Class here general works as well as works on the nomenclature of particular regions, countries, etc.

651

General works, treatises, and textbooks

651.5

Cyclostratigraphy

652

Data processing

Stratigraphic correlation

652.5

General works

652.55.A-Z

By region or country, A-Z

## Precambrian

653

General works

653.3

Archaeon

## Stratigraphy

## Precambrian -- Continued

653.5

Proterozoic

## Paleozoic

654

General works

(655)

Algonkian. Huronian. Precambrian in general

see QE653

656

Cambrian

660

Ordovician

Silurian

661

General works

(662)

Lower (Ordovician)

see QE660

(663)

Upper (Silurian)

see QE661

665

Devonian

Carboniferous

671

General works

672

Mississippian

673

Pennsylvanian

Cf. TN799.9+ Coal

673.5

Permo-Carboniferous

674

Permian

## Mesozoic

675

General works

Triassic

676

General works

677

Lower

678

Middle

679

Upper

Jurassic

681

General works

682

Lower

683

Middle

684

Upper

Cretaceous

685

General works

686

Lower

687

Middle

688

Upper

689

Cretaceous-Tertiary boundary

## Cenozoic

690

General works

Tertiary

691

General works

Paleogene

691.5

General works

692

Paleocene

692.2

Eocene

692.8

Eocene-Oligocene boundary

693

Oligocene

Neogene

693.5

General works

694

Miocene

695

Pliocene

695.5

Pliocene-Pleistocene boundary

- Stratigraphy
  - Cenozoic -- Continued
    - Quaternary
      - 696 General works
      - Pleistocene. Glacial epoch
        - 697 General works
        - 698 Cause of the glacial epoch
        - 699 Holocene, Recent
      - Geological climate see QE698
      - Paleoclimatology see QC884+
- Paleontology
  - 701 Periodicals, societies, congresses, serial publications
  - 702 Collected works (nonserial)
  - 703 Dictionaries and encyclopedias
  - Communication of information
    - 704 General works
    - 704.2 Information services
    - 704.3 Computer network resources
      - Including the Internet
  - History
    - 705.A1 General works
    - 705.A2-Z By region or country, A-Z
  - Biography
    - 707.A2 Collective
      - Including directories
    - 707.A3-Z Individual, A-Z
      - e.g.
        - 707.T4 Teilhard de Chardin, Pierre
        - 707.Z8 Zittel, K.A.
  - Early works
    - 709 Through 1790
    - 710 1791-1830
  - General works, treatises, and textbooks
    - Including stratigraphic paleontology
      - 711 1831-1969
      - 711.2 1970-2000
      - 711.3 2001-
  - 713 Comprehensive systematic works
    - Including both zoological and botanical works
  - 714 Pictorial works and atlases
  - 714.2 Paleoart
    - Including paleontological illustration
  - 714.3 Popular works
  - 714.5 Juvenile works
  - 714.7 Paleontology as a profession. Vocational guidance
  - 715 Study and teaching
  - Museums. Exhibitions
    - Class catalogs of special subjects with the subject, e.g. British Museum catalog of fossil fishes in QE851
  - 716.A1 General works
  - 716.A2-Z By region or country, A-Z
    - Subarrange each country by Table Q5

QE	GEOLOGY	QE
	Paleontology -- Continued	
718	Collection and preservation	
	Class here general works on collection and preservation of fossils	
	For works on collection by stratigraphic division see QE724+	
	For works on collection by geographic division see QE743+	
	For works on collection and preservation of individual fossils see QE767	
	Micropaleontology	
	For fossil biomolecules see QP517.F66	
719	General works	
719.5	Prokaryotes. Bacteria	
719.6	Protista	
	Cf. QE771+ Protozoa	
	Cf. QE955 Algae	
719.8	Paleobiology	
	Cf. QE721.2.E85 Evolutionary paleobiology	
	Paleoecology	
720	General works	
720.2.A-Z	By region or country, A-Z	
720.5	Ichnology. Trace fossils	
721	Special aspects of the subject as a whole	
721.2.A-Z	Special topics, A-Z	
721.2.D37	Data processing	
721.2.E85	Evolutionary paleobiology	
721.2.E87	Evolutionary paleoecology	
721.2.E97	Extinction	
721.2.F6	Fossilization. Taphonomy	
721.2.M63	Models and modelmaking	
721.2.P24	Paleobiogeography	
721.2.P26	Paleontological excavations	
	For geographical divisions see QE743+	
721.2.P3	Paleotemperatures	
721.2.S7	Statistical methods	
	Taphonomy see QE721.2.F6	
721.2.V3	Variation	
723	Addresses, essays, lectures	
	Stratigraphic divisions (General and zoological)	
	Corresponding classes for stratigraphic geology in QE653+	
	Precambrian	
724	General works	
724.5	Proterozoic	
	Paleozoic	
725	General works	
726	Cambrian	
726.2	Ordovician	
727	Silurian	
728	Devonian	
	Carboniferous	
729	General works	
729.2	Mississippian	
729.3	Pennsylvanian	
730	Permian	
	Mesozoic	
731	General works	
732	Triassic	
733	Jurassic	
734	Cretaceous	

## Paleontology

## Stratigraphic divisions (General and zoological)

## Mesozoic -- Continued

734.5 Cretaceous-Tertiary boundary

## Cenozoic

735 General works

## Tertiary

736 General works

## Paleogene

736.5 General works

736.8 Paleocene

737 Eocene

738 Oligocene

## Neogene

738.5 General works

739 Miocene

740 Pliocene

## Quaternary

741 General works

741.2 Pleistocene

741.3 Holocene, Recent

742 Amber fauna and flora

## Geographical divisions (General and zoological)

Prefer the stratigraphic divisions above to geographical divisions

743 General works

743.5 Ocean bottom

744 Arctic regions

## North America

745 General works

## United States

746 General works

747.A-Z By region or state, A-Z

## Canada

748.A1 General works

748.A3-Z By region or province, A-Z

Offshore islands generally class with adjacent mainland

## Mexico

749.A1 General works

749.A3-Z By region or state, A-Z

Offshore islands generally class with adjacent mainland

## West Indies and Bermuda

750.A1 General works

750.A3-Z By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Central America

751.A1 General works

751.A3-Z By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## South America

752.A1 General works

752.A3-Z By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Europe

753 General works

754 Great Britain

755.A-Z Other regions or countries, A-Z



## Paleontology

## Geographical divisions (General and zoological) -- Continued

## Asia

756.A1

General works

756.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Africa

757.A1

General works

757.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Australia

758.A1

General works

758.A3-Z

By region, state, or territory, A-Z

Offshore islands generally class with adjacent mainland

758.5

## New Zealand

759.A-Z

## Pacific islands, A-Z

## Arctic regions see QE744

760

## Antarctica

## Paleozoology

760.8

Periodicals, societies, congresses, serial publications

761

General works, treatises, and textbooks

763

Popular works

765

Juvenile works

766

Marine animals

767

Plankton

For stratigraphic divisions see QE724+

For geographical divisions see QE743+

## Invertebrates

770

General works, treatises, and textbooks

## Protozoa

771

General works, treatises, and textbooks

772

Foraminifera

773

Radiolaria

774.A-Z

Other Protozoa, A-Z

(774.D5)

Dinoflagellates

see QE955

774.F5

Flagellata. Mastigophora

774.P6

Polycystida

774.T5

Thecamoebae. Testacea

774.T55

Tintinnida

775

Porifera (Sponges)

## Cnidaria

777

General works, treatises, and textbooks

778

Anthozoa (Corals)

779

Hydrozoa. Stomatoporoidea

For Graptolithina see QE840.5

780

Scyphozoa

Including Scyphomedusae and Conulata

780.5

## Ctenophora

## Echinodermata

781

General works, treatises, and textbooks

782

Crinozoa. Crinoidea

783.A-Z

Other divisions, A-Z

783.A7

Asteroidea (True starfish)

783.B6

Blastoidea

783.C9

Cystoidea

## Paleozoology

## Invertebrates

## Echinodermata

## Other divisions, A-Z -- Continued

- 783.D5 Diploporita
- 783.E2 Echinoidea
- 783.E3 Edrioasteroidea
- 783.H7 Holothurioidea
- 783.O6 Ophiuroidea
- 783.P3 Paracrinoidea
- 783.S8 Stelleroidea
- 783.S89 Stylophora
- 791 Worms and other vermiform invertebrates

## Brachiopoda

## General works, treatises, and textbooks

## Systematic divisions, A-Z

- 796
- 797.A-Z
- 797.A65 Articulata
- 797.A69 Athyrididae
- 797.A7 Atrypidae
- 797.C95 Cyrtinidae
- 797.D3 Delthyrididae
- 797.D5 Dielasmatidae
- 797.D6 Discinidae
- 797.I5 Inarticulata
- 797.K5 Kingenidae
- 797.L7 Lingulidae
- 797.O2 Obolidae
- 797.O7 Orthida
- 797.O75 Orthidae
- 797.P3 Paterinidae
- 797.P39 Pentamerida
- 797.P4 Pentameridae
- 797.P5 Playtstrophinae
- 797.P9 Productidae
- 797.R5 Rhynchonellida
- 797.S4 Septirhynchiidae
- 797.S7 Spiriferidae
- 797.S8 Stringocephalidae
- 797.S89 Strophomenida
- 797.S9 Strophomenidae
- 797.T29 Terebratulida
- (797.T3) Terebratulidae
  - see QE797.T29
- 797.T5 Thecidellinidae
- 797.T8 Trimerellidae
- 797.Z4 Zeilleriidae

## Bryozoa. Polyzoa

## General works, treatises, and textbooks

## Systematic divisions, A-Z

- 798
- 799.A-Z
- 799.C5 Cheilostomata
- 799.C7 Cryptostomata
- 799.C8 Ctenostomata
- 799.C9 Cyclostomata
- 799.E95 Expletocystida
- 799.G95 Gymnolaemata
- 799.M6 Monticuliporidae

## Paleozoology

## Invertebrates

## Bryozoa. Polyzoa

## Systematic divisions, A-Z -- Continued

799.S74

Stenolaemata

799.T7

Trepstomata

## Mollusca

801

General works, treatises, and textbooks

805

Monoplacophora. Amphineura. Aplacophora. Polyplacophora

## Cephalopoda

806

General works, treatises, and textbooks

807.A-Z

Systematic divisions, A-Z

807.A25

Actinoceratidae

807.A5

Ammonoidea

807.B4

Belemnitida

807.C65

Clymeniida

807.C7

Coleoidea

807.D5

Dibranchiata

Ecdyceras see QE807.H4

807.E4

Ellesmeroceratidae

807.E5

Endoceratoidea

807.G56

Goniatitidae

807.H4

Hebetoceratidae

807.L3

Lamellorthoceratidae

807.L7

Liparoceratidae

807.L98

Lytoceratidae

807.N4

Nautiloidea

807.O8

Orthoceratidae

807.P69

Placenticeratidae

807.S3

Salterellidae

807.S4

Sepiida

807.W8

Wutinoceratidae

## Gastropoda

808

General works, treatises, and textbooks

809.A-Z

Systematic divisions, A-Z

809.A18

Actaeonellidae

809.A2

Actaeonidae

809.A72

Archaeogastropoda

809.B8

Buccinidae

809.C4

Ceratopeidae

809.C48

Columbellidae

809.C52

Conidae

809.C9

Cypraeidae

809.E55

Eotomariidae

809.E64

Epitoniidae

809.E9

Euomphalidae

809.F3

Fasciolariidae

809.L57

Littorinimorpha

809.M25

Macluritidae

809.M4

Mesogastropoda

809.M8

Murchisoniata

809.M85

Muricidae

809.N3

Nassariidae

809.N32

Naticidae

809.N45

Neritidae

809.O44

Olividae

## Paleozoology

## Invertebrates

## Mollusca

## Gastropoda

## Systematic divisions, A-Z -- Continued

- 809.O6 Opisthobranchia  
 809.P5 Platyceratidae  
 809.P7 Prosobranchia  
 809.P8 Pteropoda  
 809.P9 Pulmonata  
 809.P95 Pyramidellidae  
 809.T5 Thaididae  
 809.T88 Turridae  
 809.T9 Turritellidae  
 809.V2 Valencienniidae  
 809.V3 Vasidae  
 809.V7 Volutidae  
 809.Z9 Zonitidae
- Bivalvia. Lamellibranchia. Pelecypoda  
 General works, treatises, and textbooks  
 Systematic divisions, A-Z
- 811 Arcidae  
 812.A-Z Astartidae  
 812.A8 see QE812.V45  
 (812.A84)
- 812.B83 Buchiidae  
 812.C3 Cardiidae  
 812.C35 Carditidae  
 812.C5 Chondrodontidae  
 812.C6 Conocardiidae  
 Cypricardiacea see QE812.T34
- 812.D5 Diceratidae  
 812.D7 Dreissenidae  
 812.G7 Grammysiidae  
 812.G78 Gryphaeidae  
 812.H34 Halobiidae  
 812.H57 Hippuritidae  
 812.H573 Hippuritoida (Rudists)  
 812.I5 Inoceramidae  
 Leptonacea see QE812.V45
- 812.M2 Mactridae  
 812.M48 Megalodontacea  
 812.M6 Monotidae  
 812.M9 Myalinidae  
 812.M94 Mytilidae  
 812.N6 Noetiidae  
 812.N8 Nucloidae  
 812.O8 Ostreidae  
 812.O87 Ostreoida  
 812.P38 Pectinacea  
 812.P4 Pectinidae  
 812.P48 Pholadidae  
 812.P5 Pholadomyoida  
 812.P65 Praeheterodonta  
 812.P7 Pterinidae  
 812.R33 Radiolitidae

- Paleozoology  
 Invertebrates  
 Mollusca  
 Bivalvia. Lamellibranchia. Pelecypoda  
 Systematic divisions, A-Z -- Continued  
 (812.R8) Rudista  
     see QE812.H573  
 812.S6 Solemyidae  
 812.S62 Solemyoidea  
 812.T3 Tancrediidae  
 812.T34 Teleodesmacea  
 812.T37 Tellinidae  
 812.T4 Teredinidae  
 (812.T7) Trigoniidae  
     see QE812.T74  
 812.T74 Trigonioidea  
 812.U6 Unionidae  
 812.V4 Veneridae  
 812.V45 Veneroidea  
 813 Scaphopoda  
 814 Rostroconchia  
 Arthropoda  
 815 General works, treatises, and textbooks  
 Crustacea. Mandibulata  
 816 General works, treatises, and textbooks  
 817.A-Z Systematic divisions, A-Z  
 817.A6 Amphipoda  
 817.A7 Arthrostraca  
 817.B7 Branchiopoda  
 817.C5 Cirripedia  
 817.C6 Conchostraca  
 817.C7 Copepoda  
 817.D3 Decapoda  
 817.E5 Entomostraca  
 817.I8 Isopoda  
 817.L5 Leptostraca  
 817.M3 Malacostraca  
 817.O8 Ostracoda  
 Phyllopoda see QE817.B7  
 817.S3 Schizopoda  
 817.S8 Stomatopoda  
 Protarthropoda. Trilobitomorpha  
 821 General works, treatises, and textbooks  
 823.A-Z Systematic divisions, A-Z  
 823.A35 Agnostida  
 823.C6 Corynexochida  
 823.M3 Marrellidae  
 823.P4 Pentastomida  
 823.P5 Phacopida  
 823.P53 Phillipsiidae  
 823.P75 Proetida  
 823.P76 Proetidae  
 823.P79 Ptychopariida  
 823.R4 Redlichiida  
 823.T2 Tardigrada  
 Chelicerata. Merostomata. Arachnida

## Paleozoology

## Invertebrates

## Arthropoda

## Chelicerata. Merostomata. Arachnida -- Continued

- 825 General works, treatises, and textbooks
- 826.A-Z Systematic divisions, A-Z
- 826.A2 Acarina (Acari)
- 826.A6 Araneida (Araneae)
- 826.C5 Chernetidae (Pseudoscorpiones)
- 826.E8 Eurypterida
- 826.O63 Opiliones
- 826.P3 Pedipalpi
- (826.P5) Phalangida
  - see QE826.O63
- 826.S4 Scorpionida
- 826.S6 Solifugae
- 826.X5 Xiphosurida

## Myriapoda

- 828 General works, treatises, and textbooks
- 829.A-Z Systematic divisions, A-Z
- 829.C5 Chilopoda
- 829.D5 Diplopoda

## Hexapoda. Insects

- 831 General works, treatises, and textbooks
- 832.A-Z Systematic divisions, A-Z
- 832.A53 Anisoptera (Dragonflies)
- 832.A55 Anoplura
- 832.B55 Blattaria (Cockroaches)
- 832.C6 Coleoptera (Beetles)
- 832.C63 Collembola (Springtails)
- 832.D47 Dermaptera (Earwigs)
- 832.D6 Diptera (Flies, midges, mosquitoes)
- 832.E52 Embioptera
- 832.E65 Ephemeroptera (Mayflies)
- 832.H4 Hemiptera (True bugs)
- 832.H65 Homoptera
- 832.H9 Hymenoptera (Ants, bees, wasps)
- 832.I8 Isoptera (Termites)
- 832.L5 Lepidoptera (Butterflies and moths)
- 832.M34 Mallophaga (Biting lice)
- 832.M43 Mecoptera (Scorpionflies)
- 832.N5 Neuroptera
- 832.O36 Odonata
- 832.O7 Orthoptera
- 832.P45 Phasmatoptera (Stick insects)
- 832.P55 Plecoptera (Stoneflies)
- 832.P83 Psocoptera (Book lice)
- 832.S47 Siphonaptera (Fleas)
- 832.S87 Strepsiptera
- 832.T5 Thysanoptera (Thrips)
- 832.T8 Trichoptera (Caddisflies)

## Chordata

- 840.5 Cephalochordata. Tunicata. Hemichordata. Enteropneusta. Pterobranchia. Graptolithina
- Vertebrates
  - 841 General works, treatises, and textbooks
  - 842 Juvenile works

## Paleozoology

## Chordata

## Vertebrates -- Continued

- 845 Fossil footprints  
 846 Fossil teeth  
 847 Amniotes  
 Fishes
- 851 General works, treatises, and textbooks  
 851.2 Ichthyoliths  
 852.A-Z Systematic divisions, A-Z  
 852.A25 Acipenseriformes  
 852.A33 Agnatha  
 852.A4 Amiiformes  
 852.A5 Anaspida  
 852.A53 Anguilliformes  
 852.A7 Arthrodira  
 852.B47 Beryciformes  
 852.C48 Chimaeriformes  
 852.C52 Chondrichthyes  
 852.C55 Clupeiformes  
 852.C58 Coelacanthiformes  
 852.C6 Coelolepida  
 852.C7 Crossopterygii  
 852.C95 Cypriniformes  
 852.D5 Dipnoi  
 852.D7 Drepanaspidae  
 852.E55 Edestidae  
 (852.E6) Elasmobranchii  
     see QE852.C52
- 852.E65 Elopiformes  
 852.G26 Gadiformes  
 Ganoidei see QE852.S4
- 852.G37 Gasterosteiformes  
 852.G65 Gonorhynchiformes  
 852.H37 Heterodontidae  
 852.H4 Heterostraci  
 (852.H7) Holocephali  
     see QE852.C48
- 852.I35 Ichthyodectiformes  
 852.L35 Lamniformes  
     Cf. QL89.2.C37 *Carcharocles megalodon*
- 852.L45 Leptolepiformes  
 852.O45 Osteichthyes  
 852.O5 Osteostraci  
 852.P3 Palaeonisciformes  
 852.P4 Perciformes  
 852.P45 Pholidophoriformes  
 852.P5 Placodermi  
 Plagiostomi see QE852.C52
- 852.P8 Ptycholepidiformes  
 852.P9 Pycnodontiformes  
 852.R35 Rajiformes  
 852.R4 Redfieldiiformes  
 852.S2 Salmoniformes  
 852.S4 Semionotiformes

- Paleozoology
  - Chordata
    - Vertebrates
      - Fishes
        - Systematic divisions, A-Z -- Continued
          - (852.T2) Teleostei
            - see QE852.O45
          - 852.T48 Tetraodontiformes
          - 853 Fossil otoliths
        - Reptiles
          - 861 General works, treatises, and textbooks
          - Dinosaurs
            - Class here works on dinosaurs in general
            - For works on specific orders of dinosaurs see QE862.A+
            - 861.2 Periodicals, societies, congresses, serial publications
            - 861.3 Dictionaries and congresses
            - 861.35 Computer network resources
              - Including the Internet
            - 861.4 General works
            - 861.5 Juvenile works
            - 861.6.A-Z Special topics, A-Z
              - 861.6.B44 Behavior
              - 861.6.E35 Eggs
              - 861.6.E95 Extinction
              - 861.6.F45 Flight
              - 861.6.T72 Tracks
            - By region or country
              - United States
                - 861.7 General works
              - 861.8.A-Z By region or state, A-Z
                - Subarrange each state by Table Q4
              - 861.9.A-Z Other regions or countries, A-Z
                - Subarrange each country by Table Q4
            - 861.95 Miscellany and curiosa
          - 862.A-Z Other systematic divisions, A-Z
            - 862.C36 Captorhinidae
            - 862.C5 Chelonia. Testudinata
            - 862.C7 Cotylosauria
            - 862.C8 Crocodylia
            - (862.D4) Dicynodontia
              - see QE862.T5
            - (862.D5) Dinosaurs
              - see QE861.2+
            - 862.E9 Eunosauridae
            - 862.I2 Ichthyosauria
            - 862.L2 Lacertilia
            - 862.N7 Nothosauria
            - 862.O6 Ophidia. Serpentes
            - 862.O65 Ornithischia
            - Ornithosauria see QE862.P7
            - 862.P3 Pelycosauria
            - 862.P35 Phytosauria
            - 862.P37 Placodontia
            - 862.P4 Plesiosauria
            - 862.P7 Pterosauria
            - Pythonomorpha see QE862.L2



## Paleozoology

## Chordata

## Vertebrates

## Reptiles

## Systematic divisions, A-Z -- Continued

- 862.R5 Rhynchocephalia  
 862.S3 Saurischia  
 862.S33 Sauropterygia  
 862.S65 Squamata  
     Cf. QE862.L2 Lacertilia  
     Cf. QE862.O6 Ophidia  
 (862.S8) Synapsida  
     see QE861  
 862.T4 Thalattosauria  
 862.T47 Thecodontia  
 862.T5 Therapsida
- Amphibians. Batrachia
- 867 General works, treatises, and textbooks  
 868.A-Z Systematic divisions, A-Z  
 868.A46 Aistopoda  
 868.A48 Anthracosauria  
 868.A5 Anura  
 868.A6 Apoda  
 868.B7 Branchiosauridae  
 868.C2 Caudata  
 868.D5 Dissorophidae  
     Ecaudata see QE868.A5  
 868.I25 Ichthyostegalia  
 868.L3 Labyrinthodontia  
 868.M53 Microsauria  
 868.P4 Pelobatidae  
 868.P5 Pipidae  
 868.R5 Rhachitomi  
 868.R53 Rhytidosteidae  
     Stegocephala see QE868.L3
- Birds
- 871 General works, treatises, and textbooks  
 872.A-Z Systematic divisions, A-Z  
 872.A15 Accipitres  
 872.A2 Aepyornithiformes  
 872.A3 Alcidae  
 872.A6 Anseriformes  
 872.A7 Apterygidae  
 872.A8 Archaeonithes (Sauriurae)  
 (872.A9) Ardeiformes  
     see QE872.C53  
 872.C3 Casuariiformes  
 872.C53 Ciconiiformes  
     Coccyges see QE872.C9  
 872.C65 Coliiformes  
 872.C7 Columbidae  
 872.C75 Colymbidae (Gaviidae)  
 872.C77 Confuciusornithiformes  
 872.C8 Coraciiformes  
 872.C9 Cuculiformes  
 872.D5 Dinornithiformes

## Paleozoology

## Chordata

## Vertebrates

## Birds

## Systematic divisions, A-Z -- Continued

- 872.E52 Enantiornithiformes  
 872.G15 Galliformes (Galli)  
 872.G27 Gastornithiformes  
 Gaviidae see QE872.C75  
 Gressores see QE872.C53  
 872.G8 Gruiformes (Ralliformes)  
 872.O2 Odontognathae (Odontoholcae)  
 872.O6 Opisthocomidae  
 872.P2 Passeriformes  
 872.P4 Pelicaniformes  
 872.P5 Piciformes  
 872.P6 Podargidae  
 872.P65 Prophaethontiformes  
 872.P7 Psitaciformes  
 872.P8 Pteroclididae  
 Ralliformes see QE872.G8  
 872.R37 Ratites  
 872.R4 Rheiformes  
 Sauriruae see QE872.A8  
 872.S4 Sphenisciformes  
 872.S5 Steatornithes  
 Steganpodes see QE872.P4  
 872.S8 Strigiformes  
 872.S9 Struthioniformes  
 Teratornis see QE872.V9  
 872.T5 Threskiornithidae (Ibises and spoonbills)  
 872.T56 Tinamiformes  
 872.V9 Vulturidae  
 875 Fossil eggs
- Mammals
- 881 General works, treatises, and textbooks  
 882.A-Z Systematic divisions, A-Z  
 882.C15 Carnivora  
 882.C5 Cetacea  
 882.C8 Chiroptera  
 882.C84 Cimolesta  
 882.C9 Creodonta  
 882.D4 Deltatheridia  
 882.D45 Desmostylia  
 882.D6 Docodonta  
 882.E2 Edentata. Xenarthra  
 882.E75 Erinaceomorpha  
     Cf. QE882.I5 Insectivores  
 Eulipotyphla see QE882.S67  
 882.E86 Eupantotheria  
 882.H47 Herbivora  
 882.I5 Insectivores  
     Cf. QE882.E75 Erinaceomorpha  
     Cf. QE882.S67 Soricomorpha  
 882.L3 Lagomorpha  
 882.M25 Macroscelidea

## Paleozoology

## Chordata

## Vertebrates

## Mammals

## Systematic divisions, A-Z -- Continued

## Marsupialia

- 882.M3 General works
- 882.M32 Dasyuromorphia
- 882.M33 Didelphimorphia
- 882.M34 Diprotodontia
- 882.M35 Microbiotheria
- 882.M36 Notoryctemorphia
- 882.M37 Paucituberculata
- 882.M38 Peramelemorphia
- 882.M39 Sparassodonta
- 882.M6 Monotremata
- 882.M8 Multituberculata
- 882.N6 Notoungulata
- 882.P3 Pantotheria
- 882.P45 Pholidota
- 882.P5 Pinnipedia
- 882.P7 Primates

Cf. GN282+ Human paleontology

- 882.P8 Proboscidea
- 882.R6 Rodentia
- 882.S32 Scandentia
- 882.S6 Sirenia
- 882.S67 Soricomorpha. Eulipotyphla

Cf. QE882.I5 Insectivores

- 882.T34 Taeniodontia
- (882.T49) Theria

see QE881

- (882.T5) Tillodontia

see QE882.C84

- 882.T8 Tubulidentata
- Ungulates

- 882.U2 General works
- 882.U3 Artiodactyla
- 882.U6 Perissodactyla
- 882.U8 Other

e.g. Dinocerata, Toxodontia

Xenarthra see QE882.E2

## Fossils of doubtful affinity or origin

- 899 General works
- 899.2.A-Z Special groups, A-Z
- 899.2.A37 Acritarchs
- 899.2.C65 Conodonts
- 899.2.C67 Coprolites
- 899.2.D32 Dacryoconarida
- 899.2.T45 Tentaculitida

## Paleobotany

- 901 Periodicals, societies, congresses, serial publications
- 903 Nomenclature, terminology, notation, abbreviations
- History
- 904.A1 General works
- 904.A2-Z By region or country, A-Z

## Paleobotany -- Continued

## Biography

- 904.5            Collective
  - Including directories
- 904.52.A-Z     Individual, A-Z
  - e.g.
  - Seward, Sir Albert Charles, 1863-1941
- 904.52.S4     Seward, Sir Albert Charles, 1863-1941
- 905            General works, treatises, and textbooks
- 906            Juvenile works
- 907            Pictorial works and atlases
- Museums. Exhibitions
- 908.A1         General works
- 908.A2-Z      By region or country, A-Z
  - Subarrange each country by Table Q5
- 909            Study and teaching. Research
- 911            Addresses, essays, lectures
- Stratigraphic divisions
- Precambrian
- 914            General works
- 914.5          Proterozoic
- Paleozoic
- 915            General works
- 916            Cambrian
- 916.5          Ordovician
- 917            Silurian
- 918            Devonian
- Carboniferous
- 919            General works
- 919.3          Mississippian
- 919.5          Pennsylvanian
- 920            Permian
- Mesozoic
- 921            General works
- 922            Triassic
- 923            Jurassic
- 924            Cretaceous
- Cenozoic
- 925            General works
- Tertiary
- 926            General works
- Paleogene
- 926.5          General works
- 927            Paleocene
- 927.2          Eocene
- 928            Oligocene
- Neogene
- 928.5          General works
- 929            Miocene
- 930            Pliocene
- Quaternary
- 931            General works
- 931.2          Pleistocene
- 931.3          Holocene, Recent
- 932            Amber flora
- Geographical divisions
  - Prefer the stratigraphic divisions

## Paleobotany

## Geographical divisions -- Continued

- 934 Arctic regions  
North America
- 935 General works  
United States
- 936 General works
- 937.A-Z By region or state, A-Z  
Canada
- 938.A1 General works
- 938.A3-Z By region or province, A-Z  
Mexico
- 939.A1 General works
- 939.A3-Z By region or state, A-Z  
West Indies. Caribbean Area
- 940.A1 General works
- 940.A3-Z By region, country, or island, A-Z  
Offshore islands generally class with adjacent mainland  
Central America
- 941.A1 General works
- 941.A3-Z By region, country, or island, A-Z  
Offshore islands generally class with adjacent mainland  
South America
- 942.A1 General works
- 942.A3-Z By region, country, or island, A-Z  
Offshore islands generally class with adjacent mainland  
Europe
- 943 General works
- 944 Great Britain
- 945.A-Z Other regions or countries, A-Z  
Asia
- 946.A1 General works
- 946.A3-Z By region, country, or island, A-Z  
Offshore islands generally class with adjacent mainland  
Africa
- 947.A1 General works
- 947.A3-Z By region, country, or island, A-Z  
Offshore islands generally class with adjacent mainland  
Australia
- 948.A1 General works
- 948.A3-Z By state or territory, A-Z  
Offshore islands generally class with adjacent mainland
- 948.2 New Zealand
- 949.A-Z Pacific islands, A-Z
- 950 Antarctica
- Systematic divisions
- 955 Algae  
Including Characeae, Dasycladaceae, diatoms, dinoflagellates, nanofossils, and stromatolites
- 958 Fungi
- 959 Bryophyta (Liverworts and mosses)  
Pteridophyta
- 960 General works
- 960.5 Psilophyta. Psilopsida
- 961 Pterophyta. Polypodiophyta (Ferns)
- 965 Sphenopsida. Equisetophyta  
Hyeniales, Pseudoborniales, Calamitales, Equisetales, Sphenophyllales

- Paleobotany
  - Systematic divisions
    - Pteridophyta -- Continued
      - 971 Lycopside
        - Protolepidodendrales, Lepidodendrales, Pleuromeiales, Isoetales, Lycopodiales, Selaginellales
      - Gymnosperms. Pinophyta
        - 975 General works
        - Cycadophyta
          - 976 General works
          - 976.2 Cycadales
          - 976.3 Cycadeoidales
          - 976.4 Pteridospermales
        - Coniferophyta
          - 977 General works
          - 977.2 Coniferales
          - 977.3 Ginkgoales
          - 977.4 Gnetales
          - 977.5 Taxales
          - 978 Cordaitales
        - Angiospermophyta. Magnoliophyta
          - 980 General works
          - 981 Monocotyledons
          - 983 Dicotyledons
        - 989 Plants of unascertained position
        - 990 Coal balls
        - 991 Fossil woods. Fossil trees
        - 992 Fossil leaves
      - Palynology
        - 993 General works
        - 993.2 Fossil pollen
        - 996 Fossil spores
        - 996.5 Fossil fruit and seeds

## Natural history (General)

- Periodicals, societies, congresses, serial publications
- 1 English
- 3 French
- 5 German
- 7 Other languages (not A-Z)
- 9 Collected works (nonserial)
- 9.5 International Biological Programme
- 11 Voyages and expeditions
  - Cf. Q115+ Scientific expeditions
  - Cf. QK5 Botanical expeditions
  - Cf. QL5 Zoological expeditions
- 13 Dictionaries and encyclopedias
- Communication of information
- 13.2 General works
- 13.3 Information services
- 13.4 Computer network resources
  - Including the Internet
- 13.45 Natural history literature
- 14 Authorship
- 14.3 Philosophy
- History
- 15 General works
- 21.A-Z By region or country, A-Z
- Biography
- 26 Collective
- 31.A-Z Individual, A-Z
  - e.g.
  - 31.A2 Agassiz
  - Audubon, John James see QL31.A9
  - 31.D2 Darwin, Charles
  - 31.H3 Haller
  - Linnaeus see QH44
  - 31.M45 Mendel
  - 31.W58 White, Gilbert
- 35 Directories
- 41 Pre-Linnaean works (through 1735)
  - Cf. QK41 Botany
  - Cf. QL41 Zoology
- Works of Linnaeus (General)
- 43 General works
- 43.5 Minor works of Linnaeus
- 44 Works about Linnaeus
- General works, treatises, and advanced textbooks
- 45 1736-1969
- 45.2 1970-
- 45.5 Popular works
- 46 Pictorial works and atlases
  - Cf. TR721+ Nature photography
- 46.5 Natural history illustration
- 47 Elementary textbooks
- 48 Juvenile works
- 49 Vocational guidance
- Study and teaching. Research. Nature study
  - Cf. QH318.5 Biology fieldwork
- 50.5 Directories

- Study and teaching. Research. Nature study -- Continued
- 51 General works
- 53 Outlines, syllabi. Nature study manuals
- 54 Problems, exercises, examinations
- 54.5 Activity programs
- 55 Experiments
- 57 Audiovisual aids
- 58 Nature trails  
Cf. HV1664.N38 Natural history for people with visual disabilities
- Technique
- 60 General works
- 60.2 Data processing
- Collection and preservation
- 61 General works, treatises, and textbooks
- 63 Instruments and apparatus
- 68 Vivariums. Terrariums  
Cf. SB417 Glass gardens. Wardian cases  
Aquariums (Home and school) see SF456+  
Aquariums (Public) see QL78+  
Museums. Exhibitions  
For research serial publications see QH1+
- 70.A1 General works
- 70.A2-Z By region or country, A-Z  
Subarrange each country by Table Q5
- 72 Commercial lists, catalogs, etc.  
Nature conservation. Landscape protection. Biodiversity conservation. Endangered species and ecosystems (General). Habitat conservation. Ecosystem management. Conservation biology  
Including natural areas, nature reserves, wilderness areas, biosphere reserves, ecological reserves, environmentally sensitive areas  
Cf. GF90+ Landscape assessment  
Cf. GV191.67.W5 Recreational aspects of wilderness areas  
Cf. QH91.8.B6 Marine biology  
Cf. SK351+ Wildlife management areas
- 75.A1 Periodicals, societies, congresses, serial publications
- 75.A3-Z General works, treatises, and textbooks  
By region or country  
United States
- 76 General works
- 76.5.A-Z By region or state, A-Z
- 77.A-Z Other regions or countries, A-Z
- 77.3.A-Z Special topics, A-Z
- 77.3.C57 Citizen participation
- 77.3.C65 Communication of information
- 77.3.G46 Gender mainstreaming
- 77.3.R46 Remote sensing
- 77.3.S73 Statistical methods
- 77.3.T45 Teleology
- 78 Extinction (Biology)  
Cf. QE721.2.E97 Paleontology  
Cf. QL88+ Animal extinction
- 81 Addresses, essays, lectures. Nature books  
Cf. GV191.2+ Outdoor life. Outdoor recreation  
Cf. QH53 School manuals of nature study  
Cf. QH58 Nature trails



- Edible plants and animals. Wild food gathering
  - For cultivated plants and animals see S1+
  - Cf. QK98.5.A1+ Edible wild plants
  - Cf. QK617 Edible mushrooms
  - Cf. SH400+ Seafood gathering
  - Cf. SH401+ Fishing
  - Cf. SK1+ Hunting
- 82 General works
- 82.3.A-Z By region or country, A-Z
- 83 Classification. Nomenclature
  - Cf. QK91+ Plant classification
  - Cf. QL351+ Animal classification
- 83.5 Terminology, notation, abbreviations
- Geographical distribution. Biogeography. Phylogeography
  - Cf. QH543.3 Dispersal of organisms by environmental factors
- 84 General works, treatises, and textbooks
- Cold regions. Polar regions
  - Including Arctic regions
- 84.1 General works
- 84.2 Antarctica
- 84.3 Temperate regions
- 84.5 Tropics
  - Cf. QH86 Rain forests
- Physiographic divisions
- Land
  - For biology of a particular place see QH101+
- 84.8 Soils
- 85 Islands
- 86 Forests
  - Including rain forests, old growth forests, etc.
- 87 Mountains
- 87.2 Valleys
- 87.3 Wetlands
  - Including marshes, swamps, moors, bogs, etc.
- (87.5) Moors
  - see QH87.3
- 87.7 Prairies. Grasslands
- 88 Deserts
- 88.5 Dunes
- 89 Caves
- Water. Aquatic biology
  - For aquatic biology of a particular place see QH101+
  - Cf. GB855+ Natural water chemistry
- 90.A1 Periodicals, societies, congresses, serial publications
- 90.A4 Collected works (nonserial)
- 90.A5-Z General works, treatises, and textbooks
- 90.1 Addresses, essays, lectures
- 90.15 Popular works
- 90.16 Juvenile works
- 90.17 Pictorial works and atlases
- 90.2 Dictionaries and encyclopedias
- 90.25 History
  - For local history see QH101+
- Biography
  - Collective
  - Individual, A-Z
- 90.3.A2
- 90.3.A3-Z

- Geographical distribution. Biogeography. Phylogeography  
 Physiographic divisions  
 Water. Aquatic biology -- Continued
- 90.35 Directories  
 90.45 Aquatic biology as a profession. Vocational guidance  
 Study and teaching. Research
- 90.5 General works  
 90.53 Outlines, syllabi  
 90.55 Laboratory manuals  
 90.56 Collection and preservation  
 Research methods and apparatus
- 90.57.A1 General works, treatises, and textbooks  
 90.57.A3-Z Special, A-Z  
 90.57.A77 Artificial substrates  
 90.57.B5 Biological assay. Biological assessment  
 90.57.D7 Dredging
- Laboratories and stations  
 Cf. QH91.6+ Marine laboratories  
 Cf. QH96.6+ Freshwater laboratories
- 90.6 General works  
 90.65.A-Z By region or country, A-Z  
 Subarrange each country by Table Q6
- Museums. Exhibitions  
 Serial publications see QH90.A1  
 General works  
 90.7.A1 By region or country, A-Z  
 90.7.A2-Z Subarrange each country by Table Q5
- Aquatic parks and reserves  
 90.75.A1 General works, treatises, and textbooks  
 90.75.A3-Z By region or country, A-Z
- 90.8.A-Z Special topics, A-Z  
 90.8.B46 Benthos  
 90.8.B56 Biodiversity see QH90.8.B56  
 Biological diversity. Biodiversity. Biodiversity conservation  
 For aquatic biodiversity conservation of a particular region see QH76+  
 For aquatic biodiversity of a particular region see QH101+  
 Ecology see QH541.5.W3
- 90.8.I57 Introduced aquatic organisms  
 90.8.N44 Nekton  
 90.8.P5 Plankton (General)  
 Cf. QH91.8.P5 Marine plankton  
 Cf. QH96.8.P5 Freshwater plankton  
 Cf. QK933+ Phytoplankton  
 Cf. QL123 Zooplankton
- 90.8.T68 Toxicology
- Marine biology  
 Cf. QH541.5.S3 Marine ecology
- 91.A1 Periodicals, societies, congresses, serial publications  
 91.A4 Collected works (nonserial)  
 91.A5-Z General works, treatises, and textbooks  
 91.1 Addresses, essays, lectures  
 91.15 Popular works  
 91.16 Juvenile works  
 91.17 Pictorial works and atlases  
 91.2 Dictionaries and encyclopedias

- Geographical distribution. Biogeography. Phylogeography
- Physiographic divisions
  - Water. Aquatic biology
    - Marine biology -- Continued
      - 91.25 History
        - For local history see QH101+
      - Biography
        - 91.3.A2 Collective
        - 91.3.A3-Z Individual, A-Z
      - 91.35 Directories
      - 91.45 Marine biology as a profession. Vocational guidance
      - Study and teaching. Research
        - 91.5 General works
        - 91.53 Outlines, syllabi
        - 91.55 Laboratory manuals
        - 91.56 Collection and preservation
        - Research methods and apparatus
          - 91.57.A1 General works, treatises, and textbooks
          - 91.57.A3-Z Special, A-Z
            - 91.57.A4 Aeronautics
            - 91.57.B5 Biological assay. Biological assessment
            - 91.57.C68 Counting and measuring
            - 91.57.D7 Dredging
            - 91.57.E4 Electronic data processing
            - 91.57.G46 Geographic information systems. GIS
            - GIS see QH91.57.G46
          - 91.57.M38 Mathematical models
            - Measuring see QH91.57.C68
          - 91.57.P4 Photosynthesis determination
          - 91.57.P5 Plankton sampling
          - 91.57.R47 Research ships
        - Laboratories and stations
          - 91.6 General works
          - 91.65.A-Z By region or country, A-Z
            - Subarrange each country by Table Q6
        - Museums. Exhibitions
          - Serial publications see QH90.A1
      - 91.7.A1 General works
      - 91.7.A2-Z By region or country, A-Z
        - Subarrange each country by Table Q5
    - Marine parks and reserves
      - 91.75.A1 General works, treatises, and textbooks
      - 91.75.A3-Z By region or country, A-Z
  - Special topics, A-Z
    - 91.8.A-Z
      - 91.8.B4 Benthos
        - Biodiversity see QH91.8.B6
      - 91.8.B5 Biological chemistry
      - 91.8.B6 Biological diversity. Biodiversity. Biodiversity conservation
        - For marine biodiversity of a particular region see QH101+
        - For marine biodiversity conservation of a particular region see QH76+
        - For marine biodiversity and biodiversity conservation of a particular body of water see QH92+
        - Cf. QH91.8.S64 Species diversity
      - 91.8.B63 Biological invasions
      - 91.8.D44 Deep-sea biology
        - For deep-sea biology of a particular region see QH92+

## Geographical distribution. Biogeography. Phylogeography

## Physiographic divisions

## Water. Aquatic biology

## Marine biology

## Special topics, A-Z -- Continued

91.8.E3

Echo scattering layers

Ecology see QH541.5.S3

91.8.E87

Eutrophication

For marine eutrophication of a particular region see QH92+

91.8.E94

Exotic marine organisms

91.8.M3

Marine borers. Marine fouling organisms

Marine eutrophication see QH91.8.E87

91.8.M34

Marine productivity

91.8.N37

Nekton

91.8.N4

Neuston

91.8.N46

Nitrogen cycle

91.8.O4

Oil pollution

91.8.P5

Plankton

Cf. QK934 Marine phytoplankton

Cf. QL123 Marine zooplankton

91.8.P7

Primary productivity

91.8.S64

Species diversity

## By region

For marine biology of a particular region or country or off the coast of a particular region or country see QH101+

## Atlantic Ocean

92

## General works

## North Atlantic Ocean

92.1

## General works

## Coast of North America

92.2

## General works

92.3

## Gulf of Mexico

92.4

## Caribbean Sea

92.5.A-Z

## Other, A-Z

92.5.B33

## Baffin Bay

92.5.G46

## Georges Bank

92.5.M34

## Maine, Gulf of

## Coast of Europe

92.6

## General works

92.7

## Baltic Sea

92.8

## North Sea

92.9.A-Z

## Other, A-Z

92.9.B57

## Biscay Bay

92.9.E54

## English Channel

## Mediterranean Sea

93

## General works

93.1

## Adriatic Sea

93.2

## Aegean Sea

93.3

## Black Sea

93.4

## Caspian Sea

93.5.A-Z

## Other, A-Z

## South Atlantic Ocean

93.6

## General works

## Coast of Africa

93.7

## General works

93.75

## Gulf of Guinea

- Geographical distribution. Biogeography. Phylogeography
- Physiographic divisions
- Water. Aquatic biology
- Marine biology
- By region
- Atlantic Ocean
- South Atlantic Ocean -- Continued
- 93.8 Coast of South America
- 93.9.A-Z Other, A-Z
- Indian Ocean
- 94 General works
- 94.2 Arabian Sea
- 94.3 Red Sea
- 94.4 Persian Gulf
- 94.5 Bengal, Bay of
- 94.7.A-Z Other, A-Z
- Pacific Ocean
- 95 General works
- North Pacific Ocean
- 95.1 General works
- Coast of Asia
- 95.2 General works
- 95.22 China Sea
- 95.23 Yellow Sea
- 95.24 Japan Sea
- 95.25 Sea of Okhotsk
- 95.26 Bering Sea
- 95.28.A-Z Other, A-Z
- Coast of North America
- 95.3 General works
- 95.35 Gulf of Alaska
- 95.38 Salish Sea
- 95.4 Coast of Mexico and Central America
- 95.45.A-Z Other, A-Z
- South Pacific Ocean
- 95.5 General works
- 95.52 Coast of South America
- 95.53 Coral Sea
- 95.54 Tasman Sea
- 95.55.A-Z Other, A-Z
- Arctic Ocean
- Including polar oceans
- 95.56 General works
- 95.57.A-Z Arctic seas, A-Z
- Antarctic Ocean
- 95.58 Antarctic Ocean
- 95.59 Tropical seas
- 95.6.A-Z Inland seas, A-Z
- Cf. QH93+ Mediterranean Sea
- Cf. QH93.4 Caspian Sea
- 95.7 Seashore biology
- For works limited to a particular region or country see QH101+
- 95.8 Coral reefs
- 95.9 Brackish water. Saline water
- Freshwater biology. Limnology
- For works limited to specific geographic areas see QH101+
- 96.A1 Periodicals, societies, congresses, serial publications

## Geographical distribution. Biogeography. Phylogeography

## Physiographic divisions

## Water. Aquatic biology

## Freshwater biology. Limnology -- Continued

- 96.A4 Collected works (nonserial)
- 96.A5-Z General works, treatises, and textbooks
- 96.1 Addresses, essays, lectures
- 96.15 Popular works
- 96.16 Juvenile works
- 96.17 Pictorial works and atlases
- 96.2 Dictionaries and encyclopedias
- 96.25 History
  - For local history see QH101+
- Biography
  - 96.3.A2 Collective
  - 96.3.A3-Z Individual, A-Z
- 96.35 Directories
- 96.45 Freshwater biology as a profession. Vocational guidance
- Study and teaching. Research
  - 96.5 General works
  - 96.53 Outlines, syllabi
  - 96.55 Laboratory manuals
  - 96.56 Collection and preservation
- Research methods and apparatus
  - 96.57.A1 General works, treatises, and textbooks
  - 96.57.A3-Z Special, A-Z
  - 96.57.P75 Productivity measurement
  - 96.57.R33 Radioactive tracers
  - 96.57.S73 Statistical methods
- Laboratories and stations
  - 96.6 General works
  - 96.65.A-Z By region or country, A-Z
    - Subarrange each country by Table Q6
- Museums. Exhibitions
  - 96.7.A1 General works
  - 96.7.A2-Z By region or country, A-Z
    - Subarrange each country by Table Q5
- Aquatic parks and reserves
  - 96.75.A1 General works, treatises, and textbooks
  - 96.75.A3-Z By region or country, A-Z
- Special topics, A-Z
  - 96.8.A-Z
  - 96.8.B4 Benthos
    - Biodiversity see QH96.8.B53
  - 96.8.B5 Biological assay. Biological assessment
  - 96.8.B53 Biological diversity. Biodiversity. Biodiversity conservation
    - For freshwater biodiversity conservation of a particular region see QH76+
    - For freshwater biodiversity of a particular region see QH101+
  - Ecology see QH541.5.F7
- Eutrophication
  - 96.8.E9
- Introduced freshwater organisms
  - 96.8.I57
- Neuston
  - 96.8.N48
- Periphyton
  - 96.8.P43
- Plankton
  - 96.8.P5
    - Cf. QK935 Freshwater phytoplankton
    - Cf. QL143 Freshwater zooplankton
- Primary productivity
  - 96.8.P7

## Geographical distribution. Biogeography. Phylogeography

## Physiographic divisions

## Water. Aquatic biology

## Freshwater biology. Limnology

## Special topics, A-Z -- Continued

96.8.R34

Remote sensing

96.8.R35

Reservoir drawdown

## Special freshwater environments

97

Streams

98

Lakes. Ponds

99

Springs

100

Snow and ice

## Topographical divisions

## America

101

## General works

## North America

102

## General works

## United States

104

## General works

104.5.A-Z

## By region, A-Z

104.5.A6

Appalachian Mountains

104.5.A62

Appalachian Region, Southern

104.5.A74

Arkansas River

104.5.A84

Atlantic Coast

104.5.A85

Atlantic States

104.5.B42

Beartooth Mountains (Mont.and Wyo.)

104.5.B45

Bitterroot Range (Idaho and Mont.)

104.5.B47

Black Hills (S. D. and Wyo.)

104.5.B49

Blue Mountains (Or. and Wash.)

104.5.B5

Blue Ridge Mountains

104.5.C25

Caddo Lake and Region (La. and Tex.)

104.5.C3

Cascade Range

104.5.C35

Champlain, Lake

104.5.C45

Chesapeake Bay

104.5.C48

Clinch River (Va. and Tenn.)

104.5.C58

Colorado Plateau

104.5.C6

Colorado River (Colo.-Mexico)

104.5.C64

Columbia Plateau. Columbia River

104.5.C74

Cross Timbers (Okla. and Tex.)

104.5.C85

Cumberland Mountains

104.5.D4

Death Valley (Calif. and Nev.). Death Valley National Park (Calif. and Nev.)

104.5.D44

Delaware River

104.5.D46

Delmarva Peninsula

104.5.D48

Detroit River (Mich. and Ont.)

Dismal Swamp see QH105.V8

104.5.E37

East

104.5.E73

Erie, Lake

Four Corners Region see QH104.5.S6

104.5.F76

Front Range (Colo. and Wyo.)

104.5.G68

Great Basin

104.5.G7

Great Lakes

104.5.G73

Great Plains

Great Smoky Mountains see QH105.N8

104.5.G84

Gulf Coast

104.5.H53

High Plains

104.5.H83

Hudson River

## Geographical distribution. Biogeography. Phylogeography

## Topographical divisions

## America

## North America

## United States

## By region, A-Z -- Continued

- 104.5.H86 Huron, Lake (Mich. and Ont.)
- 104.5.K55 Klamath Mountains (Or. and Calif.). Klamath River Watershed (Or. and Calif.)
- 104.5.L34 Lake States
- 104.5.M24 Maine, Gulf of
- 104.5.M39 Mexican-American Border Region
- 104.5.M44 Michigan, Lake
- 104.5.M45 Middle Atlantic States
- 104.5.M47 Middle West
- 104.5.M5 Mississippi River. Mississippi River Valley
- 104.5.M56 Missouri River
- 104.5.N36 Nanticoke River (Del. and Md.)
- 104.5.N4 New England
- 104.5.N45 New York Region
- 104.5.N54 Niobrara River (Wyo. and Neb.)
- 104.5.N58 Northeastern States
- 104.5.N6 Northwest, Pacific
- 104.5.N62 Northwestern States
- 104.5.O58 Ontario, Lake (N.Y. and Ont.)
- 104.5.O9 Ozark Mountains
- 104.5.P32 Pacific Coast
- 104.5.P54 Piedmont Region
- 104.5.P67 Potomac River
- 104.5.R33 Red River Valley (Minn. and N.D.- Man.)
- 104.5.R56 Rio Grande Region
- 104.5.R6 Rocky Mountains
- 104.5.S25 San Juan River
- 104.5.S255 San Luis Valley (Colo. and N.M.)
- 104.5.S27 Savannah River (Ga. and S. C.)
- 104.5.S54 Sierra Nevada
- 104.5.S545 Siskiyou Mountains (Calif. and Or.)
- 104.5.S55 Snake River
- 104.5.S58 Sonoran Desert
- 104.5.S59 Southern States
- 104.5.S6 Southwest. Four Corners Region
- 104.5.S85 Superior. Lake
- 104.5.T46 Tennessee River Valley
- 104.5.W29 Wasatch Range (Utah and Idaho)
- 104.5.W4 West (U.S.)
- 104.5.W47 White Mountains (Calif. and Nev.)
- 104.5.W48 White Mountains (N.H. and Me.)
- 104.5.Y44 Yellowstone River
- 104.5.Y85 Yukon River Valley (Yukon and Alaska)
- 105.A-.W By state, A-W
  - e.g.
  - Hawaii see QH198.H3
  - North Carolina
    - Including Great Smoky Mountains
  - Virginia
    - Including Dismal Swamp
- Canada



## Geographical distribution. Biogeography. Phylogeography

## Topographical divisions

## America

## North America

## Canada -- Continued

106

## General works

106.2.A-Z

## By region or province, A-Z

For regions that include both the United States and Canada see QH104.5.A+

## Latin America

106.5

## General works

107

## Mexico

For regions that include both the United States and Mexico see QH104.5.A+

## Central America

108.A1

## General works

108.A2-Z

## By region or country, A-Z

108.B43

## Belize. British Honduras

British Honduras see QH108.B43

108.C6

## Costa Rica

El Salvador see QH108.S3

108.G8

## Guatemala

108.H6

## Honduras

108.N5

## Nicaragua

108.P3

## Panama

108.S3

## El Salvador

## West Indies. Caribbean Area

109.A1

## General works

109.A2-Z

## By island or group of islands, A-Z

109.A48

## Antigua and Barbuda

109.A5

## Antilles, Lesser

109.B3

## Bahamas

109.B35

## Barbados

Bermuda see QH110

109.B66

## Bonaire

109.C38

## Cayman Islands

109.C9

## Cuba

109.C93

## Curaçao

109.D65

## Dominica

109.D66

## Dominican Republic

109.F74

## French West Indies

109.G74

## Grenada

109.G8

## Guadeloupe

109.H3

## Haiti

Hispaniola see QH109.D66

Hispaniola see QH109.H3

109.J5

## Jamaica

109.N48

## Netherlands Antilles

Cf. QH109.B66 Bonaire

Cf. QH109.C93 Curaçao

Cf. QH109.S22 Saba

Cf. QH109.S55 Sint Eustatius

Cf. QH109.S56 Sint Maarten

109.P6

## Puerto Rico

109.S22

## Saba

109.S24

## Saint Kitts and Nevis

109.S25

## Saint Lucia

109.S28

## Saint Vincent and the Grenadines

## Geographical distribution. Biogeography. Phylogeography

## Topographical divisions

## America

## Latin America

## West Indies. Caribbean Area

## By island or group of islands, A-Z -- Continued

- 109.S55 Sint Eustatius  
 109.S56 Sint Maarten  
 109.T8 Trinidad and Tobago  
 109.T82 Turks and Caicos Islands  
 109.V55 Virgin Islands  
 West Indies, French see QH109.F74
- 110 Bermuda
- South America
- 111 General works  
 By region or country
- 112 Amazon River. Amazonia  
 113 Argentina  
 115 Bolivia  
 117 Brazil  
 119 Chile  
 121 Colombia  
 123 Ecuador  
 For Galapagos Islands see QH198.G3
- Guianas
- 125 General works  
 125.2 French Guiana  
 125.4 Guyana (British Guiana)  
 125.6 Suriname (Dutch Guiana)  
 125.85 Orinoco River (Venezuela and Colombia)  
 127 Paraguay  
 128 Peru  
 128.5 Titicaca Lake (Peru and Bolivia)  
 129 Uruguay  
 130 Venezuela
- Atlantic Ocean islands
- 132.A1 General works  
 132.A2-Z By island or group of islands, A-Z  
 132.A9 Azores  
 Bermuda see QH110  
 132.B68 Bouvet Island  
 Cabo Verde see QH132.C33  
 132.C3 Canary Islands  
 132.C33 Cape Verde. Cabo Verde  
 132.F34 Falkland Islands  
 132.F37 Faroe Islands  
 132.G73 Greenland  
 132.M28 Macaronesia  
 132.M3 Madeira Islands. Salvages Islands  
 Salvages Islands see QH132.M3  
 132.S644 South Georgia Island  
 132.S646 South Orkney Islands  
 West Indies see QH109.A1+
- Europe
- 135 General works  
 By region or country

## Geographical distribution. Biogeography. Phylogeography

## Topographical divisions

## Europe

## By region or country -- Continued

## British Isles. Great Britain

- 137 General works
- England
- 138.A1 General works
- 138.A3-Z Local, A-Z
  - e.g.
  - 138.S4 Selborne
  - 141 Scotland
  - 143 Ireland
  - 143.5 Northern Ireland
  - 144 Wales
  - 145 Austria
  - 147 France
    - Including the Riviera
  - 149 Germany
  - 150 Mediterranean Region (General)
    - Including Islands of the Mediterranean
  - 151 Greece
  - 152 Italy
  - 154 Malta
  - 157 Belgium
  - 158 Luxembourg
  - 159 Netherlands
  - Russia. Soviet Union. Russia (Federation)
    - General works
    - Russia in Asia see QH191
  - 161.5 Belarus
  - 161.6 Moldova
  - 161.7 Ukraine
  - 162 Poland
  - 164 Scandinavia (General)
  - 165 Denmark
    - Faroe Islands see QH132.F37
  - 166 Iceland
  - 168 Norway
  - 169 Sweden
  - Spain
    - General works
    - 171.2 Balearic Islands
    - Canary Islands see QH132.C3
  - 173 Portugal
    - For Azores see QH132.A9
  - 175 Switzerland
    - Including Alps (General)
  - 177 Balkan Peninsula
    - Including Turkey in Europe
    - For Turkey in Asia see QH192
- 178.A-Z Other European regions or countries, A-Z
  - 178.A47 Albania
  - 178.A53 Andorra
  - 178.A73 Ardennes
  - 178.A85 Atlantic Coast

## Geographical distribution. Biogeography. Phylogeography

## Topographical divisions

## Europe

## By region or country

## Other European regions or countries, A-Z -- Continued

- 178.A95 Azov, Sea of (Ukraine and Russia)
- 178.B9 Bulgaria
- 178.C28 Carpathian Mountains Region
- 178.C29 Caspian Sea
- 178.C33 Caucasus
- 178.C36 Central Europe
- 178.C7 Crete
- 178.C73 Croatia
- 178.C8 Czechoslovakia. Czech Republic
- 178.D36 Danube River Valley
- 178.D54 Dnieper River Watershed
- 178.D6 Donets Basin (Ukraine and Russia)
- 178.E88 Estonia
- 178.F5 Finland
- 178.H8 Hungary
- Islands of the Mediterranean see QH150
- 178.I87 Istria
- 178.J85 Jura Mountains
- 178.L28 Lapland
- 178.L34 Latvia
- 178.L45 Liechtenstein
- 178.L5 Lithuania
- (178.M23) Macedonia (Republic)
  - see QH178.N64
- Mediterranean Region see QH150
- 178.N64 North Macedonia
- 178.N67 North Sea Region
- 178.P53 Pieniny Range (Poland and Slovakia)
- 178.P97 Pyrenees
- 178.R55 Rhine River Valley
- 178.R57 Riga, Gulf of (Latvia and Estonia)
- 178.R8 Romania
- 178.S27 San Marino
- 178.S37 Serbia
- 178.S65 Slovakia
- 178.S66 Slovenia
- 178.T57 Tisza River Valley
- 178.W47 Western Bug River Region
- 178.Y8 Yugoslavia
- 178.5 Eurasia
- Asia
- 179 General works
- By region or country
- 181 China
- 183 India
- 183.5 Sri Lanka
- Indochina
- 184 General works
- 184.2 Cambodia
- 184.4 Laos
- 184.6 Vietnam

Geographical distribution. Biogeography. Phylogeography  
Topographical divisions

Asia

By region or country -- Continued

- 185 Malaysia. Malay Peninsula  
186 Indonesia  
For Papua see QH186.5  
186.5 New Guinea  
Including Papua (Indonesia) and Papua New Guinea  
187 Philippines  
Japan  
188 General works  
188.3 Ryuku Islands  
Including Okinawa Prefecture  
189 Iran  
190 Kuwait  
191 Russia in Asia. Siberia. Russian Far East  
Central Asia  
191.3 General works  
191.4 Kazakhstan  
191.5 Kyrgyzstan  
191.6 Tajikistan  
191.7 Turkmenistan  
191.8 Uzbekistan  
192 Turkey in Asia  
192.5 Caucasus  
Including Armenia, Azerbaijan, Georgia (Republic)  
193.A-Z Other Asian regions or countries, A-Z  
193.A34 Afghanistan  
193.B35 Bangladesh  
193.B48 Bhutan  
193.B65 Borneo  
193.B7 Brunei  
193.B93 Burma. Myanmar  
193.C16 Cambodia  
Caspian Sea see QH178.C29  
193.C8 Cyprus  
193.E18 East Asia  
193.G35 Ganges River  
193.G62 Gobi Desert  
193.G64 Golan Heights  
193.H5 Himalayan Mountains  
(193.I5) Indonesia  
See QH186  
193.I7 Iraq  
193.I8 Israel. Palestine  
193.J6 Jordan  
193.K57 Kopet Dag (Turkmenistan and Iran)  
193.K6 Korea  
193.L42 Lebanon  
193.M25 Macau  
193.M28 Malacca, Strait of  
193.M6 Mongolia  
Myanmar see QH193.B93  
193.N4 Nepal  
193.O5 Oman

## Geographical distribution. Biogeography. Phylogeography

## Topographical divisions

## Asia

## By region or country

## Other Asian regions or countries, A-Z -- Continued

- 193.P28 Pakistan
- 193.P33 Palestine see QH193.I8
- 193.P349 Pamir-Alai Mountains
- 193.P35 Persian Gulf
- 193.P352 Persian Gulf Region
- 193.Q2 Persian Gulf States
- 193.S28 Qatar
- 193.S46 Saudi Arabia
- 193.S59 Singapore
- 193.S6 South Asia
- 193.S9 Southeast Asia
- 193.T35 Syria
- 193.T46 Taiwan
- 193.T48 Thailand
- 193.U5 Tien Shan
- (193.V53) United Arab Emirates
- 193.Y4 Vietnam
  - see QH184.6
- 194 Yemen
- 194 Africa
  - General works
  - By region or country, A-Z
    - 195.A23 Africa, Central see QH195.C37
    - 195.A233 Africa, East
    - 195.A24 Africa, Eastern
    - 195.A25 Africa, French-speaking Equatorial
    - 195.A3 Africa, French-speaking West
    - 195.A312 Africa, North
      - Cf. QH150 Mediterranean Region
    - 195.A323 Africa, Northeast
    - Africa, Southern
    - Africa, Southwest see QH195.N29
    - Africa, Sub-Saharan see QH195.S87
    - Africa, West see QH195.W46
  - 195.A4 Algeria
  - 195.B6 Botswana
  - 195.B92 Burkina Faso
  - 195.C36 Cameroon
  - 195.C37 Central Africa
  - 195.C38 Central African Republic
  - 195.C45 Chad
  - 195.C46 Chad, Lake
  - 195.C58 Congo (Brazzaville)
  - 195.C6 Congo (Democratic Republic). Zaire
  - 195.E4 Côte d'Ivoire see QH195.I9
  - 195.E76 Egypt
  - 195.E8 Equatorial Guinea
  - 195.G3 Ethiopia
  - 195.G34 Gabon
  - 195.G53 Gambia
  - Ghana

## Geographical distribution. Biogeography. Phylogeography

## Topographical divisions

## Africa

## By region or country, A-Z -- Continued

- 195.G84 Guinea
- 195.G85 Guinea-Bissau
- 195.I9 Ivory Coast. Côte d'Ivoire
- 195.K3 Kalahari Desert
- 195.K4 Kenya
- 195.L47 Lesotho
- 195.L7 Liberia
- 195.M2 Madagascar
- 195.M47 Malawi
- 195.M475 Mali
- 195.M479 Mauritania
- 195.M4793 Mayumbe
- 195.M5 Morocco
- 195.M6 Mozambique
- (195.N27) Namib Desert
  - see QH195.N29
- 195.N29 Namibia. Southwest Africa
- 195.N49 Niger River
- 195.N5 Nigeria
- 195.N55 Nile River. Nile River Watershed
- 195.O38 Okavango River
- Rhodesia, Northern see QH195.Z3
- Rhodesia, Southern see QH195.Z55
- 195.R53 Rift Valley
- 195.R9 Ruwenzori Mountains
- 195.R92 Rwanda
- 195.S3 Sahara
- 195.S33 Sahel
- 195.S34 Sao Tome and Principe
- 195.S36 Senegal
- 195.S53 Sierra Leone
- 195.S6 South Africa
- 195.S67 South Sudan
- Southern Africa see QH195.A323
- 195.S72 Stanley Pool (Congo (Brazzaville) and Zaire)
- 195.S87 Sub-Saharan Africa
- 195.S9 Sudan
- 195.S92 Sudan (Region)
- 195.T28 Tanganyika, Lake
- 195.T3 Tanzania
- 195.T53 Togo
- 195.U4 Uganda
- United Arab Republic see QH195.E4
- 195.V5 Victoria, Lake
- 195.W46 West Africa
- 195.Z3 Zambia
- 195.Z55 Zimbabwe
- Indian Ocean islands
  - General works
  - By island or group of islands, A-Z
    - 196.A1 Aldabra Islands
    - 196.A2-Z Chagos Islands
    - 196.A4
    - 196.C53

## Geographical distribution. Biogeography. Phylogeography

## Topographical divisions

## Indian Ocean islands

## By island or group of islands, A-Z -- Continued

- 196.C55 Christmas Island
- 196.C62 Cocos (Keeling) Islands
- 196.C64 Comoros
- 196.H43 Heard Island
- 196.K3 Kerguelen
- Madagascar see QH195.M2
- 196.M35 Marion Island
- 196.M38 Mauritius
  - Including Rodrigues
- 196.M39 Mayotte
- 196.R4 Réunion
- Rodrigues see QH196.M38
- 196.S2 Saint Paul
- 196.S4 Seychelles

## Australasia

- 196.8 General works
- Australia
  - General works
  - By state, territory, or region, A-Z
- New Zealand

## Pacific Area. Pacific islands

- 198.A1 General works
- 198.A2-Z By island or group of islands, A-Z
  - 198.A44 American Samoa
  - 198.B5 Bismarck Archipelago
  - 198.C3 Campbell Island
  - 198.C65 Cook Islands
  - 198.E53 Enewetak Atoll
  - 198.F3 Fanning Island
  - 198.F55 Fiji
  - 198.F74 French Polynesia
  - 198.G3 Galapagos Islands
  - 198.G8 Guam
  - 198.H3 Hawaiian Islands
  - 198.J64 Johnston Island
  - 198.K57 Kiribati
  - 198.M18 Mariana Islands
  - 198.M2 Marquesas Islands
  - 198.M34 Marshall Islands
  - 198.M48 Micronesia
  - 198.M5 Midway Islands
  - 198.N4 New Caledonia
  - 198.P4 Pelew Islands
  - 198.P57 Pitcairn Islands
    - Including Ducie Atoll, Henderson Island, Oeno Atoll, and Pitcairn Island
  - Samoa see QH198.W5
- 198.S3 Samoan Islands
- 198.S5 Snares Islands (N.Z.)
- 198.S6 Solomon Islands
- 198.S67 Spratly Islands
- 198.T35 Tahiti
- 198.T66 Tonga



- Geographical distribution. Biogeography. Phylogeography  
 Topographical divisions  
 Australasia  
 Pacific Area. Pacific islands  
 By island or group of islands, A-Z -- Continued  
 198.T88 Tuvalu  
 198.V35 Vanuatu  
 198.W5 Western Samoa. Samoa  
 (199) Arctic regions  
 see QH84.1  
 (199.5) Antarctica  
 see QH84.2  
 Tropical regions see QH84.5
- Microscopy  
 201 Periodicals, societies, congresses, serial publications  
 202 Collected works (nonserial)  
 203 Dictionaries and encyclopedias  
 204 History  
 General works, treatises, and textbooks  
 Including handbooks  
 Cf. QH277 Popular works  
 205 Through 1969  
 205.2 1970-  
 206 Study and teaching. Research  
 207 Technique  
 Cf. QH231+ Preparation and mounting of objects
- Microscopes  
 Cf. QC370.5+ Optical instruments  
 211 General works, treatises, and textbooks  
 Class application of microscopic techniques with the subject to which they are applied, e.g.  
 QE434 Microscopic analysis of rocks
- 212.A-Z Special microscopes, A-Z  
 Including the use and microscopy of special microscopes
- 212.A25 Acoustic microscopes  
 212.A76 Atom-probe field ion microscopes  
 212.A78 Atomic force microscopes  
 212.C6 Compound microscopes  
 Confocal microscopes see QH224  
 212.D5 Dissecting microscopes  
 212.E4 Electron microscopes  
 212.F5 Field ion microscopes  
 212.F55 Fluorescence microscopes  
 212.I5 Interference microscopes  
 212.M84 Multiphoton excitation microscopes  
 212.N43 Near-field microscopes  
 212.P5 Phase-contrast microscopes  
 212.P6 Polarizing microscopes  
 212.P7 Proton microscopes  
 212.S24 Scanning Auger electron microscopes  
 212.S28 Scanning electrochemical microscopes  
 212.S3 Scanning electron microscopes  
 Including low-voltage scanning electron microscopes  
 212.S32 Scanning force microscopes  
 212.S33 Scanning probe microscopes  
 212.S34 Scanning transmission electron microscopes  
 212.S35 Scanning tunneling microscopes

- Microscopy
  - Microscopes
    - Special microscopes, A-Z -- Continued
    - 212.T7 Transmission electron microscopes
    - 212.U48 Ultraviolet microscopes
    - 212.X2 X-ray microscopes
  - 213 Accessories and their use
  - 215 Illuminating apparatus
  - 217 Polarizing apparatus
    - Cf. QH212.P6 Polarizing microscopes
  - 219 Catalogs of apparatus and supplies
  - 221 Chemical microscopy
    - Cf. QD98.M5 Microchemical analysis
  - 222 Video microscopy
  - 224 Confocal microscopy
    - Including confocal fluorescence microscopy
  - 225 Cryomicroscopy
  - Preparation of microscope specimens. Microtechnique
    - 231 General works
    - 233 Microtomy. Sectioning
    - 234 Embedding
      - Including specific embedments
    - 235 Fixation
    - 236 Freeze etching
    - 236.2 Freeze fracturing
    - 237 Staining
    - 239 Mounting
  - 251 Photomicrography
  - 255 Microcinematography
  - Microphotometry see QC391
  - 261 Pictorial works and atlases
  - Microscopic observations (General)
    - 271 Through 1800
    - 273 1801-1969
    - 273.2 1970-
  - (274) Microorganisms
    - see QR
  - (275) Aquatic microorganisms
    - see QR105+
  - 277 Popular works
  - 278 Juvenile works
  - 278.5 Recreations

QH	BIOLOGY (GENERAL)	QH
	Biology (General)	
	Cf. N72.B5 Biology and art	
	Cf. N72.B56	
301	Periodicals, societies, congresses, serial publications	
302	Collected works (nonserial)	
302.5	Dictionaries and encyclopedias	
	Communication in biology	
	Cf. QH318 Biological illustration	
303	General works, treatises, and textbooks	
	Information services	
	Including databases (General)	
303.15	Directories	
303.2	General works, treatises, and textbooks	
303.4.A-Z	By region or country, A-Z	
	Subarrange each country by Table Q5	
303.5	Computer network resources	
	Including the Internet	
303.6	Biological literature. Life sciences literature	
304	Authorship	
	Including practical manuals and stylebooks	
	Cf. PE1475 Preparation of scientific papers in English	
304.5	Terminology, notation, abbreviations	
	For nomenclature see QH83	
	History and conditions	
	Cf. QH361 History of evolution	
305	General works	
305.2.A-Z	By region or country, A-Z	
305.5	Women life scientists. Women biologists	
306	Early works through 1860	
	General works and treatises	
307	1861-1969	
307.2	1970-	
	Textbooks	
	Advanced	
308	Through 1969	
308.2	1970-	
	Elementary	
308.5	Through 1969	
308.7	1970-	
309	Popular works	
309.2	Juvenile works	
310	Handbooks, tables, formulas, etc.	
311	Addresses, essays, lectures	
313	Special aspects of the subject as a whole	
313.5.A-Z	Special topics, A-Z	
313.5.F67	Forensic biology	
314	Biology as a profession. Vocational guidance	
	Study and teaching. Research	
315	General works	
315.25	Teacher training	
315.3	Audiovisual aids	
315.5	Outlines, syllabi	
316	Problems, exercises, examinations	
316.4	Activity programs	
316.5	Experiments	
317	Laboratory manuals	

- Study and teaching. Research -- Continued
- 318 Biological illustration
- 318.5 Fieldwork  
     Cf. QH58 Nature trails
- By region or country
- United States
- 319.A1 General works
- 319.A2-Z By region or state, A-Z
- 320.A-Z Other regions or countries, A-Z
- Biological laboratories and stations
- Class here descriptive works, administrative reports, etc.  
 For scientific contributions (serial) see QH301  
 Cf. QH90.6+ Aquatic biological laboratories  
 Cf. QH91.6+ Marine biological laboratories  
 Cf. QH96.6+ Freshwater biological laboratories
- 321 General works
- By region or country
- United States
- 321.5 General works
- 322.A-Z Individual laboratories and stations. By name, A-Z
- 323.A-Z Other regions or countries, A-Z  
     Subarrange each country by Table Q6
- 323.2 Safety measures
- 323.5 Biometry. Biomathematics. Mathematical models  
     Cf. QH507 Information theory in biology
- Methods of research. Technique. Experimental biology
- Cf. QH585+ Cytology
- 324 General works
- 324.15 Biological resource centers  
     Cf. QH442.4 Gene libraries
- Data processing. Bioinformatics
- 324.2 General works
- 324.25 Artificial intelligence
- 324.27 Data mining
- Tracers
- 324.3 General works
- 324.35.A-Z Special elements. By chemical symbol, A-Z (Table Q1)
- 324.4 Germfree life
- Instruments and apparatus (General)
- 324.42 General works
- 324.5 Catalogs of apparatus and supplies
- 324.8 Biological models
- 324.9.A-Z Other special, A-Z
- 324.9.A88 Autoclaving
- 324.9.A9 Autoradiography
- 324.9.B48 Biophotometry
- 324.9.B49 Biophysical labeling
- 324.9.B5 Biotelemetry
- 324.9.C3 Calorimetry
- 324.9.C4 Centrifugation  
     Centrifugation, Density gradient see QH324.9.D46
- 324.9.C7 Cryobiology. Freeze-drying
- 324.9.D46 Density gradient centrifugation
- 324.9.E36 Electron paramagnetic resonance
- 324.9.E38 Electron probe microanalysis
- 324.9.E4 Electrophoresis

- Methods of research. Technique  
 Other special, A-Z -- Continued
- 324.9.E44 Ellipsometry  
 324.9.E5 Enzymatic analysis  
 (324.9.F38) Flow cytometry  
     see QH585.5.F56
- 324.9.F4 Fluorescence spectroscopy  
 Freeze-drying see QH324.9.C7
- 324.9.I5 Infrared spectroscopy  
 324.9.I8 Isolation perfusion  
 324.9.L37 Lasers  
 324.9.L5 Liquid chromatography  
 324.9.L53 Liquid scintillation counting  
 324.9.M28 Magnetic resonance  
 324.9.M3 Manometry  
 324.9.M5 Microprobe analysis  
 324.9.N48 Neutron scattering  
 324.9.N8 Nuclear magnetic resonance  
 324.9.Q35 Quantitative magnetic resonance  
 324.9.R3 Radioactivation analysis  
 324.9.S4 Separation  
 324.9.S53 Spectrophotometry  
 324.9.S6 Spectroscopy  
 324.9.S62 Spin labels  
 324.9.S95 Synchrotron radiation  
 324.9.T45 Three-dimensional imaging  
 324.9.X2 X-ray microanalysis
- 325 Origin and beginnings of life  
 326 Exobiology  
     Cf. QB54 Extraterrestrial life
- Space biology  
     Cf. QK760 Effect of space flight on plants  
     Cf. QP82.2.W4 Physiology of weightlessness  
     Cf. RC1150+ Human space physiology  
     Cf. TL943 Planetary quarantine  
     Cf. TL945 Space vehicle sterilization
- 327 General works  
 328 Space radiobiology  
 331 Philosophy of biology  
 332 Bioethics  
     Cf. R724+ Medical ethics
- 333 Social aspects of biology  
 341 Nature of life, vital force, etc.  
 343 Comparison of living and nonliving matter  
 343.4 Geobiology. Biosphere  
 Biogeochemistry  
     Cf. QR103 Geomicrobiology
- 343.7 General works  
 Biogeochemical cycles  
     Including cycles of individual elements, e.g. carbon cycle, nitrogen cycle, etc.
- 344 General works  
 344.3.A-Z By region or country, A-Z

- 345 General biochemistry of plants and animals  
 For works limited to chemical aspects of biological materials see QD415+  
 For the biochemistry of special substances see QP525+  
 Cf. QK861+ Plant biochemistry  
 Cf. QP501+ Animal biochemistry  
 Cf. QR148 Microbiological chemistry
- 347 Comparison of plants and animals
- 349 Miscellany and curiosa
- 351 Morphology  
 Cf. QK640+ Plant morphology  
 Cf. QL799+ Animal morphology
- Population biology  
 Cf. HB848+ Demography  
 Cf. QH455 Population genetics  
 Cf. QK910 Vegetation dynamics  
 Cf. QL752 Animal populations
- 352 General works
- 352.5 Population viability analysis
- 353 Biological invasions. Introduced organisms  
 Cf. QH91.8.B63 Marine biological invasions
- Evolution  
 For classification by organism, see in subclasses QK or QL  
 Cf. BL263 Religion and science  
 Cf. QE701+ Paleontology
- 359 Periodicals, societies, congresses, serial publications
- 360 Collected works (nonserial)
- 360.2 Dictionaries and encyclopedias
- 360.5 Philosophy
- 360.6 Nomenclature, terminology, notation, abbreviations
- 361 History
- 362 Study and teaching. Research
- 363 Early works through 1860
- Works of Darwin
- 365.A1 Collected works. By date
- 365.A2-.Z8 Separate works, A-Z
- The descent of man
- 365.D2 Editions. By date
- 365.D25 Selections. By editor
- 365.D3-.D79 Translations  
 Arrange alphabetically by language, then Cutter for translator
- 365.D8 Criticism and reviews
- The expression of the emotions in man and animals
- 365.E2 Editions. By date
- 365.E25 Selections. By editor
- 365.E3-.E79 Translations  
 Arrange alphabetically by language, then Cutter for translator
- 365.E8 Criticism and reviews
- 365.O15-.O18 On the origin of species, previous essays  
 Essays written before or during the period of the creation of the main work
- On the origin of species
- 365.O2 Editions. By date
- 365.O25 Selections. By editor
- 365.O3-.O79 Translations  
 Arrange alphabetically by language, then Cutter for translator, for example:
- 365.O5 German
- 365.O55 Hungarian

## Evolution

## Works of Darwin

## Separate works, A-Z

## On the origin of species

## Translations -- Continued

365.O68

Romanian

365.O7

Russian

365.O73

Spanish

365.O8

## Criticism and reviews

## The variation of animals and plants under domestication

365.V2

## Editions. By date

365.V25

## Selections. By editor

365.V3-.V79

## Translations

Arrange alphabetically by language, then Cutter for translator

365.V8

## Criticism and reviews

365.Z9

## Selections from more than one work. By editor

## General works, treatises, and textbooks

366

1861-1969

366.2

1970-

367

## Popular works

367.1

## Juvenile works

367.3

## Critical works

Class here works that argue against the theory of evolution

Cf. BL263 Religion and science

367.5

## Phylogenetic relationships

For the evolution of particular animals and groups of animals, see systematic sections, e.g.

QL618.2 Evolution of fishes; QL708.5 Evolution of mammals

(368)

## Human evolution

see GN281+

(368.5)

## Plant evolution (General)

see QK980

369

## Miscellany and curiosa

(371)

## Special aspects of the subject as a whole

see QH371.3.A+

371.3.A-Z

## Special aspects of the subject as a whole, A-Z

371.3.M37

## Mathematical models

371.5

## Macroevolution

372

## Coevolution

372.5

## Homoplasy

373

## Convergence

375

## Natural selection

376

## Group selection

378

## Symbiogenesis

380

## Speciation

390

## Mutation in evolution. Evolutionary genetics

395

## Heterochrony

398

## Punctuated equilibrium

## Variation

401

## General works

(405)

## Statistical methods

see QH323.5

(406)

## Plants

see QK983

408

## Animals

408.5

## Phenetics

409

## Clines

## Evolution

Variation -- Continued

- 411 Experimental study
- Hybridization. Hybrid zones
- 421 General works
- (423) Plants  
see QK982
- 425 Animals  
Class particular animals in QL or SF  
Cf. SF105+ Animal breeding

## Genetics

Class here general and experimental works in genetics

For studies made on the genetic constitution of an organism in order to elucidate its total function, see systematic divisions in QK, QL, or QR. For genetic studies for improvement of breed or variety, see the plant or animal in S

For endocrine genetics see QP187.5

For immunogenetics see QR184+

- 426 Periodicals, societies, congresses, serial publications
- 426.5 Collected works (nonserial)
- 427 Dictionaries and encyclopedias
- History
- 428 General works
- 428.2.A-Z By region or country, A-Z
- Biography
- 429 Collective
- 429.2.A-Z Individual, A-Z  
e.g.  
Mendel see QH31.M45
- 429.5 Directories
- General works, treatises, and textbooks
- 430 General works
- 431 Human genetics (General)  
Cf. CS21.3 Genetic genealogy  
Cf. HQ750+ Eugenics  
Cf. RB155+ Medical genetics
- 432 Animal genetics (General)  
Cf. QH408 Animal variation  
Cf. SF105+ Animal breeding
- (433) Plant genetics (General)  
see QK981
- 434 Microbial genetics (General)  
Cf. QR73 Variation
- 436 Pictorial works and atlases
- 437 Popular works
- 437.5 Juvenile works
- 438 Addresses, essays, lectures
- 438.4.A-Z Special aspects of the subject as a whole, A-Z
- 438.4.B55 Biochemical markers. Genetic markers
- 438.4.C45 Chemogenomics  
Genetic markers see QH438.4.B55
- 438.4.M3 Mathematical models
- 438.4.M33 Mathematics
- 438.4.S73 Statistical methods
- 438.5 Heredity and environment. Nature and nurture
- 438.7 Social and moral aspects  
Sociogenomics see QH457.5



- Genetics -- Continued
- 439 Vocational guidance
- Study and teaching. Research
- 440 General works
- 440.2 Outlines, syllabi
- 440.3 Problems, exercises, examinations
- 440.4 Experiments
- 440.5 Laboratory manuals
- Laboratories
- 440.7 General works
- 440.8.A-Z By region or country, A-Z
  - Subarrange each country by Table Q6
- 441 Technique
- 441.2 Data processing
- 441.5 Cytogenetics
  - Cf. QH600+ Chromosomes
  - Cf. QP620+ Nucleic acids
- Molecular genetics. Genetic engineering
  - Cf. QK981.5 Plant genetics
  - Cf. RB155+ Medical genetics
  - Cf. TP248.6 Genetic engineering applications
- 442 General works
- 442.2 Cloning
- 442.3 Gene targeting
- 442.4 Gene libraries
- 442.6 Transgenic organisms. Transgenic animals
- Recombination mechanisms
- 443 General works
- 444 Segregation. Assortment
- Crossing over
- 445 General works
- Linkage and genetic mapping
- 445.2 General works
- 445.5 Sex linkage
- 445.7 Mosaicism
- Genes. Alleles. Genome
  - Cf. QP98 Blood groups
- 447 General works
- 447.2 Dominance and recessiveness
- 447.5 Conversion
- Polymorphisms
- 447.6 General works
- 447.63.A-Z Special polymorphisms, A-Z
  - 447.63.F43 Fibrinogen polymorphisms
  - 447.63.H45 Hemoglobin polymorphisms
  - 447.63.S56 Single nucleotide polymorphisms
- Lethal factors see QH463.5
- 447.8.A-Z Individual genes and genetic elements, A-Z
  - 447.8.A28 Actin genes
  - 447.8.B46 Beta-glucuronidase genes
  - 447.8.H65 Homeobox genes
  - Ir genes see QR184.4
  - 447.8.O43 Olfactory receptor genes
  - Oncogenes see RC268.42
  - 447.8.R47 Reporter genes
  - 447.8.S45 Selfish genetic elements

## Genetics

## Recombination mechanisms -- Continued

## Recombination in microorganisms

- 448 General works
- 448.2 Conjugation
- 448.3 Transduction
- 448.4 Transformation
- Genetic regulation. Gene expression
- 450 General works
- 450.2 Genetic code. Transcription
- 450.25 RNA editing
- 450.26 RNA interference
- 450.3 Gene amplification
- 450.4 Overexpression
- 450.5 Translation. Assembly
- 450.6 Post-translational modification of proteins
- 450.7 Epistasis
- 451 Cell fusion. Cell hybridization
- 452 Cytoplasmic inheritance
- 452.2 Microsatellites
- Mobile genetic elements
  - Cf. QH462.I48 Insertion elements, DNA
- 452.3 General works
- 452.5 Episomes
- 452.6 Plasmids
  - Cf. QR76.6 Bacterial plasmids
- 452.7 Quantitative genetics
- 452.8 In situ hybridization
- 453 Developmental genetics
- 455 Population genetics
  - Cf. GN289+ Physical anthropology
  - Cf. HB848+ Population (Economic theory)
- 456 Ecological genetics
- Endocrine genetics see QP187.5
- Evolutionary genetics see QH390
- Immunogenetics see QR184+
- 457 Behavior genetics
  - Cf. BF341+ Heredity of consciousness
  - Cf. BF699+ Genetic psychology
- 457.5 Sociogenomics
- Mutations
  - Cf. QH390 Mutation in evolution
- 460 General works
- 461 Genetic mutation. Polyploidy. Aneuploidy
- Chromosomal mutation
  - General works, treatises, and textbooks
  - By type, A-Z
  - 462.B7 Breakage
  - 462.D4 Deletion
  - 462.D8 Duplication
  - 462.G46 Gene fusion
  - 462.I48 Insertion elements, DNA
  - 462.I5 Inversion
  - 462.N65 Nondisjunction
  - 462.T7 Translocation
- 463 Gene mutation

## Genetics

## Mutations

- Gene mutation -- Continued
  - By type, A-Z
    - 463.13.A-Z
    - 463.13.I57
    - 463.2
    - 463.5
    - 464
  - Insertional mutagenesis
  - Nonsense mutation
  - Lethal factors
  - Spontaneous mutation
  - Induced mutation. DNA damage
    - General works, treatises, and textbooks
    - By agent, A-Z
      - 465.A1
      - 465.A2-Z
      - 465.C3
      - 465.C5
      - 465.C6
      - 465.D55
      - 465.N4
      - 465.O44
    - Caffeine
    - Chemicals (General)
    - Colchicine
    - DNA. Polynucleotides
    - Neutrons
    - Oil shale extracts
    - Polynucleotides see QH465.D55
    - Radiation (General)
    - Ultraviolet rays
    - X-rays
  - Site-specific mutagenesis
- Genetic repair mechanisms
- Antimutagens
- Experimental organisms, A-Z
  - Prefer classification by genetic aspect studied
  - Aspergillus
  - Corprinus
  - Corn
  - Drosophila
  - Escherichia
  - Maize see QH470.C64
  - Mice
  - Neurospora
  - Oenothera
  - Saccharomyces cerevisiae
  - Tobacco mosaic virus
  - Tradescantia
  - Trillium

## Reproduction

- Cf. QK825+ Plants
- Cf. QP251+ Animals
- 471
- General works, treatises, and textbooks
- Asexual
  - Cf. QH442.2 Cloning (Genetic engineering)
  - General works, treatises, and textbooks
  - 475
  - 477
  - 479
  - Fission
  - Budding
- Sexual
  - General works, treatises, and textbooks
  - 481
  - 485
  - 487
  - 489
  - Fertilization
  - Parthenogenesis
  - Alternation of generations

- Development. Morphogenesis
  - Including tissue remodeling
  - Cf. QK665 Plant embryology
  - Cf. QL951+ Animal embryology
- 491 General works
- 492 Evolutionary developmental biology
- 499 Regeneration
  - Cf. QK840 Plant physiology
  - Cf. QP90.2 Animal physiology
- Life
  - Cf. QK710+ Plants
  - Cf. QP1+ Animals
- 501 General works, treatises, and textbooks
- Biochemistry see QH345
- 504 Biomagnetism
  - Cf. QP82.2.M3 Physiological effects of magnetic fields
  - Cf. QP345 Human magnetic fields
- 505 Biophysics
- 506 Molecular biology
  - Cf. QP187.3.M64 Molecular endocrinology
- Homeostasis see QP90.4
- 507 Information theory in biology
- 508 Biological control systems
- 509 Biological transport
  - Cf. QH615 Osmosis
- 509.5 Bioelectronics
- 510 Bioenergetics
- 510.5 Bioacoustics
- 511 Growth
- 512 Biomineralization
- 513 Biomechanics
  - Cf. QP303 Animal mechanics. Human mechanics
- 513.5 Fluid dynamics
- 514 Movement. Tropisms. Taxes
  - Including attachment mechanisms
- 515 Photobiology
  - Cf. QH641 Bioluminescence
  - Cf. QP517.P45 Photobiochemistry
- 516 Thermobiology
- 517 Electrophysiology
  - Cf. QP341 Animals
  - Cf. QP517.B53 Bioelectrochemistry
- 518 Respiration
- 518.5 Anaerobiosis
- 519 Nutrition
- 521 Metabolism
- 523 Dormancy
- 524 Cryptobiosis. Anhydrobiosis
- 527 Chronobiology. Periodicity. Biorhythms
  - Cf. QP84.6 Physiology
- 528 Degeneration
- 528.5 Longevity
  - Cf. QP85 Animals
- 529 Senescence. Aging

QH	BIOLOGY (GENERAL)	QH
	Life -- Continued	
530	Death	
	Cf. QH671 Cell death	
	Cf. QP87 Animal death	
530.5	Biodegradation	
	Cf. QP517.B5 Animals	
	Cf. QR135+ Microbial degradation	
531	Miscellany and curiosa	
	Ecology	
	Class here works on general ecology and general animal ecology. For works on ecology of individual animals and groups of animals, see the animal	
	For human ecology see GF1+	
	For ecology of a particular topographic area see QH101+	
	For plant ecology see QK900+	
	Cf. BL65.E36 Ecology and religion	
	Cf. HX550.E25 Communism and ecology	
	Cf. QH546 Ecological genetics	
540	Periodicals, societies, congresses, serial publications	
540.3	Collected works (nonserial)	
540.4	Dictionaries and encyclopedias	
540.5	Philosophy	
540.6	Nomenclature, terminology, notation, abbreviations	
540.7	Classification	
	History	
540.8	General works	
540.83.A-Z	By region or country, A-Z	
	Biography see QH26+	
541	General works, treatises, and textbooks	
541.13	Popular works	
541.14	Juvenile works	
541.142	Handbooks, tables, formulas, etc.	
541.145	Addresses, essays, lectures	
541.15.A-Z	Special aspects of the subject as a whole, A-Z	
541.15.A9	Autoradiographic techniques	
	Biodiversity see QH541.15.B56	
541.15.B54	Biological assay	
541.15.B56	Biological diversity. Biodiversity	
	For local, see QH84.1+	
	For physiographic divisions see QH84.8+	
	Cf. QH75+ Biodiversity conservation	
	Cf. QH541.15.S64 Species diversity	
	Cf. QK46.5.D58 Plant diversity	
541.15.B84	Buffer zones	
541.15.C44	Chemical ecology	
541.15.C55	Closed ecological systems	
541.15.C67	Corridors	
541.15.D6	Documentation	
541.15.E19	Ecohydrology	
541.15.E22	Ecological assessment (Biology)	
541.15.E24	Ecological heterogeneity	
541.15.E245	Ecological integrity	
541.15.E248	Ecological zones	
541.15.E25	Economic ecology	
541.15.E26	Ecophysiology	
	Cf. QP82+ Animal ecophysiology	
541.15.E265	Ecosystem health	

## Ecology

Special aspects of the subject as a whole, A-Z -- Continued

- 541.15.E267 Ecosystem services
- 541.15.E27 Ecotones
  - Including land-water ecotones
- 541.15.E45 Electronic data processing
- 541.15.F66 Food chains. Food webs
- 541.15.F73 Fragmented landscapes
- 541.15.G46 Geographic information systems
- 541.15.H34 Habitat suitability index models
- Health, Ecosystem see QH541.15.E265
- Heterogeneity, Ecological see QH541.15.E24
- 541.15.I5 Indicators (Biology)
- Integrity, Ecological see QH541.15.E245
- 541.15.K48 Keystone species
- 541.15.L35 Landscape ecology
  - For local see QH101+
- 541.15.M23 Macroecology
- 541.15.M26 Mapping
- 541.15.M3 Mathematical models
  - Cf. QH541.15.H34 Habitat suitability index models
- 541.15.M34 Mathematics
- 541.15.M63 Molecular ecology
- 541.15.M64 Monitoring
- 541.15.N84 Null models
- 541.15.R34 Radioactive tracers
- 541.15.R4 Remote sensing
- 541.15.R45 Restoration ecology
  - For local see QH101+
  - For specific types of environments see QH541.5.A+
- 541.15.R57 Risk assessment
- 541.15.S5 Simulation methods
- 541.15.S62 Spatial ecology
- 541.15.S64 Species diversity
- 541.15.S68 Stable isotopes
- 541.15.S72 Statistical methods
- 541.15.S95 Surveys
  - Including general habitat surveys
- 541.15.T68 Toxicity testing
- Zones, Ecological see QH541.15.E248
- Communication in ecology
- 541.18 General works
- 541.183 Information services
- 541.185 Computer network resources
  - Including the Internet
- 541.187 Translating
- Study and teaching. Research
- 541.2 General works
- 541.215 Outlines, syllabi
- Special teaching methods and aids
- 541.22 General works
- 541.23 Audiovisual aids
- 541.235.A-Z Other methods, A-Z
- 541.235.G34 Games
- 541.24 Experiments
- 541.25 Laboratory manuals

## Ecology

Study and teaching. Research -- Continued

By region or country

United States

541.26

General works

541.262.A-Z

By region or state, A-Z

541.264.A-Z

Other regions or countries, A-Z

Ecological laboratories and stations

541.27

General works

541.273.A-Z

By region or country, A-Z

541.28

Technique

541.29

Applied ecology

Cf. QH541.15.M64 Monitoring

Cf. QH541.15.R45 Restoration ecology

541.3

Biological productivity

Cf. QK909.5 Vegetation productivity

541.5.A-Z

By type of environment, A-Z

For local see QH101+

Abyssal zone see QH541.5.D35

Antarctica see QH84.2

Aquatic see QH541.5.W3

Arctic regions see QH84.1

541.5.A74

Arid regions

541.5.B63

Bogs

Boreal forests see QH541.5.T3

Brackish waters see QH541.5.E8

Braided rivers see QH541.5.S7

541.5.C24

Canals

541.5.C3

Caves

Cerrados see QH541.5.P7

541.5.C5

Chaparral

541.5.C6

Cities. Urban ecology

541.5.C62

Cliffs

541.5.C63

Cloud forests

541.5.C65

Coasts

541.5.C7

Coral reefs and islands. Reefs

541.5.C73

Coulees

541.5.C95

Cypress swamps

541.5.D35

Deep-sea zone. Abyssal zone

Including hydrothermal vents

541.5.D4

Deserts

541.5.E8

Estuaries. Brackish waters

541.5.F56

Fjords

Floodplains see QH541.5.V3

541.5.F6

Forests

Including forest canopy ecology and old growth forest ecology

Cf. QH541.5.C63 Cloud forests

Cf. QH541.5.P47 Permafrost forests

Cf. QH541.5.R27 Rain forests

Cf. QH541.5.T3 Taigas. Boreal forests

Cf. QH541.5.T66 Tropical dry forests

Cf. SD416+ Forest influences

Cf. SD418+ Deforestation

541.5.F7

Freshwater

541.5.G37

Gardens

Grasslands see QH541.5.P7

## Ecology

## By type of environment, A-Z -- Continued

- 541.5.G76 Groundwater
- 541.5.H43 Heathlands
- 541.5.H65 Hot springs  
Cf. QH541.5.D35 Hydrothermal vents  
Cf. QR107 Microbial ecology
- 541.5.H67 Household ecology
- Intertidal zones see QH541.5.S35
- 541.5.I8 Islands
- 541.5.J8 Jungle
- 541.5.K4 Kelp beds
- 541.5.L27 Lagoons
- 541.5.L3 Lakes  
Cf. QH541.5.S22 Salt lakes
- 541.5.L53 Llanos
- 541.5.M27 Mangrove swamps
- Marine ecology see QH541.5.S3
- 541.5.M3 Marshes. Wetlands
- 541.5.M4 Meadows
- 541.5.M44 Mediterranean-type  
Cf. QH150 Mediterranean Region
- 541.5.M6 Moors
- 541.5.M65 Mountains
- 541.5.O24 Ocean bottom. Seabed
- 541.5.O25 Ocean currents
- Oceans see QH541.5.S3
- 541.5.P47 Permafrost forests
- 541.5.P6 Polar regions
- 541.5.P63 Ponds
- 541.5.P7 Prairies. Grasslands. Savannas. Cerrados. Steppes  
Cf. QH541.5.S18 Sagebrush steppes
- 541.5.R27 Rain forests
- 541.5.R3 Rangelands
- Reefs see QH541.5.C7
- 541.5.R4 Reservoirs
- 541.5.R52 Riparian areas
- Rivers see QH541.5.S7
- 541.5.R62 Roads. Roadsides
- 541.5.S18 Sagebrush steppes
- 541.5.S22 Salt lakes
- 541.5.S24 Salt marshes. Tide marshes
- 541.5.S26 Sand dunes
- Savannas see QH541.5.P7
- 541.5.S3 Sea. Marine ecology. Ocean ecology  
Cf. QH541.5.D35 Deep-sea zone
- Seabed see QH541.5.O24
- 541.5.S35 Seashore. Tidal pools  
Including intertidal zones
- 541.5.S55 Shrublands
- 541.5.S57 Snow ecology
- 541.5.S6 Soil
- 541.5.S65 Springs  
Cf. QH541.5.H65 Hot springs
- Steppes see QH541.5.P7



## Ecology

## By type of environment, A-Z -- Continued

- 541.5.S7 Streams. Rivers  
Including braided rivers  
Cf. QH541.5.C73 Coulees
- 541.5.S87 Sublittoral
- 541.5.S9 Swamps  
Cf. QH541.5.C95 Cypress swamps  
Cf. QH541.5.M27 Mangrove swamps
- 541.5.T3 Taigas. Boreal forests  
Cf. QH541.5.P47 Permafrost forests
- 541.5.T45 Temperate forests
- 541.5.T53 Tidal flats  
Tidal pools see QH541.5.S35  
Tide marshes see QH541.5.S24
- 541.5.T66 Tropical dry forests
- 541.5.T7 Tropics
- 541.5.T8 Tundras
- 541.5.U55 Underground ecology
- 541.5.U64 Uplands  
Cf. QH541.5.M65 Mountains
- Urban ecology see QH541.5.C6
- 541.5.V27 Vacant lots
- 541.5.V3 Valleys. Floodplains  
Cf. QH541.5.C73 Coulees
- 541.5.W3 Water. Aquatic ecology  
Water, Fresh see QH541.5.F7  
Wetlands see QH541.5.M3
- 541.5.X45 Xeric ecology
- (542) Paleoeecology  
see QE720
- Geobiology see QH343.4
- 542.5 Biogeomorphology  
Bioclimatology. Microclimatology  
Cf. QH545.T4 Temperature as a factor in ecology
- 543 General works
- 543.2 Acclimatization  
Cf. QK913 Plant acclimatization
- 543.3 Dispersal of organisms by environmental factors  
Radioecology. Radiobiology  
Cf. QH328 Space radiobiology  
Cf. QH545.N8 Nuclear power plants, nuclear reactors  
Cf. QH545.N83 Nuclear warfare  
Cf. QH652+ Radiation effects on cells
- 543.5.A1 Periodicals. Congresses
- 543.5.A2 Collected works (nonserial)
- 543.5.A3-Z General works, treatises, and textbooks
- 543.58 Aquatic radioecology  
General works
- 543.6 Marine radioecology
- 543.8 Brackish water radioecology. Estuarine radioecology
- 543.9 Freshwater radioecology
- 543.95 Ultraviolet radiation
- 544 Phenology

## Ecology -- Continued

## Influence of special factors in the environment

For works on the technical aspects (e.g., control, measurement, etc.) of pollution in general and of special kinds of pollution see TD172+

Cf. GF51 Human ecology

Cf. QH343.7+ Biogeochemistry

Cf. QK746+ Plants

Cf. QP82+ Animals

Cf. RA565+ Environmental health

545.A1 General works, treatises, and textbooks

545.A15-Z Special, A-Z

Acid precipitation see QH545.A17

545.A17 Acid rain. Acid precipitation. Acid deposition

545.A2 Acids

545.A23 Actinide elements

545.A25 Agricultural chemicals

545.A3 Air pollution

545.A4 Aldrin

545.A42 All terrain bicycles. Mountain bikes

Including all terrain cycling and mountain biking

545.A43 All terrain vehicles

545.A45 Ammonia

545.A77 Arsenic

Atomic warfare see QH545.N83

545.B45 Benzene

545.B47 Beryllium

545.B55 Biological pest control agents

545.B57 Bird declines

545.B6 Boron

Brines, Oil field see QH545.O47

545.C3 Cadmium

545.C34 Campfires

545.C35 Canals

545.C37 Carbon isotopes

545.C47 Chemical elements

545.C48 Chemical warfare. Chemical weapons

545.C5 Chloroform

545.C52 Cholecalciferol

545.C54 Chromium

545.C545 Cities and towns. Urban growth. Urban sprawl

545.C57 Coal-fired power plants

545.C59 Contaminated sediments

Control of weeds see QH545.W43

545.C6 Copper

545.C64 Coral fisheries

545.C78 Cruise ships

545.D35 Dams. Reservoirs

545.D4 Deicing chemicals

Desalination plants see QH545.S33

545.D486 Diazinon

545.D5 Dichloromethane

545.D55 Dioxins

Cf. QH545.T44 Tetrachlorodibenzodioxin

545.D57 Diquat

545.D7 Dredging

545.D713 Dredging (Fisheries)

## Ecology

## Influence of special factors in the environment

## Special, A-Z -- Continued

- 545.D72 Dredging spoil
- 545.D74 Drilling muds
- 545.D75 Drilling platforms
- 545.E35 El Niño Current
- 545.E38 Electric power plants
- 545.E4 Electromagnetic waves
- 545.E42 ELF electromagnetic fields
- 545.E53 Energy development see QH545.E53
- 545.E53 Energy industries. Energy development
- 545.E53 Erosion, Soil see QH545.S64
- 545.E98 Exterior lighting
- 545.F47 Fertilizers
- 545.F5 Fire. Fire ecology
- 545.F52 Fish culture
- 545.F53 Fisheries
- 545.F55 Flood control
- 545.F67 Flood dams see QH545.D35
- 545.F67 Forest management
- 545.G37 Gas pipelines
- 545.G46 Geothermal power plants
- 545.G55 Glyphosate
- 545.H34 Growth, Urban see QH545.C545
- 545.H34 Hang gliding
- 545.H42 Heavy metals
- 545.H47 Herbicides
- 545.H49 Hexazinone
- 545.H54 Hiking
- 545.H92 Hydrocarbons
  - Including polycyclic aromatic hydrocarbons
- 545.H93 Hydroelectric power plants
- 545.L35 Insecticides see QH545.P4
- 545.L35 Lakeshore development
- 545.L4 Land reclamation see QH545.R38
- 545.L4 Lead
- 545.L63 Logging
- 545.M3 Manganese
- 545.M34 Mariculture
- 545.M4 Marine pollution see QH545.W3
- 545.M4 Mercury
- 545.M45 Metals
- 545.M52 Metals, Heavy see QH545.H42
- 545.M52 Mineral industries
- 545.M6 Molybdenum
- 545.M86 Mountain bikes see QH545.A42
- 545.M86 Muds, Drilling see QH545.D74
- 545.M86 Munitions
  - Cf. QH545.C48 Chemical weapons
- 545.N3 Natural disasters
- 545.N47 Nickel
- 545.N5 Nitrogen
- 545.N65 Noise
- 545.N8 Nuclear power plants. Nuclear reactors
- 545.N83 Nuclear warfare

## Ecology

## Influence of special factors in the environment

## Special, A-Z -- Continued

- 545.O32 Ocean acidification
- 545.O33 Ocean fertilization see QH545.S43
- 545.O38 Ocean outfalls
- 545.O38 Off-road vehicles see QH545.A43
- 545.O38 Offshore oil industry
  - Cf. QH545.D75 Drilling platforms
- 545.O47 Oil field brines
- 545.O5 Oil pollution
  - Cf. QH91.8.O4 Marine biology
- 545.O54 Oil sands extraction plants
- 545.O56 Oil shales
- 545.O57 Oil well drilling
- 545.O72 Organochlorine compounds
- 545.O74 Organometallic compounds
- 545.O76 Organophosphorus compounds
- 545.O87 Outdoor recreation
- 545.O94 Ozone
- 545.P37 Pentachlorophenol
- 545.P38 Perfluorinated chemicals
- 545.P39 Persistent pollutants
- 545.P4 Pesticides
  - Including insecticides
- 545.P5 Phosphorus
- 545.P5 Pipelines, Gas see QH545.G37
- 545.P5 Pollution (General) see QH545.A1
- 545.P5 Pollution, Air see QH545.A3
- 545.P5 Pollution, Marine see QH545.W3
- 545.P5 Pollution, Oil see QH545.O5
- 545.P5 Pollution, Thermal see QH545.T48
- 545.P5 Pollution, Water see QH545.W3
- 545.P6 Polychlorinated biphenyls
- 545.P6 Polycyclic aromatic hydrocarbons see QH545.H92
- 545.P6 Power plants, Coal-fired see QH545.C57
- 545.P6 Power plants, Electric see QH545.E38
- 545.P6 Power plants, Geothermal see QH545.G46
- 545.P6 Power plants, Hydroelectric see QH545.H93
- 545.P73 Predator control
- 545.P73 Radiation see QH543.5+
- 545.R38 Reclamation of land
- 545.R42 Recreation areas
- 545.R44 Reforestation
- 545.R44 Reservoirs see QH545.D35
- 545.R58 River regulation
- 545.R62 Roads
- 545.S33 Saline water conversion plants. Desalination plants
- 545.S35 Saltwater encroachment
- 545.S37 Sand and gravel industry
- 545.S4 Scuba diving
- 545.S43 Seawater fertilization. Ocean fertilization
- 545.S43 Sediments, Contaminated see QH545.C59
- 545.S45 Selenium
- 545.S49 Sewage
- 545.S493 Sewage sludge

## Ecology

## Influence of special factors in the environment

## Special, A-Z -- Continued

- 545.S498 Shore protection
- 545.S5 Shotgun pellets
- 545.S55 Silver
- 545.S56 Skiing
  - Including snow grooming
- Sludge, Sewage see QH545.S493
- Snow grooming see QH545.S56
- 545.S6 Snowmobiles
- 545.S63 Soil amendments
  - Including biochar
- 545.S64 Soil erosion
- Sprawl, Urban see QH545.C545
- 545.S8 Stream channelization
- 545.S84 Strip mining
- 545.S9 Sulfur
- 545.S92 Sulfur compounds
- 545.T37 Technetium
- 545.T4 Temperature
- 545.T44 Tetrachlorodibenzodioxin
- 545.T45 Textile industry
- 545.T48 Thermal pollution
- 545.T55 Tin compounds
- 545.T7 Trace elements
- 545.T74 Transuranium elements
- 545.T743 Trawls and trawling
- 545.T75 Triclopyr
- 545.T76 Tritium
- 545.T87 Turbidity
- 545.U7 Uranium mining
- Urban growth see QH545.C545
- Urban sprawl see QH545.C545
- 545.V3 Vanadium
- Vehicles, All terrain see QH545.A43
- 545.W26 War
  - Cf. QH545.N83 Nuclear warfare
- 545.W28 Waste disposal
- 545.W3 Water pollution
  - Including marine pollution
  - Cf. QH90.8.T68 Aquatic toxicology
- 545.W33 Water resources development
- Waterpower electric plants see QH545.H93
- 545.W43 Weed control
- 545.X44 Xenobiotics
- 545.Z56 Zinc
- 546 Adaptation
  - Including protective mechanisms, mimicry
  - Cf. QK912+ Plant adaptation
  - Cf. QH543.2 Acclimatization
- 546.3 Competition. Niche
- 547 Parasitism
- Symbiosis
  - General works
- 548 Mutualism
- 548.3

QH	BIOLOGY (GENERAL)	QH
	Ecology -- Continued	
549	Colonies	
549.5	Animal-plant relationships	
(555)	Degeneration	
	see QH528	
(558)	Aging	
	see QH529	
(559)	Death	
	see QH530	
	Cytology	
	Class here general and experimental works in cytology.	
	For works on the cytology of particular animals written to elucidate the total organism, see the systematic divisions in QL	
	Cf. QH441.5 Cytogenetics	
	Cf. QK671 Plant cell anatomy	
	Cf. QK725 Plant cell physiology	
573	Periodicals, societies, congresses, serial publications	
574	Collected works (nonserial)	
575	Dictionaries and encyclopedias	
	History	
577	General works	
578.A-Z	By region or country, A-Z	
	General works, treatises, and textbooks	
581	Through 1969	
581.2	1970-	
581.5	Addresses, essays, lectures	
582	Pictorial works and atlases	
582.4	Popular works	
582.5	Juvenile works	
	Study and teaching. Research	
583	General works	
583.15	Outlines, syllabi	
583.2	Laboratory manuals	
	Technique	
	Cf. TP248.27.A53 Animal cell biotechnology	
585	General works	
	Cell culture	
585.2	General works	
585.3	Serum-free culture media	
	Cell lines	
585.4	General works	
585.45	Continuous cell lines	
585.457	Lymphoblastoid cell lines	
585.5.A-Z	Special techniques, A-Z	
585.5.C43	Cell fractionation	
585.5.C44	Cell separation	
585.5.C64	Colony-forming units assay	
585.5.C98	Cytofluorometry	
585.5.C984	Cytophotometry	
585.5.D38	Data processing	
585.5.E43	Electrodes, Ion selective	
585.5.E46	Electrophoresis	
585.5.E48	Electroporation	
585.5.F56	Flow cytometry	
585.5.I45	Immobilization of cells	
585.5.L37	Lasers	

## Cytology

## Technique

Special techniques, A-Z -- Continued

585.5.M52

Micropipette techniques

585.5.M53

Microspectrophotometry

585.5.N82

Nuclear magnetic resonance spectroscopy

(585.5.S45)

Serum-free culture

see QH585.3

585.5.S83

Subcellular fractionation

## Cell populations

587

General works

588.A-Z

Individual types of cells, A-Z

588.A38

Adult stem cells

Embryonic stem cells see QH588.S83

588.S83

Stem cells

Including embryonic stem cells

Stem cells, Adult see QH588.A38

591

Protoplasm. Cytoplasm

595

Nucleus

596

Nucleolus

597

Centrosome. Centriole

599

Chromatin

## Chromosomes

Cf. QH462.A1+ Chromosomal mutation

600

General works

600.15

Artificial chromosomes

600.2

Centromere

600.3

Telomere

600.5

Sex chromosomes

600.6

Giant chromosomes. Lampbrush chromosomes

## Cell membranes

601

General works

601.15

Electric properties

601.2

Nuclear membranes

602

Lipid membranes. Bilayer lipid membranes. Liposomes

603.A-Z

## Other special, A-Z

603.C4

Cell junctions

603.C43

Cell receptors

603.C63

Coated vesicles

603.C95

Cytoplasmic filaments

603.C96

Cytoskeleton

603.E6

Endoplasmic reticulum

603.E63

Endosomes

603.E93

Extracellular space

603.G55

Glycocalyxes

603.G6

Golgi apparatus

603.I49

Inclusion bodies

603.I54

Ion channels

603.L9

Lysosomes

603.M35

Microbodies

603.M4

Microsomes

603.M44

Microtubules

603.M5

Mitochondria

603.N83

Nuclear matrix

603.P47

Peroxisomes

603.R5

Ribosomes

## Cytology

- Other special, A-Z -- Continued
- 603.S27 Sarcoplasmic reticulum
- Control mechanisms. Cell regulation
  - Cf. QP187.3.C44 Endocrinology
- 604 General works
- 604.2 Cell interaction
  - Cf. QP517.C45 Cellular signal transduction
- 604.3 Cell compartmentation
- 604.5 Ion exchange
- 604.7 Cell growth. Cell proliferation
- Cell division
  - 605 General works
  - 605.2 Mitosis
  - 605.3 Meiosis
- Cell differentiation
  - 607 General works
    - Cf. QL963.5 Embryology
  - 607.2.A-Z By type of cell, A-Z
  - 607.2.C47 Chromatophores. Pigment cells
    - Pigment cells see QH607.2.C47
- 608 Aging of cells
  - Cf. QH671 Pathology and death
- 609 Cellular repair mechanisms
- Physical and chemical properties
  - Cf. QH506 Molecular biology
- 611 General works
- 613 Histochemistry
- 615 Osmosis
- 621 Turgescence
- 622 Adsorption
- 623 Adhesion
- Physiological properties
  - 631 General works
  - 633 Respiration
  - 634 Ingestion. Pinocytosis, etc.
  - 634.2 Exocytosis
  - 634.5 Metabolism
  - 635 Heat production. Energy
  - 641 Light production. Bioluminescence
    - Cf. QP517.C54 Chemiluminescence
  - 642 Optical properties
  - 643 Radiation properties
  - 645 Electric properties
  - 645.5 Mechanical properties
  - 646 Contraction
  - 647 Motility. Irritability
- Effect of physical and chemical agents on cells
  - Cf. QK746+ Plant physiology
  - Cf. QP82+ Animal physiology
- 650 General works
- 651 Light
  - Cf. QH515 Photobiology



## Cytology

## Effect of physical and chemical agents on cells -- Continued

## Radiation

For the effect of radiation on specific organs, organisms, etc., see the specific organ, etc., e.g.

QP356.5, Nervous system

Cf. QP82.2.R3 Radiation (Physiology)

652.A1 Periodicals, societies, congresses, serial publications

652.A2 Collected works (nonserial)

652.A3-Z General works, treatises, and textbooks

652.4 Ultraviolet radiation

(652.5) Radiogenetics

see QH465.R3

652.7 Acoustic radiation

653 Temperature

655 Electricity

656 Magnetic fields

657 Gravity

658 Pressure

659 Chemicals

671 Pathology and death

Cf. QH608 Aging of cells

## Economic biology

Cf. S494.5.E25 Agriculture

Cf. SB107+ Economic botany

Cf. SF84+ Economic zoology

705 General works

705.5.A-Z By region or country, A-Z

## Botany

- 1 Periodicals, societies, congresses, serial publications
- 3 Collected works (nonserial)
- 5 Voyages and expeditions
- 7 Encyclopedias
- 9 Dictionaries
- Communication of information
- 9.2 General works
- 9.3 Information services
- 9.4 Computer network resources
  - Including the Internet
- 10 Terminology, notation, abbreviations
  - Cf. QK96 Nomenclature
- 11 Indexes of plants
- 13 Popular names
- 14.5 Botanical literature
  - Including works on herbals
- History
- 15 General works
- 21.A-Z By region or country, A-Z
- Biography
- 26 Collective
- 31.A-Z Individual, A-Z
  - e. g.
  - 31.G8 Gray
  - 31.T7 Torrey
- 35 Directories
- General works and treatises
  - Cf. QK91 Works of Linnaeus (Botany only)
- 41 Early through 1753
- 45 1754-1969
- 45.2 1970-
- 46 Special aspects of the subject as a whole
- 46.5.A-Z Special topics, A-Z
- 46.5.A47 Aerial photography
- 46.5.B66 Botanizers
- Botany for gardeners see QK50
- 46.5.D58 Diversity, Plant (General)
  - Including centers of plant diversity
  - For plant diversity conservation see QK86+
  - For local see QK102+
- 46.5.E4 Electronic data processing
- 46.5.F67 Forensic botany
- 46.5.H85 Human-plant relationships
- 46.5.M3 Mathematical models
- 46.5.S7 Statistical methods
- 46.5.V44 Vegetation monitoring
  - For local see QK108+
- 47 Textbooks
- 48 Handbooks, tables, formulas, etc.
- 49 Juvenile works
- 50 Popular works
  - For plants of individual regions or countries see QK108+
- 50.5 Botany as a profession. Vocational guidance
- Study and teaching. Research
- 51 General works

- Study and teaching. Research -- Continued
- 51.2.A-Z By region or country, A-Z  
Each region or country subarranged by author
- 52 Outlines, syllabi
- 52.5 Problems, exercises, examinations
- 52.55 Activity programs
- 52.6 Experiments
- 53 Laboratory manuals  
Cf. QK673 Anatomy and histology
- Audiovisual aids
- 54 General works
- 55 Charts
- 57 Plant analysis blanks
- 61 Collection and preservation
- 61.4 Plant prints
- 62 Vegetation surveys
- 63 Vegetation mapping  
For geographic treatment see QK108+
- Botanical gardens  
Class here descriptions, catalogs, and administrative reports only. Class other serial publications in QK1  
Cf. QK479+ Arboretums
- 71 General works
- 73.A-Z By region or country, A-Z  
*Under each country:*  
.x *General works*  
.x2A-.x2Z *Individual. By name, A-Z*
- Herbariums  
Class here descriptions, catalogs, and administrative reports only. Class other serial publications in QK1
- 75 General works
- 76.A-Z By region or country, A-Z
- 77.A-Z Individual. By name, A-Z
- Laboratories  
Class here descriptions, catalogs, and administrative reports only. Class other serial publications in QK1
- 78 General works
- 78.5.A-Z By region or country, A-Z  
Subarrange each country by Table Q6
- Museums. Exhibitions  
Class here descriptions, catalogs, and administrative reports only. Class other serial publications in QK1
- 79 General works
- 79.5.A-Z By region or country, A-Z  
Subarrange each country by Table Q5
- 81 Addresses, essays, lectures
- 83 Plant lore  
Cf. GR780+ Folklore
- National plants. Official plants  
Including state, provincial, etc. plants
- 84.8 General works  
By region or country
- 85 United States
- 85.3.A-Z Other regions or countries, A-Z
- 85.5 Wild flowers  
Prefer classification by area

- Plant conservation. Rare plants. Endangered plants  
 Including plant diversity conservation and remnant vegetation conservation and management
- 86.A1 General works  
 86.A5-Z By region or country, A-Z  
 86.4 Plant reintroduction  
 86.5 Applied ethnobotany
- Relict plants  
 86.7 General works  
 86.73.A-Z By region or country, A-Z
- 87 Miscellany and curiosa  
 89 Pressed plants with text. Bound herbaria
- Classification  
 91 Works of Linnaeus (Botany only)  
 92 Linnaean system (Minor works)  
 Natural systems  
 Not to be used for systems developed after Darwin  
 93 General works, treatises, and textbooks  
 94 Minor works  
 Systematics and taxonomy. Philosophy and methodology  
 95 General works  
 95.4 Chemotaxonomy  
 For geographic treatment see QK108+  
 For systematic treatment see QK494.5.A+
- 95.6 Molecular aspects  
 96 Nomenclature  
 97 Comprehensive systematic works  
 97.5 Identification  
 For geographic treatment see QK108+
- 98 Pictorial works and atlases (of plants)  
 Prefer classification by area  
 Atlases of botanical maps are classed in class G
- Botanical illustration and artists  
 Cf. QK98 Pictorial works
- History  
 98.15 General works  
 98.16.A-Z By region or country, A-Z
- Biography  
 98.18 Collective  
 98.183.A-Z Individual, A-Z  
 Including collections of their illustrations
- 98.2 General works  
 98.24 Technique  
 98.3 Catalogs
- 98.4 Useful plants. Permaculture plants  
 98.4.A1 General works, treatises, and textbooks  
 98.4.A5-Z By region or country, A-Z
- Economic botany see SB107+
- Edible plants  
 Including edible wild plants  
 Cf. SB175+ Food crops
- 98.5.A1 General works, treatises, and textbooks  
 98.5.A5-Z By region or country, A-Z
- Dye plants (General)  
 Cf. SB285+ Culture
- 98.7.A1 General works, treatises, and textbooks  
 98.7.A5-Z By region or country, A-Z

- Medical botany (General)
  - Cf. RS164 Drugs of the vegetable kingdom
  - Cf. SB293 Culture
- 99.A1 General works, treatises, and textbooks
- 99.A5-Z By region or country, A-Z
- Poisonous plants
  - Cf. SB617+ Poisonous plants as pests
- 100.A1 General works, treatises, and textbooks
- 100.A5-Z By region or country, A-Z
- Geographical distribution. Phytogeography
- 101 General works, treatises, and textbooks
- Aquatic flora (General)
  - For geographic treatment see QK108+
  - Cf. QK564+ Algae
- 102 General works
- 103 Marine flora (General)
- 105 Freshwater flora (General)
- Topographical divisions
- 108 Special parts of the world
  - Including British Empire
- America
- 109 General works
- North America
- 110 General works
- 112 Illustrations of North American flora
- United States
  - Including East (U.S.)
- 115 General works
- By region
- Northeast
- 117 General works
- 118 Popular handbooks
- 121 New England
- 121.5 Saint John River and Valley (Me. and N.B.)
- Atlantic States. Atlantic Coast
- 122 General works
- 122.3 Appalachian Mountains
- 122.5 Middle Atlantic States
- 122.8 Chesapeake Bay
- 122.85 Potomac River
- 122.9 South Atlantic States
- Southern States
- 124 General works
- Southeast
  - Cf. QK122.9 South Atlantic States
- 125 General works
- 125.35 Blue Ridge Mountains
- 125.4 Great Smoky Mountains
- 125.8 Gulf States
- 128 Middle West
- 130 Great Lakes
- West (U.S.)
- 133 General works
- 134 Ozark Mountains
- 135 Great Plains
- 139 Rocky Mountains Region

## Geographical distribution. Phytogeography

## Topographical divisions

## America

## North America

## United States

## By region

## West (U.S.) -- Continued

- 141 Great Basin
- Southwest
- 142 General works
- 142.2 Chihuahuan Desert
- 142.3 Mojave Desert
- 142.4 Sonoran desert
- Sierra Nevada
- 142.7 General works
- 142.75 Tahoe, Lake, Watershed (Calif. and Nev.)
- 143 Pacific coast
- Northwest
- 144 General works
- 144.2 Columbia Basin
- By state
- 145 Alabama
- 146 Alaska
- 147 Arizona
- 148 Arkansas
- 149 California
- 150 Colorado
- 151 Connecticut
- 152 Delaware
- 153 District of Columbia
- 154 Florida
- 155 Georgia
- Hawaii see QK473.H4
- 156 Idaho
- 157 Illinois
- 159 Indiana
- 160 Iowa
- 161 Kansas
- 162 Kentucky
- 163 Louisiana
- 164 Maine
- 165 Maryland
- 166 Massachusetts
- 167 Michigan
- 168 Minnesota
- 169 Mississippi
- 170 Missouri
- 171 Montana
- 172 Nebraska
- 173 Nevada
- 174 New Hampshire
- 175 New Jersey
- 176 New Mexico
- 177 New York
- 178 North Carolina
- 179 North Dakota

## Geographical distribution. Phytogeography

## Topographical divisions

## America

## North America

## United States

## By state -- Continued

- 180 Ohio
- 181 Oklahoma
- 182 Oregon
- 183 Pennsylvania
- 184 Rhode Island
- 185 South Carolina
- 186 South Dakota
- 187 Tennessee
- 188 Texas
- 189 Utah
- 190 Vermont
- 191 Virginia
- 192 Washington
- 193 West Virginia
- 194 Wisconsin
- 195 Wyoming. Yellowstone Park

## Canada

201 General works

203.A-Z By region or province, A-Z

For regions that include both the United States and Canada see QK115+

## Latin America

205 General works

211 Mexico

## Central America

215 General works

216 Belize

217 Costa Rica

218 Guatemala

219 Honduras

220 Nicaragua

221 Panama

222 El Salvador

## West Indies. Caribbean area

225 General works

226 Bahamas

227 Cuba

## Hispaniola

227.7 General works

227.8 Dominican Republic

228 Haiti

229 Jamaica

230 Puerto Rico

231.A-Z Other, A-Z

231.A48 Antigua and Barbuda

231.A5 Antilles, Lesser

231.A78 Aruba

231.B3 Barbados

British Virgin Islands see QK231.V53

231.C35 Cayman Islands

231.C87 Curaçao

## Geographical distribution. Phytogeography

## Topographical divisions

## America

## Latin America

## West Indies. Caribbean area

## Other, A-Z -- Continued

- 231.D59                   Dominica
- Dominican Republic see QK227.8
- 231.F74                   French West Indies
- 231.G73                   Grenada
- 231.G8                    Guadeloupe
- 231.M35                  Martinique
- 231.N4                    Netherlands Antilles
- 231.S3                    Saint Bartholomew
- 231.S33                  Saint Kitts and Nevis
- 231.S34                  Saint Lucia
- 231.S35                  Saint Martin
- 231.S38                  Saint Vincent and the Grenadines
- 231.T75                  Trinidad and Tobago
- 231.T87                  Turks and Caicos Islands
- United States Virgin Islands see QK231.V55
- Virgin Islands
  - 231.V5                    General
  - 231.V53                  British Virgin Islands
  - 231.V55                  United States Virgin Islands
- 232                        Bermuda
- South America
  - 241                        General works
  - 261                        Argentina
  - 262                        Bolivia
  - 263                        Brazil
  - 264                        Chile
  - 265                        Colombia
  - 266                        Ecuador
  - Galapagos see QK473.G2
  - Guiana
    - 266.8                    General works
    - 267                        Guyana (British Guiana)
    - 268                        Suriname (Dutch Guiana)
    - 269                        French Guiana
  - 270                        Paraguay
  - 271                        Peru
  - 272                        Uruguay
  - 273                        Venezuela
  - 274                        Falkland Islands
- Atlantic Ocean Islands
  - 275.A1                    General works
  - 275.A3-Z                 By island or group of islands, A-Z
  - 275.A9                    Azores
  - Bermuda see QK232
  - Canary Islands see QK422
  - 275.C4                    Cabo Verde
  - Falkland Islands see QK274
  - 275.F37                  Faroe Islands
  - 275.M3                    Madeira
  - 275.S27                  Saint Helena



## Geographical distribution. Phytogeography

## Topographical divisions

## Atlantic Ocean Islands

By island or group of islands, A-Z -- Continued

275.S3

Salvages Islands

275.S68

South Orkney Islands

275.T74

Tristan da Cunha Island

## Europe

281

General works

Zone and physiographic divisions

297

Alpine

303.A-Z

Other, A-Z

By region or country

British Isles. Great Britain. England

306

General works

307

Ireland

307.5

Northern Ireland

308

Scotland

309

Wales

310

Austria

311

Hungary

313

France

313.5

Monaco

314

Germany

Including East and West Germany

(314.2)

East Germany

see QK314

314.5

Mediterranean Region

Including African coast

315

Greece

316

Italy

316.5

Malta

317

Benelux (Low Countries)

318

Belgium

319

Luxembourg

320

Netherlands (Holland)

321

Russia. Soviet Union. Russia (Federation)

Cf. QK372+ Former Soviet areas of Asia

Cf. QK375+ Russia (Federation) in Asia

321.5

Belarus

321.6

Moldova

321.7

Ukraine

322

Poland

323

Finland

324

Scandinavia (General)

Including Lapland

325

Denmark

325.5

Iceland

326

Norway

327

Sweden

Iberian Peninsula

328

General works

329

Spain

329.2

Gibraltar

330

Portugal

331

Switzerland

## Geographical distribution. Phytogeography

## Topographical divisions

## Europe

## By region or country -- Continued

## Balkan Peninsula

Including Turkey in Europe

- 332 General works
- 332.5 Bosnia and Hercegovina
- 333 Bulgaria
- 334 Croatia
- 334.5 Macedonia (Republic). North Macedonia
- North Macedonia see QK334.5
- 335 Romania
- Serbia see QK336
- 335.5 Slovenia
- 336 Yugoslavia
- Including Montenegro and Serbia
- 339.A-Z Other European regions, islands, or countries, A-Z
- 339.A5 Albania
- Alps see QK297
- 339.A54 Andorra
- 339.B34 Baltic States
- 339.B47 Bessarabia (Moldova and Ukraine)
- 339.C35 Carpathian Mountains
- 339.C45 Central Europe
- 339.C5 Channel Islands
- 339.C65 Constance, Lake of
- 339.C8 Czechoslovakia. Czech Republic
- 339.E37 Eastern Europe
- 339.E8 Estonia
- 339.J85 Jura Mountains (France and Switzerland)
- 339.K67 Kosovo (Republic)
- 339.L3 Latvia
- 339.L46 Liechtenstein
- 339.L5 Lithuania
- Mediterranean Region see QK314.5
- 339.N67 Northern Europe
- 339.P95 Pyrenees (France and Spain)
- 339.S55 Slovakia
- Yugoslavia see QK336

## Asia

- 341 General works
- 352 Afghanistan
- Arabian Peninsula
- 353 General works
- 353.2 Bahrain
- 353.3 Kuwait
- 353.4 Oman
- 353.5 Qatar
- 353.6 Saudi Arabia
- 353.7 United Arab Emirates
- 353.8 Yemen
- 354 Baluchistan
- Cf. QK358.5 Baluchistan in Pakistan
- China
- 355 General works

## Geographical distribution. Phytogeography

## Topographical divisions

## Asia

## China -- Continued

355.5

Hong Kong

355.6

Macau

356

Taiwan

357

Mongolia

## South Asia. British Indian Empire

357.5

General works

358

India

358.5

Pakistan

Including Baluchistan (Province)

358.7

Bangladesh

359

Sri Lanka

359.5

Nepal

359.6

Bhutan

## Southeast Asia

For Malay Peninsula see QK365

360

General works

360.5

Burma. Myanmar

361

Cambodia. Laos. Vietnam. French Indonesia

364

Thailand

365

Malaysia

Including Malay Peninsula and Singapore

For Sabah and Sarawak see QK367

## Malay Archipelago

365.5

General works

366

New Guinea

Including Papua (Indonesia) and Papua New Guinea

367

Indonesia

Including Borneo

For Papua see QK366

Brunei see QK367

368

Philippines

## Japan

For Karafuto see QK375.2

369

General works

369.3

Ryukyu Islands

Including Okinawa-ken

370

Korea

371

Iran

## Former Soviet areas of Asia

Cf. QK377 Caucasus

372

General works

## Central Asia

374

General works

374.3

Kazakhstan

374.4

Kyrgyzstan

374.5

Tajikistan

374.6

Turkmenistan

374.7

Uzbekistan

## Russia (Federation) in Asia. Siberia. Russian Far East

375

General works

375.2

Sakhalin

## Geographical distribution. Phytogeography

## Topographical divisions

## Asia -- Continued

- 376 Asia Minor
  - Including Turkey in Asia
- 377 Caucasus
  - Including Armenia, Azerbaijan, Georgia (Republic)
- 377.3 Cyprus
- 377.5 Syria
- 377.7 Lebanon
- 378 Israel. Palestine
- 378.5 Jordan
- 379 Iraq
  - Bahrain see QK353.2
  - Kuwait see QK353.3
  - Oman see QK353.4
  - Qatar see QK353.5
  - Saudi Arabia see QK353.6
  - United Arab Emirates see QK353.7
  - Yemen see QK353.8
- 379.5.A-Z Other Asian regions or countries, A-Z
  - 379.5.E38 East Asia
  - 379.5.H55 Himalaya Mountains
  - 379.5.M36 Mannar, Gulf of
  - 379.5.M53 Middle East
  - 379.5.P47 Persian Gulf
- 380 Arab countries
- Africa
  - 381 General works
  - By region or country
    - 390 North Africa
    - 391 Tropical Africa
    - Eastern Africa
      - Cf. QK401 East Africa
    - 392 General works
    - 392.4 Northeast Africa
    - 393 West Africa
    - 393.5 Central Africa
      - Cf. QK400 Former British Central Africa
    - 394 Southern Africa
    - 395 Ethiopia. Eritrea
    - Former British possessions
      - 395.8 General works
      - 396 South Africa
      - 400 Central Africa (General)
      - 401 East Africa (General)
      - 402.A-Z Other special, A-Z
        - 402.B6 Botswana
        - 402.E77 Eswatini
        - 402.G3 Gambia
        - 402.G5 Ghana
        - 402.K4 Kenya
        - 402.L48 Lesotho
        - 402.M28 Malawi
        - Mauritius see QK429.M3
        - 402.N34 Namibia

## Geographical distribution. Phytogeography

## Topographical divisions

## Africa

## By region or country

## Former British possessions

## Other special, A-Z -- Continued

- 402.N5 Nigeria  
 402.R5 Rhodesia, Southern. Zimbabwe  
 402.S5 Sierra Leone  
 Somalia see QK415  
 (402.S8) Swaziland  
           see QK402.E77  
 402.U2 Uganda  
 402.Z3 Zambia  
 Zimbabwe see QK402.R5  
 Mediterranean Region (General) see QK314.5  
 403 Egypt  
 404 Sudan  
 404.5 South Sudan  
 Former French possessions  
 405 Algeria  
 406 Tunisia  
 407 Madagascar  
 408 Senegal. Senegambia  
 409 Sahara  
 410.A-Z Other special, A-Z  
 410.B45 Benin  
 410.B85 Burkina Faso  
           Cameroon see QK412  
 410.C4 Central African Republic  
 410.C5 Chad  
 (410.D3) Dahomey  
           see QK410.B45  
 410.D55 Djibouti  
 410.G3 Gabon  
 410.G84 Guinea  
 410.I8 Ivory Coast. Côte d'Ivoire  
 410.M38 Mauritania  
           Réunion see QK429.M27  
 410.T64 Togo  
 Former German possessions  
 411 Tanzania  
 411.5 Rwanda  
 412 Cameroon  
 413 Namibia. Southwest Africa  
 (414) Eritrea  
           see QK395  
 415 Somalia  
 416 Zaire. Congo (Democratic Republic)  
 416.4 Congo (Brazzaville)  
 417 Liberia  
 418 Morocco  
 419 Mozambique  
 420 Angola  
 420.5 Sao Tome and Principe  
 421 Guinea-Bissau

## Geographical distribution. Phytogeography

## Topographical divisions

## Africa

## By region or country -- Continued

- 422 Canary Islands  
 423 Western Sahara  
 423.5 Equatorial Guinea  
     Including Fernando Po  
 424 Libya
- Indian Ocean islands
- 428 General works  
 429.A-Z By island or group of islands, A-Z  
 429.A44 Aldabra Islands  
 429.C4 Christmas Island. Kiritimati  
 429.C6 Comoros  
 429.E63 Eparses Islands  
     Madagascar see QK407  
 429.M24 Maldives  
 429.M27 Mascarene Islands  
     Including Réunion  
 429.M3 Mauritius  
 429.M34 Mayotte  
 429.P74 Prince Edward Islands  
     Réunion see QK429.M27  
 429.S4 Seychelles  
 429.S6 Sokotra
- Australia
- 431 General works  
 445 New South Wales  
     Including Australian Capital Territory  
 Norfolk Island see QK473.N67  
 Northern Territory  
 Queensland  
 South Australia  
 Tasmania  
 Victoria  
 Western Australia
- New Zealand and adjacent islands
- Pacific islands. Oceania
- 471 General works  
 473.A-Z By island or group of islands, A-Z  
     Cf. QK463 New Zealand and adjacent islands
- 473.B6 Bonin Island  
 473.C48 Chuuk (Micronesia)  
 473.C55 Clipperton Island  
 473.E17 Easter Island  
 473.F5 Fiji Islands  
 473.F74 French Polynesia  
 473.G2 Galapagos Islands  
 473.G9 Guam  
 473.H4 Hawaiian Islands  
 473.J8 Juan Fernandez (Islands)  
 473.K55 Kiribati  
 473.K6 Kommander Islands  
 473.M3 Makatea  
 473.M34 Mariana Islands

## Geographical distribution. Phytogeography

## Topographical divisions

## Pacific islands. Oceania

## By island or group of islands, A-Z -- Continued

- 473.M36 Marshall Islands
- 473.M5 Micronesia
- 473.M53 Midway Islands
- 473.N32 Nauru
- 473.N4 New Caledonia
- New Guinea see QK366
- Niihau see QK473.H4
- 473.N57 Niue (Island)
- 473.N67 Norfolk Island
- Oceania see QK471+
- Okinawa Islands see QK369.3
- 473.P3 Palmyra Island
- 473.P5 Pitcairn Islands
- 473.P75 Polynesia
- 473.P78 Ponape Island
- 473.R27 Raiatea
- 473.R3 Rarotonga
- 473.S3 Samoan Islands
- 473.S6 Society Islands (French Polynesia)
- 473.T3 Tahiti
- 473.T6 Tonga
- 473.T88 Tuvalu
- 473.V25 Vanuatu
- 473.W33 Wake Island

## Polar regions

- 473.5 General works
- Arctic regions
- 474 General works
- 474.2 Greenland
- 474.3 Svalbard
- 474.4 Antarctica
- 474.5 Tropics

Cf. QK391 Tropical Africa

Cf. QK936 Tropical plant ecology

## Spermatophyta. Phanerogams

For general works, see general botany

## Trees and shrubs

Cf. SD434+ Timber trees

- 474.8 Periodicals. Societies. Serials
- 474.83 Collected works (nonserial)
- 474.85 Congresses
- 474.87 Dictionaries and encyclopedias
- 475 General works, treatises, and textbooks
- 475.6 Pictorial works. Atlases
- 475.8 Juvenile works
- 476 Study and teaching. Research
- 477 Special aspects of the subject as a whole
  - For historic trees, see D
  - For folklore of trees see GR785
  - For national and state trees see QK84.8+
  - For remarkable trees see SD383+
- 477.2.A-Z Special topics, A-Z

- Spermatophyta. Phanerogams  
 Trees and shrubs  
 Special topics, A-Z -- Continued
- 477.2.A6 Annual rings  
     Cf. CC78.3 Archaeology  
     Cf. QC884.2.D4 Dendroclimatology  
 Flowering see QK830  
 Flowers see QK653+
- 477.2.I4 Identification  
 Rings see QK477.2.A6  
 Roots see QK644
- Arboretums. Fruticeta
- 479 General works  
 480.A-Z By region or country, A-Z  
     *Under each country:*  
     .x General works  
     .x2A-.x2Z Local or individual. By name, A-Z
- (481-493.5) Local  
     see QK108+
- Systematic divisions  
 Gymnosperms  
     Including orders and higher (not A-Z)
- 494 General works  
 494.5.A-Z By family, A-Z  
     Class species and genera by family  
     Abietaceae see QK494.5.P66  
     Araucariaceae  
     Cephalotaxaceae  
     Coniferae see QK494  
     Coniferales see QK494  
     Cupressaceae  
     Cycadaceae  
     Ephedraceae  
     Ginkgoaceae  
     Gnetaceae  
     Phyllocladaceae  
     Pinaceae  
     Podocarpaceae  
     Sciadopityaceae (Japanese umbrella pine)  
     Stangeriaceae  
     Taxaceae  
     Taxodiaceae  
     Welwitschiaceae  
     Zamiaceae
- Angiosperms
- 495.A1 General works, treatises, and textbooks  
     For geographical treatment see QK108+  
     For works limited to anatomy, morphology, and physiology see QK640+
- 495.A12 Dicotyledons  
     Including orders and higher (not A-Z)
- 495.A14 Monocotyledons  
     Including orders and higher (not A-Z)
- 495.A15-Z By family, A-Z  
     Class species and genera by family
- 495.A1655 Acanthaceae  
 495.A17 Aceraceae (Maple)



## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

- 495.A175 Achariaceae  
 495.A176 Achatocarpaceae  
 495.A177 Actinidiaceae  
 495.A178 Adoxaceae (Moschatel)  
 495.A185 Aextoxicaceae  
 495.A24 Agapanthaceae  
 (495.A26) Agavaceae  
     see QK495.A83  
 495.A32 Aizoaceae (Ice plant)  
 495.A34 Akaniaceae  
 495.A36 Alangiaceae  
 495.A4 Alismataceae (Water plantain)  
 495.A42 Alliaceae (Onion; garlic; leek)  
 Aloaceae see QK495.A42  
 495.A48 Amaranthaceae (Amaranth)  
 495.A484 Amaryllidaceae (Amaryllis)  
 495.A485 Amborellaceae  
 495.A498 Anacardiaceae (Cashew)  
 495.A499 Ancistrocladaceae  
 495.A55 Anisophylleaceae  
 495.A6 Annonaceae (Pawpaw)  
 (495.A65) Aphyllanthaceae  
     see QK495.A83  
 Apiaceae see QK495.U48  
 495.A66 Apocynaceae (Dogbane)  
 495.A667 Aponogetonaceae  
 495.A67 Aquifoliaceae (Holly)  
 495.A685 Araceae (Arum)  
 495.A6853 Araliaceae (Ginseng)  
 Arecaceae see QK495.P17  
 495.A688 Aristolochiaceae (Dutchman's pipe)  
 495.A815 Asclepiadaceae (Milkweed)  
 495.A83 Asparagaceae (Agaves. Asparagus. Hyacinths. Yuccas)  
 495.A835 Asphodelaceae  
 Asteraceae see QK495.C74  
 495.A9 Austrobaileyaceae  
 495.B2 Balanopaceae  
 495.B23 Balanophoraceae  
 495.B25 Balsaminaceae (Touch-me-not)  
 495.B256 Basellaceae (Madeira vine)  
 495.B33 Bataceae  
 495.B4 Begoniaceae (Begonia)  
 495.B45 Berberidaceae (Barberry)  
 495.B56 Betulaceae (Birch)  
 495.B62 Bignoniaceae (Catalpa)  
 495.B63 Bixaceae  
 (495.B7) Bombacaceae  
     see QK495.M27  
 495.B73 Boraginaceae (Borage)  
 Brassicaceae see QK495.C9  
 495.B75 Bretschneideraceae  
 495.B76 Bromeliaceae (Bromelia)

## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

495.B78	Brunelliaceae
495.B785	Bruniaceae
495.B786	Brunoniaceae (Blue-pincushion)
495.B7865	Buddlejaceae
495.B79	Burmanniaceae
495.B8	Burseraceae (Incense tree)
495.B83	Butomaceae (Flowering rush)
495.B85	Buxaceae (Box)
495.B9	Byblidaceae
495.C11	Cactaceae (Cactus)
495.C1153	Caesalpiniaceae
495.C1155	Callitrichaceae (Water starwort)
495.C15	Calycanthaceae (Spicebush)
495.C17	Calyceraceae
495.C18	Campanulaceae (Bellflower)
	Candolleaceae see QK495.S87
495.C182	Canellaceae
495.C194	Cannabaceae
495.C196	Cannaceae (Canna)
	Capparaceae see QK495.C198
495.C198	Capparidaceae (Spiderflower)
495.C199	Caprifoliaceae (Honeysuckle)
495.C1995	Cardiopteridaceae
495.C1997	Caricaceae (Papaya)
495.C2	Caryocaraceae
495.C24	Caryophyllaceae (Pink)
495.C27	Casuarinaceae (Beefwood)
495.C385	Celastraceae (Staff tree)
495.C39	Centrolepidaceae
495.C395	Cephalotaceae
495.C4	Ceratophyllaceae (Hornwort)
495.C43	Cercidiphyllaceae
495.C46	Chenopodiaceae (Goosefoot)
495.C47	Chloranthaceae
495.C48	Chrysobalanaceae
495.C5	Cistaceae (Rockrose)
495.C55	Clethraceae
	Clusiaceae see QK495.G87
495.C555	Cneoraceae
495.C6	Cochlospermaceae
495.C65	Columelliaceae
495.C7	Combretaceae (White mangrove)
495.C73	Commelinaceae (Spiderwort)
495.C74	Compositae (Sunflower)
495.C76	Connaraceae
495.C78	Convolvulaceae (Morning-glory)
495.C783	Coriariaceae
495.C785	Cornaceae (Dogwood)
495.C786	Corsiaceae
495.C787	Corynocarpaceae
495.C79	Crassulaceae (Stonecrop)
495.C797	Crossosomataceae

## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

495.C9	Cruciferae (Mustard)
495.C93	Crypteroniaceae
495.C96	Cucurbitaceae (Gourd)
495.C965	Cunoniaceae (Lightwood)
495.C967	Cuscutaceae (Dodder)
495.C97	Cyanastraceae
495.C975	Cyclanthaceae (Panama-hat palm)
495.C979	Cymodoceaceae
495.C98	Cynomoriaceae
495.C997	Cyperaceae (Sedge)
495.C9973	Cyrillaceae (Leatherwood)
495.D325	Daphniphyllaceae
495.D33	Datisaceae (Durango root)
495.D34	Davidiaceae
495.D35	Davidsoniaceae
495.D4	Degeneriaceae
495.D42	Desfontainiaceae
495.D43	Dialypetalanthaceae
495.D435	Diapensiaceae
495.D44	Dichapetalaceae
495.D45	Didiereaceae
495.D46	Didymelaceae
495.D47	Dilleniaceae
495.D48	Dioncophyllaceae
495.D54	Dioscoreaceae (Yam)
495.D545	Dipentodontaceae
495.D56	Dipsacaceae (Teasel)
495.D564	Dipterocarpaceae
495.D67	Doryanthaceae
495.D76	Droseraceae (Sundew)
495.D9	Duckeodendraceae
495.D95	Dysphaniaceae
495.E25	Ebenaceae (Ebony)
495.E33	Elaeagnaceae
495.E35	Elaeocarpaceae
495.E37	Elatinaceae (Waterwort)
495.E44	Empetraceae (Crowberry)
495.E45	Epacridaceae
495.E64	Eremolepidaceae
495.E68	Ericaceae (Heath)
495.E685	Eriocaulaceae (Pipewort)
(495.E695)	Eriospermaceae see QK495.A83
495.E82	Erythroxyllaceae (Coca)
	Escalloniaceae see QK495.S3
	Eucalyptus see QK495.M9
495.E84	Eucommiaceae
495.E85	Eucryphiaceae
495.E9	Euphorbiaceae (Spurge)
495.E95	Eupomatiaceae
495.E96	Eupteleaceae
	Euryalaceae see QK495.T4

## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

	Fabaceae see QK495.L52
495.F14	Fagaceae (Beech; Oak)
495.F55	Flacourtiaceae
495.F58	Flagellariaceae
495.F6	Fouquieriaceae (Ocotillo)
495.F67	Frankeniaceae (Alkali heath)
495.G26	Garryaceae (Silktassel bush)
495.G27	Geissolomataceae
495.G35	Gentianaceae (Gentian)
495.G37	Geosiridaceae
495.G38	Geraniaceae (Geranium)
495.G4	Gesneriaceae (African violet)
495.G56	Globulariaceae
495.G65	Gomortegaceae
495.G655	Goodeniaceae
495.G74	Gramineae (Grass)
495.G745	Griselinaceae
495.G75	Grossulariaceae
495.G76	Grubbiaceae
495.G83	Gunneraceae
495.G87	Guttiferae (St. Johnswort)
495.G877	Gyrostemonaceae
495.H15	Haemodoraceae (Bloodwort)
495.H2	Haloragaceae (Water milfoil)
	Haloragidaceae see QK495.H2
495.H3	Hamamelidaceae (Witch hazel)
495.H35	Heliconiaceae
495.H38	Hemerocallidaceae (Daylily)
	Henriqueziaceae see QK495.R85
495.H42	Hernandiaceae
495.H5	Himantandraceae
495.H65	Hippocastanaceae (Horse chestnut)
495.H66	Hippocrateaceae
495.H67	Hippuridaceae (Mare's tail)
495.H7	Hoplestigmataceae
	Houmiriaceae see QK495.H8
495.H8	Humiriaceae
(495.H83)	Hyacinthaceae see QK495.A83
495.H84	Hydnoraceae
(495.H85)	Hydrocaryaceae see QK495.T66
495.H86	Hydrocharitaceae (Elodea)
495.H88	Hydrophyllaceae (Waterleaf)
495.H885	Hydrostachyaceae
495.H9	Hypoxidaceae
495.I25	Icacinaceae
495.I4	Illiciaceae (Anise tree)
495.I75	Iridaceae (Iris)
495.J85	Juglandaceae (Walnut)
495.J855	Julianiaceae
495.J87	Juncaceae (Rush)

## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

495.J875	Juncaginaceae (Arrow grass)
495.K7	Krameriaceae
	Labiatae see QK495.L25
495.L152	Lacistemaceae
495.L153	Lactoridaceae
495.L25	Lamiaceae (Mint)
495.L32	Lardizabalaceae
495.L375	Lauraceae (Laurel)
495.L42	Lecythidaceae (Brazil nut)
495.L46	Leeaceae
495.L52	Legumes
	Cf. QK495.C1153 Caesalpiniaceae
	Cf. QK495.M545 Mimosaceae
495.L524	Leitneriaceae (Corkwood)
495.L527	Lemnaceae (Duckweed)
495.L528	Lennoaceae
495.L53	Lentibulariaceae (Bladderwort)
495.L72	Liliaceae (Lily)
495.L73	Limnanthaceae (Meadowfoam)
495.L74	Linaceae (Flax)
495.L76	Lissocarpaceae
495.L78	Loasaceae (Evening star)
495.L785	Loganiaceae (Butterfly bush)
495.L87	Loranthaceae (Mistletoe)
495.L88	Lowiaceae
495.L9	Lythraceae (Crepe myrtle)
495.M24	Magnoliaceae (Magnolia)
495.M245	Malesherbiaceae
495.M26	Malpighiaceae
495.M27	Malvaceae (Mallow)
495.M28	Marantaceae (Arrowroot)
495.M285	Marograviaceae
495.M287	Martyniaceae (Devil's claw)
495.M3	Mayacaceae (Bogmoss)
495.M5	Medusagynaceae
495.M51	Medusandraceae
495.M5135	Melanthiaceae
495.M514	Melastomataceae (Meadow beauty)
495.M52	Meliaceae (Mahogany)
495.M524	Meliantaceae (Honey bush)
495.M537	Menispermaceae (Moonseed)
495.M5375	Menyanthaceae
495.M545	Mimosaceae
495.M55	Misodendraceae
495.M6	Molluginaceae
495.M67	Monimiaceae (Voldo)
495.M73	Moraceae (Mulberry)
495.M74	Moringaceae (Horseradish tree)
495.M78	Musaceae (Banana)
	Musales see QK495.A14
495.M8	Myoporaceae
495.M83	Myricaceae (Wax myrtle)

## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

495.M85	Myristicaceae (Nutmeg)
495.M86	Myrothamnaceae
495.M87	Myrsinaceae
495.M9	Myrtaceae (Myrtle)
495.N3	Naiadaceae
495.N33	Nelumbonaceae
495.N35	Nepenthaceae
495.N37	Neuradaceae
495.N58	Nitrariaceae
495.N6	Nolanaceae
495.N9	Nyctaginaceae (Four-o'clock)
495.N97	Nymphaeaceae (Waterlily)
495.N975	Nyssaceae (Sour gum)
495.O3	Ochnaceae
495.O35	Olacaceae (Tallow-wood)
495.O44	Oleaceae (Olive)
495.O446	Oliniaceae
495.O46	Onagraceae (Evening-primrose)
495.O62	Opiliaceae
495.O64	Orchidaceae (Orchid)
495.O74	Orobanchaceae (Broomrape)
495.O98	Oxalidaceae (Wood sorrel)
495.P15	Paeoniaceae
495.P17	Palmae (Palm)
495.P175	Pandaceae
495.P18	Pandanaceae (Screw pine)
495.P22	Papaveraceae (Poppy)
	Papaverales see QK495.A12
495.P28	Passifloraceae (Passionflower)
495.P42	Pedaliaceae (Benne)
495.P43	Penaeaceae
495.P44	Pentaphragmataceae
495.P445	Pentaphragmataceae
	Peperomiaceae see QK495.P67
495.P446	Peridiscaceae
495.P45	Philydraceae
495.P453	Phrymaceae (Lopseed)
495.P454	Phytolaccaceae (Poke)
495.P5	Picrodendraceae
495.P67	Piperaceae (Pepper)
495.P7	Pittosporaceae
495.P714	Plantaginaceae (Plantain)
495.P72	Platanaceae (Sycamore)
495.P725	Plumbaginaceae (Leadwort)
	Poaceae see QK495.G74
495.P74	Podostemaceae (Riverweed)
495.P77	Polemoniaceae (Phlox)
495.P775	Polygalaceae (Milkwort)
495.P78	Polygonaceae (Buckwheat)
495.P783	Pontederiaceae (Pickerelweed)
495.P8	Portulacaceae
495.P83	Posidoniaceae

## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

	Potaliaceae see QK495.L785
495.P85	Potamogetonaceae (Pondweed)
495.P95	Primulaceae (Primrose)
495.P957	Proteaceae (Silk oak)
495.P9575	Ptaeroxylaceae
495.P958	Punicaceae (Pomegranate)
495.P997	Pyrolaceae
495.Q5	Quiinaceae
495.R15	Rafflesiaceae
	Ranales see QK495.A12
495.R215	Ranunculaceae (Buttercup)
	Ranunculales see QK495.A12
495.R3	Rapateaceae
495.R4	Resedaceae (Mignonette)
495.R42	Restionaceae
495.R45	Rhamnaceae (Coffeeberry)
495.R46	Rhizophoraceae (Mangrove)
	Rhoeadales see QK495.A12
495.R465	Rhoipteleaceae
495.R468	Roridulaceae
495.R78	Rosaceae (Rose)
495.R85	Rubiaceae (Madder)
495.R956	Ruppiaceae
495.R98	Rutaceae (Citrus)
495.S15	Sabiaceae
495.S16	Salicaceae (Willow)
495.S165	Salvadoraceae (Toothbrush tree)
495.S18	Santalaceae (Sandalwood)
495.S19	Sapindaceae (Soapberry)
495.S2	Sapotaceae (Chicle)
495.S225	Sarcolaenaceae
495.S227	Sarcospermataceae
495.S23	Sargentodoxaceae
495.S24	Saraceniaceae (Pitcher plant)
495.S27	Saururaceae (Lizard's-tail)
495.S3	Saxifragaceae (Saxifrage)
495.S35	Scheuchzeriaceae
495.S353	Schisandraceae (Bay-star vine)
	Scitamineae see QK495.A14
495.S43	Scrophulariaceae (Figwort; snapdragon)
495.S45	Scyphostegiaceae
495.S47	Scytometalaceae
495.S59	Simaroubaceae (Tree of heaven)
495.S62	Siparunaceae
495.S65	Smilacaceae
495.S7	Solanaceae (Nightshade)
495.S74	Sonneratiaceae
495.S745	Sparganiaceae (Bar-reed)
495.S7455	Sphaerosepalaceae
495.S7456	Sphenocleaceae
495.S76	Stachyuraceae
495.S765	Stackhousiaceae

## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

495.S77	Staphyleaceae (Bladdernut)
495.S78	Stemonaceae
495.S8	Sterculiaceae (Cacao)
495.S85	Strasburgeriaceae
495.S87	Stylidiaceae
495.S9	Styracaceae (Silverbell tree)
495.S95	Symplocaceae (Sweetleaf)
495.T3	Taccaceae
495.T35	Tamaricaceae (Tamarisk)
495.T355	Tetracentraceae
495.T4	Theaceae (Tea)
495.T45	Theligonaceae
(495.T455)	Themidaceae
	see QK495.A83
495.T457	Theophrastaceae (Joewood)
495.T46	Thurniaceae
495.T48	Thymelaeaceae
495.T5	Tiliaceae (Linden)
495.T6	Tovariaceae
495.T66	Trapaceae (Water chestnut)
495.T7	Tremandraceae
495.T73	Trigoniaceae
495.T735	Trilliaceae
495.T74	Trimeniaceae
495.T745	Triuridaceae
495.T75	Trochodendraceae
495.T77	Tropaeolaceae (Nasturtium)
495.T8	Turneraceae
495.T9	Typhaceae (Cattail)
495.U4	Ulmaceae (Elm)
495.U48	Umbelliferae (Parsley)
495.U7	Urticaceae (Nettle)
495.V3	Valerianaceae
495.V4	Velloziaceae
495.V48	Verbenaceae (Verbena)
495.V5	Violaceae (Violet)
495.V53	Viscaceae
495.V55	Vitaceae (Grape)
495.V6	Vochysiaceae
495.W5	Winteraceae
495.X3	Xanthorrhoeaceae
495.X9	Xyridaceae (Yelloweyed grass)
495.Z3	Zannichelliaceae
495.Z65	Zingiberaceae (Ginger)
495.Z7	Zosteraceae
495.Z9	Zygophyllaceae (Creosote-bush)

## Cryptogams

Including Archegoniatae

For bacteria see QR1+

504	Periodicals, societies, congresses, serial publications
505	General works, treatises, and textbooks
505.5	Juvenile works



- Cryptogams -- Continued
- 506 Anatomy, physiology, etc.
- 507 Classification. Systematic works
- Local
- 509 North America
- United States
- 510 General works
- 511.A-Z By region or state, A-Z
- Canada
- 511.2 General works
- 511.3.A-Z By region or province, A-Z
- Latin America
- 511.7 General works
- Mexico
- 512 General works
- 512.2.A-Z By region or state, A-Z
- 512.4 Central America (Table Q3)
- 512.5 West Indies. Caribbean Area (Table Q3)
- 512.6 South America (Table Q3)
- Europe
- 512.7 General works
- 513 Great Britain
- 514.A-Z Other European regions or countries, A-Z
- 515 Asia (Table Q3)
- 516 Africa (Table Q3)
- 517 Australia
- 517.5 New Zealand
- 518 Pacific islands (Table Q3)
- 519 Arctic regions
- 519.5 Antarctica
- Pteridophyta (Ferns, etc.)
- 520 Periodicals, societies, congresses, serial publications
- 521 Anatomy, physiology, etc.
- 522 General works, treatises, and textbooks
- 522.5 Juvenile works
- 523 Classification. Systematic works
- 523.3 Catalogs and collections
- 524.A-Z Systematic divisions, A-Z
- 524.A25 Actiniopteridaceae
- 524.A29 Adiantaceae
- (524.A65) Aspidiaceae  
see QK524.D79
- 524.A7 Aspleniaceae
- 524.A76 Athyriaceae
- 524.A94 Azollaceae
- 524.C9 Cyatheaceae
- 524.D5 Dennstaedtiaceae
- 524.D55 Dicksoniaceae
- 524.D79 Dryopteridaceae
- 524.E6 Equisetaceae
- 524.H87 Huperziaceae
- 524.H9 Hymenophyllaceae
- 524.I8 Isoetaceae
- 524.L64 Lomariopsidaceae
- 524.L9 Lycopodiaceae
- 524.M3 Marattiaceae

## Cryptogams

## Pteridophyta (Ferns, etc.)

## Systematic divisions, A-Z -- Continued

- 524.M4 Marsileaceae
- 524.O7 Ophioglossaceae
- 524.O8 Osmundaceae
- 524.P3 Parkeriaceae
- 524.P7 Polypodiaceae
- 524.P77 Psilotaceae
- Pteridaceae see QK524.A29
- 524.S33 Salviniaceae
- 524.S35 Schizaeaceae
- 524.S46 Selaginellaceae
- 524.T54 Thelypteridaceae

## Geographical distribution

For particular taxa see QK524.A+

- 524.35 General works
- Physiographic divisions (General)

- 524.37 Water
- Land see QK524.35

## Topographic divisions

## America

- 524.4 General works
- North America
- 524.5 General works
- 524.7 Great Lakes region
- United States
- 525 General works
- 525.5.A-Z By region or state, A-Z
- Canada
- 525.6 General works
- 525.7.A-Z By region or province, A-Z
- Latin America
- 525.8 General works
- Mexico
- 525.85 General works
- 525.9.A-Z By region or state, A-Z
- 526 Central America (Table Q3)
- 526.2 West Indies. Caribbean area (Table Q3)
- 526.4 South America (Table Q3)
- Europe
- 526.5 General works
- 527 Great Britain
- 528.A-Z Other European regions or countries, A-Z
- 529 Asia (Table Q3)
- 530 Africa (Table Q3)
- 531 Australia
- 531.5 New Zealand
- 532 Pacific islands (Table Q3)

## Bryophyta. Bryology

- 532.4 Periodicals. Societies. Serials
- 532.42 Congresses
- 532.5 Dictionaries and encyclopedias
- History
- 532.6 General works
- 532.65.A-Z By region or country, A-Z

## Cryptogams

## Bryophyta. Bryology -- Continued

## Biography

532.7

Collective

532.75.A-Z

Individual, A-Z

532.8

Directories

533

General works, treatises, and textbooks

533.3

Juvenile works

533.35

Addresses, essays, lectures

Rare and endangered bryophytes

533.4

General works

533.5.A-Z

By region or country, A-Z

533.6

Anatomy, physiology, etc.

533.7

Classification. Systematic works

533.74

Catalogs and collections

By region or country

United States

533.8

General works

533.82.A-Z

By region or state, A-Z

533.84.A-Z

Other regions or countries, A-Z

## Musci (Mosses)

534

Periodicals, societies, congresses, serial publications

535

Anatomy, physiology, etc.

537

General works, treatises, and textbooks

537.5

Juvenile works

538

Classification. Systematic works

538.4

Catalogs and collections

539.A-Z

Systematic divisions, A-Z

539.A6

Amblystegiaceae

539.B68

Brachytheciaceae

539.B7

Bryaceae

539.B97

Buxbaumiaceae

539.D5

Dicranaceae

539.E76

Erpodiaceae

539.F5

Fissidentaceae

539.F6

Fontinalaceae

539.F98

Funariaceae

539.G7

Grimmiaceae

539.H64

Hookeriaceae

539.H95

Hypnobryales

539.H96

Hypopterygiaceae

539.M68

Mniaceae

539.O7

Orthotrichaceae

539.O75

Orthotrichales

539.P7

Plagiotheciaceae

539.P78

Polytrichaceae

539.P8

Pottiaceae

539.P93

Pterobryaceae

539.S46

Seligeriaceae

539.S75

Sphagnaceae

539.S76

Splachnaceae

539.S84

Stereophyllaceae

539.T58

Timmiaceae

## Local

America

540.4

General works

## Cryptogams

## Bryophyta. Bryology

## Musci (Mosses)

## Local

## America -- Continued

## North America

540.5

General works

540.7

Great Lakes region

## United States

541

General works

541.5.A-Z

By region or state, A-Z

## Canada

541.6

General works

541.7.A-Z

By region or province, A-Z

541.8

## Latin America

## Mexico

541.85

General works

541.9.A-Z

By region or state, A-Z

542

Central America (Table Q3)

542.2

West Indies. Caribbean area (Table Q3)

542.4

South America (Table Q3)

542.45

Atlantic islands (Table Q3)

## Europe

542.5

General works

543

Great Britain

544.A-Z

Other European regions or countries, A-Z

545

Asia (Table Q3)

546

Africa (Table Q3)

547

Australia

547.5

New Zealand

548

Pacific islands (Table Q3)

549

Arctic regions

549.5

Antarctica

## Hepaticae (Liverworts)

551

Anatomy, physiology, etc.

553

General works, treatises, and textbooks

554

Classification. Systematic works

555.A-Z

Systematic divisions, A-Z

555.A3

Adelanthaceae

555.A5

Aneuraceae

(555.A6)

Anthocerotaceae

see QK563.75+

555.B34

Balantiopsaceae

555.B7

Bryopteridaceae

555.D5

Dilaenaceae

555.F6

Fossombroniaceae

555.F9

Frullaniaceae

555.G44

Geocalycaceae

555.G7

Grimaldiaceae

555.H35

Haplomitriaceae

555.J9

Jungermanniaceae

555.L37

Lejeuneaceae

555.L4

Lepidoziaceae

555.L58

Lophocoleaceae

555.L6

Lophoziaceae

555.M2

Marchantiaceae

## Cryptogams

## Bryophyta. Bryology

## Hepaticae (Liverworts)

## Systematic divisions, A-Z -- Continued

555.M4 Metzgeriaceae  
 555.P45 Plagiochilaceae  
 555.P6 Porellaceae  
 555.R5 Ricciaceae  
 555.S34 Scapaniaceae  
 555.T3 Targioniaceae

## Local

## America

555.4 General works  
 North America  
 555.5 General works  
 555.7 Great Lakes region  
 United States  
 556 General works  
 556.5.A-Z By region or state, A-Z  
 Canada  
 556.6 General works  
 556.7.A-Z By region or province, A-Z  
 Latin America  
 556.8 General works  
 Mexico  
 556.85 General works  
 556.9.A-Z By region or state, A-Z  
 557 Central America (Table Q3)  
 557.2 West Indies. Caribbean area (Table Q3)  
 557.4 South America (Table Q3)  
 Atlantic Ocean islands  
 557.45 General works  
 557.47.A-Z By island or group of islands, A-Z  
 557.47.F34 Falkland Islands  
 Europe  
 557.5 General works  
 558 Great Britain  
 559.A-Z Other European regions or countries, A-Z  
 560 Asia (Table Q3)  
 561 Africa (Table Q3)  
 562 Australia  
 562.5 New Zealand  
 563 Pacific islands (Table Q3)  
 563.5 Arctic regions  
 563.7 Antarctica  
 563.725 Southern hemisphere

## Hornworts

563.75 Periodicals, societies, congresses, serial publications  
 563.77 Anatomy, physiology, etc.  
 563.8 General works, treatises, and textbooks  
 563.84 Classification. Systematic works  
 563.85.A-Z By genus, A-Z  
 563.85.A57 Anthoceros  
 563.87.A-Z By region or country, A-Z

## Algae. Algology

564 Periodicals. Societies. Serials

- Cryptogams  
 Algae. Algology -- Continued
- 564.3 Congresses  
 564.5 Collected works (nonserial)  
 564.6 Dictionaries and encyclopedias  
 History  
 564.7 General works  
 564.73 By region or country, A-Z  
 Biography  
 564.75 Collective  
 564.77 Individual, A-Z  
 564.8 Directories  
 Anatomy, physiology, etc.  
     Including cytology, morphology
- 565 General works  
 565.2 Laboratory cultures and technique  
 565.5 Genetics  
 566 General works, treatises, and textbooks  
 566.3 Popular works  
 566.5 Juvenile works  
 567 Classification. Systematic works  
 567.5 Catalogs and collections  
 568.A-Z Special topics, A-Z  
 568.B55 Blooms  
 568.E26 Ecology  
     For systematic treatment see QK569.A+  
     For geographic treatment see QK570+
- 568.E85 Evolution  
 568.M52 Microalgae  
     For systematic treatment see QK569.A+  
     For geographic treatment see QK570+
- 568.T67 Toxic algae  
     Including toxic marine algae
- 569.A-Z Systematic divisions, A-Z  
 569.A27 Acrochaetiaceae  
 569.A43 Alariaceae  
     Audouinellaceae see QK569.A27  
 569.B15 Bacillariaceae  
     Bacillariophyceae. Bacillariophyta see QK569.D54  
 569.B2 Bangiaceae  
 569.B25 Batrachospermaceae  
 569.C37 Caulerpaceae  
 569.C39 Centrales  
 569.C4 Ceramiaceae  
 569.C44 Chaetangiaceae  
 569.C45 Chaetophoraceae  
 569.C455 Chaetophorales  
 569.C47 Characeae  
 569.C48 Characiaceae  
 569.C483 Charophyta  
 569.C484 Chattonellaceae  
 569.C486 Chlamydomonadaceae  
 569.C49 Chlorellaceae  
 569.C494 Chlorococcaceae  
 569.C496 Chloroccales  
 569.C6 Chlorophyta (Green algae)

## Cryptogams

## Algae. Algology

## Systematic divisions, A-Z -- Continued

569.C617	Chromophyta
569.C62	Chrysophyceae
569.C622	Chrysophytes
569.C624	Cladophoraceae
569.C63	Coccolithophoridae
569.C65	Codiaceae
569.C73	Coleochaetaceae
569.C8	Corallinaceae
569.C86	Crossocarpaceae
569.C95	Cryptonemiaceae
569.C956	Cyanidiaceae
	Cyanophyta see QR99.6+
569.C97	Cystoseiraceae
569.D3	Dasyaceae
569.D33	Dasycladaceae
569.D34	Dasycladales
569.D4	Delesseriaceae
569.D43	Desmerestiaceae
569.D46	Desmidiaceae
	Desmidiales see QK569.D46
	Desmidiales (Zygnematales) see QK569.Z82
569.D54	Diatoms (Bacillariophyceae. Bacillariophyta. Diatomophyceae)
569.D55	Dinamoebales
569.D56	Dinoflagellates
	Dunaliellaceae see QK569.P65
569.E9	Euglenaceae
569.E93	Euglenids
569.E96	Eustigmatophyceae
569.F64	Florideae
569.F73	Fragilariaceae
569.F95	Fucaceae
569.G4	Gelidiaceae
569.G42	Gelidiales
569.G5	Gigartinaceae
569.G7	Gonidomataceae
569.G8	Gracilariaceae
569.H44	Hemidiscaceae
569.H46	Heteropodiaceae
569.K3	Kallymeniaceae
569.L2	Laminariaceae
569.L34	Laminariales
569.L5	Lemaneaceae
569.L53	Lessoniaceae
569.L56	Lithodermataceae
569.M27	Mallomonadaceae
	Melanophyceae see QK569.P5
569.M48	Mesotaeniaceae
569.M87	Myrionemataceae
	Myxophyceae see QR99.6+
569.N37	Naviculaceae
569.N43	Nemaliales
569.N45	Nemastomataceae
	Nostocaceae see QR99.7.N67

## Cryptogams

## Algae. Algology

## Systematic divisions, A-Z -- Continued

- 569.O37 Ochromonadaceae  
 569.O4 Oedogoniaceae. Oedogoniales  
 569.O6 Oocystaceae  
 Oscillatoriaceae see QR99.7.O82
- 569.P25 Palmariaceae  
 569.P33 Peridinales  
 569.P35 Peyssonneliaceae  
 569.P39 Pfiesteriaceae  
 569.P47 Phaeodactylaceae  
 569.P5 Phaeophyta  
 569.P54 Phyllophoraceae  
 569.P65 Polyblepharidaceae  
 569.P68 Porphyridiaceae  
 569.P9 Prasiolaceae  
 569.P93 Prochloraceae  
 (569.P94) Protococcaceae  
     see QK569.C486
- 569.P97 Protosiphonaceae  
 569.P974 Prynnesiophyceae  
 569.P98 Pseudoanemoniaceae  
 569.R26 Raphidophyceae  
 569.R37 Rhodomelaceae  
 569.R4 Rhodophyta. Rhodophyceae  
 569.R6 Rhodymeniaceae  
 569.S2 Sargassaceae  
 569.S32 Scenedesmaceae  
 Schizophyceae see QR99.6+
- 569.S36 Scytosiphonaceae  
 569.S43 Selenastraceae  
 569.S53 Silicoflagellates  
 569.S56 Siphonocladaceae  
 569.S7 Sphacelariaceae  
 Stigonemataceae see QR99.7.S85
- 569.T47 Thalassiosiraceae  
 569.T73 Trentepohliaceae  
 569.U46 Udoteaceae  
 569.U5 Ulotrichaceae  
 569.U55 Ulvaceae  
 569.U6 Ulvales  
 569.U66 Ulvophyceae  
 569.V3 Valoniaceae  
 569.V35 Vaucheriaceae  
 569.V9 Volvocaceae  
 569.V93 Volvocales  
 569.Z8 Zygnemataceae  
 569.Z82 Zygnematales
- Geographical distribution  
     For particular taxa see QK569.A+
- 570 General works  
 Physiographic divisions (General)
- 570.2 Marine  
     Cf. SH390+ Fisheries
- 570.25 Freshwater



## Cryptogams

## Algae. Algology

## Geographical distribution -- Continued

## Topographical divisions

## America

- 570.4 General works
- North America
- 570.5 General works
- 570.7 Great Lakes region
- United States
- 571 General works
- 571.5.A-Z By region or state, A-Z
- Canada
- 571.6 General works
- 571.7.A-Z By region or province, A-Z
- Latin America
- 571.8 General works
- Mexico
- 571.85 General works
- 571.9.A-Z By region or state, A-Z
- 572 Central America (Table Q3)
- 572.2 West Indies. Caribbean area (Table Q3)
- 572.4 South America (Table Q3)
- Atlantic Ocean and islands
- 572.48 General works
- 572.5.A-Z By region, group of islands, or island, A-Z
- Europe
- 572.9 General works
- 573 Great Britain
- 574.A-Z Other European regions or countries, A-Z
- 575 Asia (Table Q3)
- 576 Africa (Table Q3)
- 576.5 Indian Ocean
- 577 Australia
- 577.5 New Zealand
- 577.8 Pacific Ocean
- 578 Pacific Islands (Table Q3)
- Polar regions
- 579 General works
- 580 Arctic regions
- 580.5 Antarctica

## Lichens. Lichenology

- 580.7 Periodicals. Societies. Serials
- 580.74 Congresses
- 580.75 Collected works (nonserial)
- 580.77 Dictionaries and encyclopedias
- Biography
- 580.85 Collective
- 580.86.A-Z Individual, A-Z
- 581 Anatomy, physiology, etc.
- 583 General works, treatises, and textbooks
- 584 Classification. Systematic works
- 584.2 Catalogs and collections
- 584.6.A-Z Special topics, A-Z
- 584.6.E64 Epiphytic lichens
- 585.A-Z Systematic divisions, A-Z

## Cryptogams

## Lichens. Lichenology

## Systematic divisions, A-Z -- Continued

585.C28	Caliciales
585.C3	Caloplacaceae
585.C6	Cladoniaceae
585.C65	Collemataceae
585.G8	Graphidaceae
585.H48	Heppiaceae
585.L37	Lecanoraceae
585.L4	Lecidiaceae
585.L53	Lichinaceae
585.L63	Lobariaceae
585.M44	Megalosporaceae
585.O63	Opegraphaceae
585.P17	Pannariaceae
585.P2	Parmeliaceae
585.P34	Peltigeraceae
585.P37	Pertusariaceae
585.P45	Physciaceae
585.R35	Ramalinaceae
585.R7	Roccellaceae
585.S64	Sphaerophoraceae
585.S78	Stereocaulaceae
585.S8	Stictaceae
585.T44	Teloschistaceae
585.T48	Thelenellaceae
585.T5	Thelotremaaceae
585.T7	Trypetheliaceae
585.U5	Umbilicariaceae
585.V4	Verrucariaceae

## Local

## America

586.4	General works
	North America
586.5	General works
586.7	Great Lakes region
	United States
587	General works
587.5.A-Z	By region or state, A-Z
	Canada
587.6	General works
587.7.A-Z	By region or province, A-Z
	Latin America
587.8	General works
	Mexico
587.85	General works
587.9.A-Z	By region or state, A-Z
588	Central America (Table Q3)
588.2	West Indies. Caribbean area (Table Q3)
588.4	South America (Table Q3)
	Atlantic Ocean and islands
588.47	General works
588.48.A-Z	By region, group of islands or island, A-Z
	Europe
588.5	General works

## Cryptogams

## Lichens. Lichenology

## Local

Europe -- Continued

589

Great Britain

590.A-Z

Other European regions or countries, A-Z

591

Asia (Table Q3)

592

Africa (Table Q3)

593

Australia

593.5

New Zealand

594

Pacific islands (Table Q3)

Arctic regions

597

General works

597.2

Greenland

597.3

Spitzbergen

597.5

Antarctica

597.7

Tropics

## Fungi

Cf. QR111+ Soil fungi

Cf. QR245+ Pathogenic fungi

Cf. TA423.2+ Decay of wood

600

Periodicals. Societies. Serials

600.2

Collected works (nonserial)

600.3

Congresses

600.35

Dictionaries and encyclopedias

Biography

600.44

Collective

600.45.A-Z

Individual, A-Z

Study and teaching. Research

600.47

General works

600.473.A-Z

By region or country, A-Z

600.476

Experiments

600.478

Laboratory manuals

600.48

Collection and preservation

Museums. Exhibitions

600.5

General works

600.53.A-Z

By region or country, A-Z

*Under each country:*

.x

*General works*

.x2A-.x2Z

*Individual. By name, A-Z*

Catalogs and collections

600.7

General works

600.73.A-Z

By region or country, A-Z

*Under each country:*

.x

*General works*

.x2A-.x2Z

*Individual. By name, A-Z*

601

Anatomy, physiology, etc.

Including cytology, morphology

602

Genetics, variation, etc.

603

General works, treatises, and textbooks

Classification. Systematic works

603.2

General works

603.3

Nomenclature

603.5

Juvenile works

604

Special aspects of the subject as a whole

604.2.A-Z

Special topics, A-Z

## Cryptogams

## Fungi

## Special topics, A-Z -- Continued

- 604.2.A52 Anaerobic fungi
- 604.2.A56 Antagonistic fungi
- 604.2.C62 Aquatic fungi see QK617.8+
- 604.2.C64 Colonies
- 604.2.C66 Communities
- 604.2.E26 Conservation
- 604.2.E27 Ecology
- 604.2.E28 Economic aspects
- 604.2.E48 Ecophysiology
- 604.2.E53 Ectomycorrhizas see QK604.2.M92
- 604.2.E85 Edible fungi see QK617
- 604.2.H34 Endangered fungi
- 604.2.H95 Endomycorrhizas see QK604.2.M92
- 604.2.I36 Endophytic fungi
- 604.2.L53 Evolution
- 604.2.L54 Hallucinogenic mushrooms
- 604.2.M64 Hypogeous fungi
- 604.2.M89 Identification
- 604.2.M92 Lichen-forming fungi
- Including ectomycorrhizas and endomycorrhizas
- Cf. SB106.M83 Plant culture
- 604.2.N45 Nematode-destroying fungi
- 604.2.P45 Pathogenic fungi see QR245+
- 604.2.P56 Phytopathogenic fungi
- Cf. SB733 Control of phytopathogenic fungi and fungal diseases of plants
- 604.2.P64 Pleomorphic fungi
- 604.2.P73 Poisonous fungi see QK617
- 604.2.S25 Populations
- 604.2.S86 Predacious fungi
- 604.2.W65 Saprophytic fungi
- 604.2.W66 Soil fungi see QR111+
- Straminipilous fungi
- Wood-decaying fungi
- Cf. TA423.2+ Deterioration and preservation of wood
- Wood-staining fungi
- Cf. TA423.4 Deterioration and preservation of wood
- Yeast fungi see QK617.5
- 604.2.Z66 Zoosporic fungi
- Local
- America
- 604.4 General works
- North America
- 604.5 General works
- 604.7 Great Lakes region
- United States
- 605 General works
- 605.5.A-Z By region or state, A-Z
- Canada
- 605.6 General works

- Cryptogams
  - Fungi
    - Local
      - America
        - North America
          - Canada -- Continued
            - By region or state, A-Z
    - Latin America
      - General works
      - Mexico
        - General works
- By region or state, A-Z
- Central America (Table Q3)
- West Indies. Caribbean area (Table Q3)
- South America (Table Q3)
- Europe
  - General works
  - Great Britain
  - Other European regions or countries, A-Z
- Asia (Table Q3)
- Africa (Table Q3)
- Australia
- New Zealand
- Pacific islands (Table Q3)
- Arctic regions
- Antarctica
- Tropics
- Edible and poisonous fungi. Mushrooms (Popular works)
  - For geographic treatment see QK604.4+
  - For systematic treatment see QK621+
  - Cf. SB352.85+ Culture
- Yeast fungi (General)
  - For geographic treatment see QK604.4+
  - For systematic treatment see QK621+
  - Cf. QR151+ Microorganisms of fermentation
  - Cf. TP433 Food processing and manufacture
  - Cf. TP580+ Brewing
- Aquatic fungi (General)
  - For geographic treatment see QK604.4+
  - For systematic treatment see QK621+
- General works
- Marine fungi (General)
- Freshwater fungi (General)
- Systematic divisions
  - Phycomycetes
    - General works, treatises, and textbooks
    - Special, A-Z
      - Albuginaceae
      - Basidiobolus
      - Blastocladiaceae
      - Choanephoraceae
      - Chytridiaceae
      - Coelomomycetaceae
      - Eccrinales
      - Endogonaceae
      - Entomophthoraceae

## Cryptogams

## Fungi

## Systematic divisions

## Phycomycetes

## Special, A-Z -- Continued

- |           |   |
|-----------|---|
| 621.E5    | Entophlyctaceae                         |
| 621.L44   | Leptomitales                            |
|           | Molds see QK600+                        |
| 621.M6    | Monoblepharidaceae                      |
| 621.M64   | Mortierellaceae                         |
| 621.M94   | Mucoraceae                              |
| 621.M96   | Mucorales                               |
| 621.O4    | Olpidiaceae                             |
|           | Oomycetes see QK621.A1                  |
| 621.P45   | Peronosporaceae                         |
| 621.P47   | Peronosporales                          |
| 621.P9    | Pythiaceae                              |
| 621.R5    | Rhipidiaceae                            |
| 621.S24   | Saprolegniaceae                         |
| 621.S25   | Saprolegniales                          |
| 621.S9    | Synchytriaceae                          |
| 621.T45   | Thraustochytriaceae                     |
|           | Trichomycetes see QK621.A1              |
| 621.W6    | Woroniaceae                             |
|           | Ascomycetes                             |
| 623.A1    | General works, treatises, and textbooks |
| 623.A2-Z  | Special, A-Z                            |
| 623.A8    | Ascobolaceae                            |
|           | Aspergillus see QK625.M7                |
| 623.A93   | Asterinales                             |
| 623.C36   | Capnodiaceae                            |
| 623.C53   | Chaetomiaceae                           |
| 623.C55   | Clavicipitaceae                         |
| 623.C57   | Clavicipitales                          |
| 623.D47   | Dermateaceae                            |
| 623.D55   | Diaporthales                            |
|           | Discomycetes see QK623.A1               |
| 623.D72   | Dothideaceae                            |
| 623.D74   | Dothideales                             |
| 623.E4    | Elaphomycetaceae                        |
| 623.E56   | Endomycetaceae                          |
| 623.E7    | Erysiphaceae                            |
| 623.E73   | Erysiphales                             |
| (623.E85) | Eurotiaceae                             |
|           | see QK623.T75                           |
| 623.G55   | Gnomoniaceae                            |
| 623.G94   | Gymnoascaceae                           |
| 623.H35   | Helotiaceae                             |
| 623.H4    | Helvellaceae                            |
| 623.H76   | Hyaloscyphaceae                         |
| 623.H86   | Hypocreaceae                            |
| 623.H87   | Hypomycetaceae                          |
| 623.H88   | Hysteriaceae                            |
| 623.L3    | Laboulbeniales                          |
| 623.L39   | Leotiaceae                              |
| 623.L6    | Lophiostomaceae                         |

## Cryptogams

## Fungi

## Systematic divisions

## Ascomycetes

## Special, A-Z -- Continued

- 623.M36 Manglicolaceae  
 623.M38 Melanconidaceae  
 623.M39 Melanomatales  
 Meliolaceae see QK623.M4  
 623.M4 Meliolales. Meliolaceae  
 623.M5 Microthyriaceae  
 623.M63 Monascaceae  
 623.M65 Morchellaceae  
 623.M89 Mycocaliciales  
 623.M93 Mycosphaerellales. Mycosphaerellaceae  
 623.N43 Nectriaceae  
 623.O58 Onygenaceae  
 623.O6 Ophiostomataceae  
 623.O75 Otideaceae  
 Patellariaceae see QK623.P5  
 Penicillium see QK625.M7  
 623.P5 Pezizaceae  
 623.P53 Pezizales  
 623.P6 Phacidiaceae  
 623.P62 Phacidiales  
 623.P63 Phyllachoraceae  
 623.P66 Pleosporaceae  
 623.P68 Pleosporales  
 623.P8 Pseudosphaeriaceae  
 Pyrenomycetes see QK623.A1  
 623.P93 Pyrenulaceae  
 623.P95 Pyronemataceae  
 623.R45 Rhytismataceae  
 623.S23 Saccharomycetaceae  
 623.S26 Sarcoscyphaceae  
 623.S27 Sarcosmataceae  
 623.S3 Sclerotiniaceae  
 623.S6 Sordariaceae  
 623.S73 Sphaeriaceae  
 623.S76 Sphaeriales  
 623.T3 Taphrinaceae  
 623.T54 Thermoascaceae  
 623.T75 Trichocomaceae  
 623.T8 Tuberaceae  
 623.V35 Valsaceae  
 623.V46 Venturiaceae  
 623.X9 Xylariaceae  
 623.Z64 Zopfiaceae
- Fungi imperfecti (Deuteromycetes)  
 General works, treatises, and textbooks  
 Special, A-Z  
 625.A1 Agonomycetaceae  
 625.A2-Z Cryptococcaceae  
 625.A48 Dematiaceae  
 625.C76 Discellaceae see QK625.E9  
 625.D4 Excipulaceae  
 625.E9

## Cryptogams

## Fungi

## Systematic divisions

## Fungi imperfecti (Deuteromycetes)

## Special, A-Z

- 625.L4 Hyphomycetes see QK625.A1
- 625.M4 Leptostromataceae
- 625.M7 Melanconiaceae
- 625.M74 Melanconiales see QK625.M4
- 625.M9 Moniliaceae
- 625.M74 Moniliales
- 625.M9 Mucedinaceae see QK625.M7
- 625.R4 Mycelia Sterilia
- 625.S5 Nectrioidaceae see QK625.Z9
- 625.S6 Phyllostictaceae see QK625.S5
- 625.S7 Phyllostictales see QK625.S6
- 625.T8 Rhizoctonia
- 625.Z9 Sphaeroidaceae see QK625.S5
- 626 Sphaeropsidaceae
- 626.3 Sphaeropsidales
- 626.5 Stilbaceae see QK625.S7
- 627.A1 Stilbellaceae
- 627.A2-Z Tuberculariaceae
- 627.C65 Zythiaceae
- 627.C75 Basidiomycota
- 627.M44 General works, treatises, and textbooks
- 627.P97 Teliomycetes
- 627.3 General works, treatises, and textbooks
- 627.4 Septobasidiales. Septobasidiaceae
- 627.45 Uredinales (Rust fungi)
- 627.5 General works, treatises, and textbooks
- 627.53.A-Z Special, A-Z
- 627.53.E93 Coleosporiaceae
- 627.6 Cronartiaceae
- 627.7 Melampsoraceae
- 627.8 Pucciniaceae
- 628.A1 Ustomycetes
- 628.A2-Z General works, treatises, and textbooks
- 628.T5 Cryptobasidiales. Cryptobasidiaceae
- 628.U8 Cryptomycocolacales. Cryptomycocolacaceae
- 628.5 Exobasidiales
- 628.53.A-Z General works, treatises, and textbooks
- 628.53.E93 Special, A-Z
- 627.6 Exobasidiaceae
- 627.7 Graphiolales. Graphiolaceae
- 627.8 Platygloeales. Platygloeaceae
- 628.A1 Sporidiales. Sporidiobolaceae
- 628.A2-Z Ustilaginales (Smut fungi)
- 628.T5 General works, treatises, and textbooks
- 628.U8 Special, A-Z
- 628.5 Tilletiaceae
- 629.A-Z Ustilaginaceae
- 629.A4 Basidiomycetes
- 629.A4 General works, treatises, and textbooks
- 629.A4 Special, A-Z
- 629.A4 Agaricaceae



## Cryptogams

## Fungi

## Systematic divisions

## Basidiomycota

## Basidiomycetes

## Special, A-Z -- Continued

629.A44	Agaricales
629.A53	Amanitaceae
(629.A58)	Aphylliphorales
	see QK628.5
629.A74	Athiliaceae
629.A8	Auricales. Auriculariaceae
629.B58	Bolbitiaceae
629.B6	Boletaceae
629.B63	Boletales
629.C3	Cantharellaceae
629.C33	Cantharellales
629.C6	Clavariaceae
629.C783	Coriolaceae
629.C785	Corticaceae
629.C787	Cortinariaceae
629.C83	Crepidotaceae
629.C95	Cyphellaceae
629.C97	Cystofilobasidiales. Cystofilobasidiaceae
629.D2	Dacrymycetaceae
629.E34	Echinodontiaceae
629.E56	Entolomataceae
(629.E9)	Exobasidiaceae
	see QK627.53.E93
629.F37	Favolaschiaceae
629.G18	Ganodermataceae
	Gasteromycetes see QK626+
629.G4	Geastraceae
	Geastrales see QK629.L92
629.G6	Gomphaceae
629.H8	Hydnaceae
629.H86	Hygrophoraceae
629.H89	Hymenochaetaceae
629.H9	Hymenogastraceae
	Hymenomycetes see QK626+
629.L33	Lachnocladiaceae
629.L9	Lycoperdaceae
629.L92	Lycoperdales
629.M4	Melanogastraceae
629.N5	Nidulariales. Nidulariaceae
629.P55	Peniophoraceae
629.P6	Phallaceae
629.P63	Phallales
629.P64	Phanerochaetaceae
629.P67	Pluteaceae
629.P7	Polyporaceae
629.P74	Poriales
(629.R5)	Rhodophyllaceae
	see QK629.E56
629.R87	Russulaceae
629.S35	Sclerodermataceae

## Cryptogams

## Fungi

## Systematic divisions

## Basidiomycota

## Basidiomycetes

## Special, A-Z -- Continued

(629.S4)

Septobasidiaceae

see QK626.5

629.S73

Stereaceae

629.S76

Strobilomycetaceae

629.S77

Strophariaceae

629.T4

Thelephoraceae

629.T67

Tremellaceae

629.T7

Tremellales

629.T73

Tricholomataceae

629.T8

Tulasnellaceae

(633)

## Myxobacterales

see QR82.M95

## Myxomycetes (Slime molds)

## General works, treatises, and textbooks

635.A1

## Special, A-Z

635.A2-Z

Ceratiomyxaceae

635.C4

Dictyosteliaceae

635.D5

Dictyosteliales

635.D53

Physaraceae

635.P5

Plasmodiophoraceae

635.P6

Plasmodiophorales

635.P65

Stemonitaceae

635.S8

(638)

## Eccrinales

see QK621.E3

## Plant anatomy

## Including plant morphology

Cf. QK665 Embryology

Cf. QK671 Histology

Cf. QK725 Cytology

640

## Periodicals. Societies. Serials

640.2

## Collected works (nonserial)

640.3

## Congresses

640.4

## Dictionaries and encyclopedias

641

## General works, treatises, and textbooks

642

## Pictorial works and atlases

642.5

## Addresses, essays, lectures

(643)

## Individual plants and groups of plants

see QK495+

## Vegetative organs

644

## Root and modifications. Root tubercles

Bacteriology of root nodules see QR113

644.5

## Haustoria

## Shoot

Including buds, apexes, etc.

645

## General works

## Stem

Including bulbs, rhizomes, types of branching

646

## General works

646.7

## Tree trunks

647

## Wood

- Plant anatomy
  - Vegetative organs
    - Shoot
      - Stem -- Continued
        - 648 Bark
        - 649 Leaf and modifications. Stipules
        - 650 Appendages
          - Including trichomas, thorns, spines, tendrils, scales, hairs, etc.
      - 651 Thallus
    - Reproductive organs of spermatophytes
      - 652 General works
      - Flower and inflorescence
        - 653 General works
        - 654 Receptacle
        - Perianth
          - 655 General works
          - 656 Calyx
          - 657 Corolla
          - 658 Androecium. Palynology
            - Including stamens, pollen, etc.
          - 659 Gynoecium
            - Including pistils, ovary, etc.
        - Fruit and seed
          - 660 General works
          - 661 Seed
            - Cf. QK898.S43 Seed storage compounds
      - 662 Reproductive organs of cryptogams
      - 663 Alternation of generations
      - 664 Teratology
      - 665 Embryology
        - Including embryos, embryosacs, morphogenesis, spermatogenesis, etc.
      - (667) Phylogeny
        - see QK989
      - 669 Nomenclature of color as applied to plant description
      - 671 Histology
      - 673 Technique
        - Including microscopy, microtechnique, photomicrography
      - (683-707) Individual parts
        - see QK644+
    - Plant physiology
      - 710 Periodicals, societies, serial publications
      - 710.2 Congresses
        - General works, treatises, and textbooks
          - 711 Through 1969
          - 711.2 1970-
          - 711.5 Juvenile works
        - Study and teaching. Research
          - 714 General works
            - 714.3 Problems, exercises, examinations
            - 714.4 Experiments
            - 714.5 Laboratory manuals
        - Instruments and apparatus
          - 715 General works
          - 715.5 Phytotrons and growth chambers

- Plant physiology -- Continued
- 717 Plant ecophysiology  
 Including plant resource allocation  
 For geographic treatment see QK108+  
 For systematic treatment see QK494+  
 For physiographic treatment see QK930+
- 720 Physical plant physiology  
 Physiology of the vegetative organs (General)  
 For individual organs and groups of organs see QK644+
- 725 Plant cells and tissues
- 728 Molecular biology  
 Growth. Development  
 Including pattern formation  
 Cf. QK665 Embryology
- 731 General works
- 740 Germination
- 745 Factors influencing growth  
 Chemical agents affecting plants  
 Cf. S631+ Fertilizers  
 Cf. SB742+ Deficiency diseases  
 Cf. SD408 Use of fertilizers
- 746 General works, treatises, and textbooks  
 Including nutritive matter, etc.  
 Pollutants  
 Cf. SB744.5+ Plant pathology
- 750 General works
- 751 Air pollutants  
 Cf. SB745 Plant pathology
- 753.A-Z Special chemicals, A-Z
- 753.A25 Acids
- 753.A4 Alkaloids
- 753.A45 Aluminum
- 753.A78 Arsenic
- 753.A79 Ascorbic acid see QK753.V58
- 753.A8 Atrazine
- 753.B4 Auxin
- 753.B6 Benzylaminopurine
- 753.B7 Borax
- 753.C16 Boron
- 753.C2 Cadmium
- 753.C3 Calcium
- 753.C58 Carbon dioxide
- 753.C6 Chelates
- 753.C62 Chlorides
- 753.C67 Chlorophenoxyacetic acid
- 753.C7 Cobalt
- 753.C74 Colchicine
- 753.C743 Copper
- 753.D4 Copper chlorides
- 753.D5 Detergents
- 753.E7 Dichlorophenoxyacetic acid
- 753.E8 Essences and essential oils
- 753.F5 Ethylene
- 753.F53 Fluorescein
- 753.G45 Fluorides
- Galactose

## Plant physiology

## Physical plant physiology

## Chemical agents affecting plants

## Special chemicals, A-Z -- Continued

- 753.G47 Gases
  - 753.G5 Gibberellins. Gibberellic acid
  - 753.H4 Heavy metals
  - 753.H45 Herbicides
    - Cf. SB744.25 Herbicide injuries
  - 753.H93 Hydrogen-ion concentration
  - 753.I5 Indolacetic acid
  - 753.I54 Insecticides
  - 753.I6 Iodine
  - 753.I7 Iron
  - 753.L37 Latex
  - 753.M27 Magnesium
  - 753.M3 Manganese
  - 753.M47 Metals
  - 753.M56 Minerals
  - 753.M6 Molybdenum
  - 753.N5 Nitrates
  - 753.N54 Nitrogen
  - 753.P37 Pentachlorophenol
  - 753.P4 Petroleum
  - 753.P48 Phosphorus
  - 753.P65 Poisons
  - 753.P67 Polycyclic aromatic hydrocarbons
  - 753.P7 Potassium
  - 753.R33 Radioactive substances
    - Cf. SB746 Plant pathology
  - 753.S3 Salt
  - 753.S32 Salts
  - 753.S5 Silicon
  - 753.S57 Sodium fluoride
  - 753.S6 Sodium sulfate
  - 753.S65 Succinic acid
  - 753.S7 Sugars
  - 753.S8 Sulfates
  - 753.S84 Sulfur
  - 753.S85 Sulfur dioxide
  - 753.T5 Thallium
  - 753.T53 Thiamine
  - 753.T55 Thioureas
  - 753.T7 Trace elements
  - 753.T75 Tritium
  - 753.V58 Vitamin C
  - 753.X45 Xenobiotics
  - 753.Z5 Zinc
- Physical agents affecting plants (General)
- Cf. QK870+ Effect of floods, water levels, etc.
- 754 General works
  - 754.4 Atmosphere

## Plant physiology

## Physical plant physiology

## Physical agents affecting plants (General) -- Continued

## Climate

- Cf. QK913 Acclimatization
- Cf. QK914 Phenology
- Cf. S600+ Crops and climate
- Cf. SD390.5+ Forests and climate

754.5

General works

Local see QK108+

754.7.A-Z

Special topics, A-Z

Drought tolerance see QK754.7.D75

754.7.D75

Droughts. Drought tolerance

Cf. SB791 Plant pathology

Frost see QK756

754.7.S55

Snow

Temperature see QK755+

754.7.W55

Wind

Cf. SB793 Plant pathology

## Temperature

755

General works

755.5

Heat

Including heat production in plants

756

Cold. Frost

Cf. SB781 Plant pathology

757

Radiation

Including light, X-rays, ultraviolet rays, etc.

758

Electricity

759

Mechanical forces

759.5

Volcanic eruptions

760

Space flight

761

Periodicity. Dormancy. Photoperiodism

Aging. Senescence

762.5

General works

763

Shedding of leaves, etc. Abscission

769

Miscellaneous special topics

Movements. Irritability in plants

771

General works

Movements affecting growth

773

Nutation. Torsion

Climbing plants, tendrils, etc.

776

Miscellaneous induced movements

Including geotropism, phototropism, heliotropism, etc.

791

Movements of variation (not affecting growth)

793

Mechanics

Reproduction

Cf. QK982 Hybridization

825

General works

826

Asexual reproduction

Sexual reproduction

827

General works

828

Fecundation. Fertilization. Sterility

830

Flowering

Cf. SB126.8 Plant culture

840

Reparative processes. Regeneration

Cf. SD406 Tree surgery, etc.

- Plant physiology
- Physical plant physiology -- Continued
- 844 Luminescence. Light production
- 845 Electrophysiology of plants
  - Cf. QK758 Effect of electricity on plants
- Botanical chemistry. Phytochemicals
  - Cf. QK981.3 Biochemical genetics
  - Cf. QR148 Microbiological chemistry
- 861 General works, treatises, and textbooks
- Analysis and composition of plants
  - For chemistry of wood see TS932+
- 865 General works
- (866) Chemical analysis of individual plants
  - see QK495+
- 867 Nutrition. Plant food. Assimilation of nitrogen, etc.
  - General works
  - Plant-water relationships
    - Including general works on the effects of water levels and floods on plants
    - Cf. SB785 Plant pathology
- 870 General works
- 871 Absorption of water. Osmosis, sap movements, wilting, translocation, etc.
- 873 Transpiration. Action of stomata, etc.
- 875 Gases in plants
- 876 Gases from plants
- Metabolism
  - 881 General works
  - 882 Photosynthesis. Assimilation and utilization of carbon dioxide
  - 887 Formation of new organic matter
- 891 Respiration
- 894 Anaerobiosis
- 896 Fermentation. Enzymes, diastase, etc.
- 897 Miscellaneous products
- 898.A-Z Special plant constituents, A-Z
  - 898.A15 Abscisic acid
  - 898.A156 Acetolactate synthase
  - 898.A16 Acetylenes
  - 898.A18 Adenosine triphosphatase
  - 898.A2 Albumins
  - 898.A3 Algin
  - 898.A4 Alkaloids
    - Cf. QD421+ Chemistry
  - 898.A43 Allelochemicals. Allelopathic agents
  - 898.A5 Amino acids
  - 898.A52 Aminoacyl-tRNA
  - 898.A53 Amyloid
  - 898.A55 Anthocyanins
  - 898.A57 Antioxidants
  - 898.A59 Antiviral proteins
  - 898.A67 Arabinoglactan
  - 898.A7 Ascorbic acid
  - 898.A74 Asparagine
  - 898.A8 Auxin
  - 898.B54 Bioactive compounds
  - 898.B56 Biogenic amines
  - 898.B85 Brassinosteroids
  - 898.C2 Calcium

## Plant physiology

## Botanical chemistry. Phytochemicals

## Nutrition. Plant food. Assimilation of nitrogen, etc.

## Special plant constituents, A-Z -- Continued

898.C3	Carbohydrates
898.C34	Carotenoids
898.C35	Carotin
898.C42	Cellulose
898.C44	Chlorides
898.C45	Chlorine
898.C5	Chlorophyll
898.C52	Chloroplast DNA
898.C6	Cobalt
898.C94	Cytokinins
898.D44	Deoxyribonucleic acid. DNA
898.D46	Depsides
898.D54	Dimethylpropiothetin
	DNA see QK898.D44
898.E58	Enzymes
898.E75	Essences and essential oils
898.E8	Ethylene
898.F3	Fatty acids
898.F5	Flavonoids
898.F53	Flavonols
898.G45	Gibberellins
898.G475	Glucose
898.G48	Glutamate dehydrogenase
898.G485	Glutathione
898.G49	Gluten
898.G497	Glycoproteins
898.G5	Glycosides
898.H45	Hemicellulose
898.H67	Hormones
898.I53	Indole alkaloids
898.I55	Inositol
898.I7	Iron
898.I76	Isopentenoids
898.I78	Isoquinoline
898.I8	Isozymes
898.L23	Laccase
898.L3	Latex
898.L42	Lectins
898.L5	Lignin
898.L54	Limonoids
898.L56	Lipids
898.L9	Lycopene
898.M25	Malate dehydrogenase
898.M28	Malonic acid
898.M3	Manganese
898.M8	Mucilage
898.N5	Nicotinic acid
898.N57	Nitrates
898.N58	Nitric oxide
898.N6	Nitrogen
898.N8	Nucleic acids
898.N83	Nucleotides



## Plant physiology

## Botanical chemistry. Phytochemicals

## Nutrition. Plant food. Assimilation of nitrogen, etc.

## Special plant constituents, A-Z -- Continued

- 898.O4 Olive oil
- 898.O88 Oxalates
- 898.O9 Oxidases
- 898.O92 Oxygen
- 898.P2 Patellaric acid
- 898.P3 Patulin
- 898.P4 Pectin
- 898.P47 Peroxidase
- 898.P57 Phenols
- 898.P59 Phosphoproteins
- 898.P6 Phosphorus
- 898.P64 Phycobiliproteins
- 898.P65 Phytin
- 898.P66 Phytoalexins
- 898.P67 Phytochrome
- 898.P677 Phytoliths
- 898.P68 Phytomelanes
- 898.P7 Pigments
- 898.P73 Plastocyanin
- 898.P75 Plumieride
- 898.P756 Polyamines
- 898.P76 Polymers
- 898.P764 Polyphenols
- 898.P77 Polysaccharides
- 898.P79 Protein kinases
- 898.P8 Proteins
- 898.P82 Proteolytic enzymes
- 898.P84 Protochlorophyllide
- 898.P97 Pyrrolizidines
- 898.S43 Seed storage compounds
  - For works limited to special compounds see the compound, e.g., Proteins see QK898.P8
- 898.S45 Selenium
- 898.S48 Sesquiterpene lactones
- 898.S49 Sesquiterpenes
- 898.S55 Shikimic acid
- 898.S64 Solanine
- 898.S67 Starch
- 898.S7 Steroids
- 898.S78 Sugar
- 898.S8 Sulfur
- 898.T2 Tannins
- 898.T4 Terpenes
- 898.U68 Uric acid
- 898.U7 Uronic acids
- 898.V5 Vitamins
- 899 Miscellaneous special topics

## Plant ecology

## Cf. QH540+ General ecology

- 900 Periodicals. Societies. Serials
- 900.2 Congresses
- 900.4 Dictionaries
- History

- Plant ecology
  - History -- Continued
    - 900.7 General works
    - 900.73.A-Z By region or country, A-Z
    - 901 General works, treatises, and textbooks
    - (903) Ecological discussion of areas
      - see QK108+
    - (905) Plant ecophysiology
      - see QK717
    - 909 Illustrations of floral ecology of regions
    - 909.5 Vegetation productivity. Primary productivity
      - Cf. QK564+ Algae
      - Cf. QK882 Photosynthesis
      - Cf. QK933+ Phytoplankton
      - Cf. QK938.F6 Forest ecology
    - 910 Vegetation dynamics
    - 911 Vegetative interrelation. Plant communities. Phytosociology
    - Plant adaptation
      - 912 General works
      - 913 Acclimatization
        - Cf. QK754.5+ Vegetation and climate
      - 914 Phenology
      - Nutritive adaptation
        - 915 General works
        - 916 Aquatics, ice plants, dew plants
        - 917 Insectivorous plants. Carnivorous plants
        - 918 Parasites, saprophytes, symbionts
      - Protective adaptations
        - 921 General works
        - 922 Epiphytes, xerophytes, salt-marsh and desert plants
          - Cf. QK938.D4 Desert flora
          - Cf. QK938.S27 Salt marsh flora
        - 923 Spines, secretion, raphides
        - 924 Myrmecophilism, acarophilism
      - 924.5 Plant canopies
      - Reproductive interrelation
        - 925 General works
        - 926 Pollination
        - 929 Dissemination
      - Physiographic regions (General)
        - For geographic treatment see QK108+
      - Water
        - 930 General works
        - 931 Marine
          - Cf. QK938.C6 Coasts
        - Freshwater
          - 932 General works
          - 932.7 Streams
            - Cf. QK105 Flora
        - Phytoplankton
          - 933 General works
          - 934 Marine
          - 935 Freshwater
      - Land
        - General
          - see QK101+ and QK901+

## Plant ecology

## Physiographic regions (General)

## Land -- Continued

- 936 Tropics  
 937 Mountains  
 938.A-Z Other special, A-Z  
     Bogs see QK938.M3  
 938.B8 Burned land  
 938.C3 Caves  
     Chalk see QK938.L5  
 938.C55 Cloud forest plants  
 938.C6 Coasts  
 938.D4 Deserts  
 938.D9 Dunes  
 938.F6 Forests  
     Cf. QK938.C55 Cloud forest plants  
     Cf. QK938.M27 Mangrove forests and swamps  
     Cf. QK938.R34 Rain forests  
     Cf. QK938.T34 Taigas  
     Grasslands see QK938.P7  
 938.H4 Heathlands  
 938.H44 Hedges. Hegerows  
 938.I84 Islands  
 938.L5 Limestone, chalk, etc.  
 938.M27 Mangrove forests and swamps  
 938.M3 Marshes, bogs, swamps, etc.  
     Cf. QK938.M27 Mangrove forests and swamps  
     Cf. QK938.P42 Peat bogs  
 938.M4 Meadows, pastures  
 938.M45 Mediterranean-type plants  
     Cf. QK314.5 Mediterranean Region  
 938.M6 Moors  
 938.P3 Paramos  
     Pastures see QK938.M4; QK938.M45  
 938.P42 Peatlands. Peat bogs  
 938.P7 Prairies. Grasslands. Velds  
 938.R34 Rain forests  
 938.R6 Rocks  
 938.S27 Salt marshes. Tide marshes  
     Cf. QK922 Halophytes  
     Cf. QK938.M27 Margrove forests and swamps  
 938.S3 Sand barrens  
 938.S36 Seashore  
 938.S4 Semiarid regions  
 938.S45 Serpentine  
 938.S57 Shrublands  
     Swamps see QK938.M3  
 938.T34 Taigas  
     Tide marshes see QK938.S27  
 938.T8 Tundras  
     Velds see QK938.P7  
 938.V5 Vineyards  
 (940-977.5) Topographical divisions  
     see QK108+

## Plant ecology -- Continued

## Evolution of plants (General)

For works limited to specific divisions, classes, etc. see QK494+

For works limited to special crops see SB177.A+

980

General works

## Genetics

981

General works

981.3

Biochemical genetics

981.35

Cytogenetics

981.4

Molecular genetics

981.45

Genome mapping

981.5

Genetic engineering

981.7

Germplasm resources

Cf. SB123.3+ Crop germplasm resources

982

Hybridization

983

Variation

985

Selection, natural and artificial

For works limited to plant-breeding see SB123+

987

Degeneration

989

Phylogeny

## Zoology

For animal ecology see QH540+

For animal culture see SF1+

- 1 Periodicals, societies, congresses, serial publications
- 3 Collected works (nonserial)
- 5 Voyages and expeditions
- 7 Encyclopedias
- 9 Dictionaries
- Communication of information
- 9.2 General works
- 9.3 Information services
- 9.4 Computer network resources  
Including the Internet
- Classification. Nomenclature see QL351+
- 10 Terminology, notation, abbreviations  
Cf. QL353+ Nomenclature
- History
- 15 General works
- 21.A-Z By region or country, A-Z
- Biography
- 26 Collective
- 31.A-Z Individual, A-Z  
e.g.
- 31.A9 Audubon
- 31.C9 Cuvier
- 35 Directories
- General works and treatises
- 41 Early through 1759
- 45 1760-1969
- 45.2 1970-
- 46 Pictorial works and atlases
- 46.5 Zoological illustrating
- Textbooks
- Advanced
- 47 Through 1969
- 47.2 1970-
- Elementary
- 48 Through 1969
- 48.2 1970-
- 49 Juvenile works  
Cf. SF75.5 Domestic animals
- 50 Popular works  
For stories and anecdotes see QL791+
- 50.5 Zoology as a profession. Vocational guidance
- Study and teaching. Research
- 51 General works
- 51.2.A-Z By region or country, A-Z  
Each region or country subarranged by author
- 51.5 Problems, exercises, examinations
- 52 Outlines, syllabi
- 52.55 Activity programs
- 52.6 Experiments
- 53 Laboratory manuals  
Cf. QL812+ Anatomy  
Cf. QP44 Physiology

- Study and teaching. Research -- Continued
- 55 Laboratory animals  
 Class here general works only. Prefer systematic divisions for particular groups of animals  
 Cf. SF405.5+ Breeding and care  
 Cf. SF996.5 Diseases
- 57 Audiovisual aids
- 58 Other special
- 59 Wildlife attracting  
 Including gardening to attract wildlife
- 60 Wildlife watching  
 Including wildlife viewing sites
- 60.4 Radio tracking
- 60.5 Wildlife marking  
 Cf. QL645.6+ Amphibians and reptiles  
 Cf. QL677.5 Birds
- 60.7 Age determination
- Collection and preservation  
 Class here general works only. For works on collecting particular animals or the fauna of particular places, see systematic or geographical subdivisions in QL  
 Cf. QL465 Insects  
 Cf. QL677.7 Birds
- 61 General works, treatises, and textbooks
- Collecting techniques
- 62 General works
- 62.5 Immobilization  
 Cf. SF760.A55 Veterinary medicine
- 63 Taxidermy  
 Cf. QL618.6 Fish mounting
- 64 Models and modelmaking
- 67 Preservation techniques
- Laboratories, institutes, university departments, etc.  
 Class here descriptions, catalogs, annual reports, etc.  
 For serial research publications see QL1
- 69.A1 General works
- 69.A3-Z By region or country, A-Z  
 Subarrange each country by Table Q6
- Museums. Exhibitions  
 Class here descriptions, catalogs, annual reports, etc.  
 For serial research publications see QL1
- 71.A1 General works
- 71.A2-Z By region or country, A-Z  
 Subarrange each country by Table Q5
- 72 Commercial lists
- Menageries
- 73.A1 General works
- 73.A2-Z By region or country, A-Z  
 Subarrange each country by Table Q5
- Zoos. Zoological gardens
- 76 General works
- 76.5.A-Z By region or country, A-Z  
 Subarrange each country by Table Q5
- 77.5 Zoo animals  
 Cf. SF408+ Culture and care  
 Cf. SF995.84+ Veterinary medicine
- Public aquariums  
 Cf. SF456+ Home aquariums

- Public aquariums -- Continued
- 78 General and freshwater aquariums
- 78.5 Marine aquariums. Saltwater aquariums
- 79.A-Z By region or country, A-Z
- Subarrange each country by Table Q5
- 81 Addresses, essays, lectures
- Wildlife conservation. Rare animals. Endangered species. Wildlife refuges. Wildlife habitat improvement
- Including rare and endangered vertebrates
- For conservation of particular animals and groups of animals, see QL366+
- For habitat improvement of game animals see SK356.W54
- Cf. HE5620.W54 Wildlife and traffic safety
- Cf. QL676.5+ Bird refuges
- Cf. SK351+ Wildlife management (Hunting sports). Game protection
- Cf. SK590+ Wild animal trade
- 81.5 Periodicals. Societies. Congresses
- 81.7 History (General)
- For history of a particular place see QL84+
- 82 General works
- 83 Juvenile works
- 83.15 Study and teaching. Research
- 83.17 Wildlife monitoring
- For local see QL101+
- 83.2 Wildlife rescue
- Including wildlife relocation and replacement, rescue of injured or orphaned animals, etc.
- Cf. SF996.45 Wildlife rehabilitation
- 83.4 Wildlife reintroduction
- By region or country
- North America
- 84 General works
- United States
- 84.2 General works
- 84.22.A-Z By region or state, A-Z
- Canada
- 84.24 General works
- 84.26.A-Z By region or province, A-Z
- 84.28 Mexico
- Central America
- 84.285.A1 General works
- 84.285.A3-Z By region, country, or island, A-Z
- West Indies
- 84.29.A1 General works
- 84.29.A3-Z By region, country, or island, A-Z
- South America
- 84.3.A1 General works
- 84.3.A3-Z By region, country, or island, A-Z
- Europe
- 84.4.A1 General works
- 84.4.A3-Z By region, country, or island, A-Z
- Asia
- 84.5.A1 General works
- 84.5.A3-Z By region, country, or island, A-Z
- Africa
- 84.6.A1 General works
- 84.6.A3-Z By region, country, or island, A-Z
- Australia and Indo-Pacific islands

- Wildlife conservation. Rare animals. Endangered species. Wildlife refuges. Wildlife habitat improvement
- By region or country
- Australia and Indo-Pacific islands -- Continued
- 84.7.A1 Australia
- 84.7.A3-Z Other. By region, country, or island, A-Z
- 85 Animals and civilization. Human-animal relationships
- 86 Animal introduction. Introduced animals
- For local see QL101+
- Cf. QL606 Introduced vertebrates
- Cf. SB990+ Pest introduction
- Cf. SF87 Acclimatization of livestock
- 87 Animals in the ancient world
- Bible zoology see BS663
- 87.5 Dead animals
- Extinct animals
- Including extinction
- Cf. QL81.5+ Endangered animals
- Cf. QL676.8 Extinct birds
- Cf. QL707 Extinct mammals
- 88 General works
- 88.15.A-Z By region or country, A-Z
- Cryptozoology
- 88.3 General works
- 88.5 Living fossils
- Alleged animals
- Cf. BF1484 Animal ghosts
- Cf. GR705+ Animal folklore
- Cf. GR825+ Mythical animals
- Cf. GR910 Mermaids. Sea monsters
- 89 General works
- 89.2.A-Z By animal, A-Z
- Abominable snowman see QL89.2.Y4
- 89.2.B43 Beast of Exmoor
- 89.2.C37 Carcharocles megalodon
- Cf. QE852.L35 Paleozoology
- 89.2.C53 Champ (Monster)
- 89.2.C57 Chupacabras
- 89.2.D68 Dover demon
- 89.2.K73 Kraken
- 89.2.L6 Loch Ness monsters
- 89.2.M58 Mokele-mbembe
- 89.2.M6 Morag
- 89.2.M68 Mothman
- 89.2.O34 Ogopogo
- 89.2.R67 Ropen
- 89.2.S2 Sasquatch
- 89.2.S4 Sea serpents
- 89.2.S44 Serpents
- 89.2.Y4 Yeti
- Migratory animals see QL754
- (95) Noxious animals
- see SF84+
- 99 Medical zoology
- Cf. RA639+ Transmission of disease



- Dangerous animals. Poisonous animals
  - Cf. QL468.8 Insects
  - Cf. QL618.7 Fishes
  - Cf. QP631+ Toxins, venom, poisons
- 100 General works
- 100.5 Animal attacks
- Geographical distribution
- 101 General works, treatises, and textbooks
- Polar regions
  - 104 General works
  - 105 Arctic regions
    - Including Greenland
    - Cf. QL126 Arctic Ocean
  - 106 Antarctica
    - Cf. QL126.5 Antarctic Ocean
- 107 Temperate regions
- 109 Tropics
- Physiographic divisions
  - Soil
    - Cf. QR111+ Soil microorganisms
  - 110 General works
  - 110.5 Compost
  - Land
    - 111 Islands
      - Cf. QL125 Coral reefs
    - 112 Forests
    - 113 Mountains
      - Cf. QL254 Alps
    - 113.77 Valleys. Floodplains
    - Wetlands
      - 113.8 General works
      - 114 Marshes. Tidemarshes
      - 114.5 Swamps
      - 115 Plains
        - Grasslands. Prairies
          - 115.3 General works
          - 115.5 Meadows. Fields
        - 116 Deserts
        - 117 Caves
        - 118 Subterranean waters
          - Including groundwater
      - 119 Gardens
    - Water
      - 120 General works, treatises, and textbooks
      - 120.5 Suspension feeders
      - Ocean
        - 121 General works
        - 122 Popular works
        - 122.2 Juvenile works
        - 123 Zooplankton
        - (124) Animal ecology of the ocean
          - see QH541.5.S3
        - 125 Coral reefs
        - 125.5 Deep-sea
        - 125.6 Hydrothermal vents
        - 126 Arctic Ocean

- Geographical distribution
- Physiographic divisions
- Water
- Ocean -- Continued
- 126.5      Antarctic Ocean
- Atlantic Ocean
- 127          General works
- 128          North Atlantic Ocean. North Sea, etc.
- 131          Baltic Sea
- 132          Black Sea. Sea of Azov
- 133          Mediterranean Sea
- 134          Gulf of Mexico
- 134.5       Caribbean Sea
- 135          South Atlantic Ocean
- 137          Indian Ocean. Red Sea
- 137.5       Indo-Pacific Region
- 138          Pacific Ocean
- 139          Brackish water. Estuaries
- Fresh water
- 141          General works
- Groundwater see QL118
- 142          Water surface. Surface films. Neuston
- 143          Zooplankton
- 145          Streams
- 146          Lakes
- 146.3       Ponds
- 147          Springs
- Including hot springs
- 148          Wells
- 149          Stagnant water
- Topographical divisions (Faunas)
- America
- 150          General works
- North America
- 151          General works
- United States
- 155          General works
- 157.A-Z      By region, A-Z
- 157.A84      Atlantic Coast
- 157.M52      Middle Atlantic States
- 157.M53      Middle West
- 157.N48      New England
- 157.N67      Northeastern States
- 157.P33      Pacific Coast
- 157.S68      Southern States
- 157.S69      Southwestern States
- Including Southwest, New
- 159          Alabama
- 161          Alaska
- 162          Arizona
- 163          Arkansas
- 164          California
- 165          Colorado
- 166          Connecticut
- 167          Delaware
- 168          District of Columbia

Geographical distribution  
 Topographical divisions (Faunas)  
 America

North America

United States -- Continued

- |     |                     |
|-----|---------------------|
| 169 | Florida             |
| 171 | Georgia             |
|     | Hawaii see QL345.H3 |
| 172 | Idaho               |
| 173 | Illinois            |
| 175 | Indiana             |
| 176 | Iowa                |
| 177 | Kansas              |
| 178 | Kentucky            |
| 179 | Louisiana           |
| 181 | Maine               |
| 182 | Maryland            |
| 183 | Massachusetts       |
| 184 | Michigan            |
| 185 | Minnesota           |
| 186 | Mississippi         |
| 187 | Missouri            |
| 188 | Montana             |
| 189 | Nebraska            |
| 191 | Nevada              |
| 192 | New Hampshire       |
| 193 | New Jersey          |
| 194 | New Mexico          |
| 195 | New York            |
| 196 | North Carolina      |
| 197 | North Dakota        |
| 198 | Ohio                |
| 199 | Oklahoma            |
| 201 | Oregon              |
| 202 | Pennsylvania        |
| 203 | Rhode Island        |
| 204 | South Carolina      |
| 205 | South Dakota        |
| 206 | Tennessee           |
| 207 | Texas               |
| 208 | Utah                |
| 209 | Vermont             |
| 211 | Virginia            |
| 212 | Washington          |
| 213 | West Virginia       |
| 214 | Wisconsin           |
| 215 | Wyoming             |

Including Yellowstone National Park

Canada

- |         |                            |
|---------|----------------------------|
| 219     | General works              |
| 221.A-Z | By region or province, A-Z |

Latin America

- |     |                 |
|-----|-----------------|
| 223 | General works   |
| 225 | Mexico          |
|     | Central America |
| 227 | General works   |

- Geographical distribution
  - Topographical divisions (Faunas)
    - America
      - Latin America
        - Central America -- Continued
          - 228.A-Z By region or country, A-Z
          - West Indies. Caribbean Area
            - 229.A2 General works
            - 229.A4-Z By individual island or group of islands, A-Z
            - 229.A58 Antilles, Lesser
            - 229.B3 Bahamas
            - 229.C39 Cayman Islands
            - 229.C9 Cuba
            - 229.D65 Dominica
            - 229.H35 Haiti
            - 229.H57 Hispaniola
            - 229.I5 Inagua
            - 229.L4 Leeward Islands
            - 229.P6 Puerto Rico
            - 229.T7 Trinidad
            - 229.V57 Virgin Islands
            - 234 Bermuda
          - South America
            - 235 General works
            - By region or country
              - 239 Argentina
              - 241 Bolivia
              - 242 Brazil
              - 243 Chile
              - 244 Colombia
              - 245 Ecuador
                - For Galapagos Islands see QL345.G2
              - 246 Guyana (British Guiana)
              - 246.2 Suriname (Dutch Guiana)
              - 246.4 French Guiana
              - 247 Paraguay
              - 247.4 Paraná River
              - 248 Peru
              - 249 Uruguay
              - 251 Venezuela
          - Atlantic Ocean islands
            - 252.A1 General works
            - 252.A3-Z By individual island or group of islands, A-Z
              - Bermuda see QL234
              - Cabo Verde see QL252.C35
              - 252.C35 Cape Verde. Cabo Verde
              - 252.F32 Faroe Islands
        - Europe
          - 253 General works
          - 254 Regions not limited to a single country (not A-Z)
            - Including Alps, Balkan Peninsula, Baltic States, etc.
          - British Isles. Great Britain
            - 255 General works
            - 256 England
            - 257 Ireland
            - 257.5 Northern Ireland

## Geographical distribution

## Topographical divisions (Faunas)

## Europe

## British Isles. Great Britain -- Continued

- 258           Wales
- 259           Scotland
- 261           Austria
- 262           Hungary
- France
- 263           General works
- 264           Colonies and mandated territories
- 265           Germany
- 271           Greece
- 273           Italy
- 273.5        Malta
- 275           Netherlands
- 277           Belgium
- 278           Luxembourg
- 281           Russia. Soviet Union. Russia (Federation)
  - Cf. QL331 Russia in Asia. Siberia. Russian Far East
  - Cf. QL332+ Central Asia
  - Cf. QL333.7 Caucasus
- 282           Belarus
- 282.5        Moldova
- 283           Ukraine
- 284           Poland
- 285           Finland
- 286           Scandinavia (General)
- Denmark
- 287           General works
- Faroe Islands see QL252.F32
- 288           Iceland
- 289           Norway
- 291           Sweden
- 293           Spain
- 294           Portugal
  - Including the Azores, Madeira, etc.
- 296           Switzerland
- 297           Turkey in Europe
  - For Balkan Peninsula (General) see QL254
  - For individual Balkan countries see QL298.A+
  - For Turkey in Asia see QL333.5
- 298.A-Z      Other European countries, A-Z
- 298.B8      Bulgaria
- 298.C8      Czechoslovakia. Czech Republic
- 298.E86     Estonia
- 298.L3      Latvia
- 298.L58     Lithuania
- 298.R8      Romania
- 298.S65     Slovakia
- 298.Y8      Yugoslavia
- Asia
- 300           General works
- 304           Afghanistan
- 305           Arabian Peninsula (General)
  - For individual countries see QL334.A+

## Geographical distribution

## Topographical divisions (Faunas)

## Asia -- Continued

- (306) Baluchistan
- 307 China
- 307.2 Taiwan
- 308 East Indies
- 309 India
- Indochina. Malay Peninsula
- 312 General works
- 313 Vietnam
- 314 Cambodia
- 315 Laos
- 317 Thailand
- 318 Straits Settlements
- Malay Archipelago
- 319 General works
- 319.5 Borneo. Kalimantan
- 320 Brunei
- 321 Indonesia
- For Kalimantan see QL319.5
- For Papua see QL322.5
- 322 Malaysia
- 322.5 New Guinea
- Including Papua (Indonesia) and Papua New Guinea
- 323 Philippines
- Japan
- 325 General works
- 325.3 Ryukyu Islands
- Including Okinawa
- 327 Korea
- 329 Iran
- 331 Russia in Asia. Siberia. Russian Far East
- Central Asia
- 332 General works
- 332.3 Kazakhstan
- 332.4 Kyrgyzstan
- 332.5 Tajikistan
- 332.6 Turkmenistan
- 332.7 Uzbekistan
- 333 Israel. Palestine
- 333.3 Syria
- 333.5 Turkey in Asia. Asia Minor
- 333.7 Caucasus
- Including Armenia, Azerbaijan, Georgia (Republic)
- 334.A-Z Other regions or countries, A-Z
- (334.A75) Asia, Western
- see QL334.M53
- 334.B34 Bangladesh
- 334.B87 Burma. Myanmar
- 334.C4 Ceylon. Sri Lanka
- 334.M53 Middle East
- 334.M65 Mongolia
- 334.N44 Myanmar see QL334.B87
- 334.N44 Nepal
- 334.O53 Oman

## Geographical distribution

## Topographical divisions (Faunas)

## Asia

## Other regions or countries, A-Z -- Continued

334.P4

Pakistan

334.S28

Saudi Arabia

334.S56

Singapore

Sri Lanka see QL334.C4

(334.T87)

Turkmenistan

see QL332.6

## Africa

336

General works

337.A-Z

By region or country, A-Z

337.A44

Algeria

337.A5

Angola

337.B44

Benin

337.B68

Botswana. Bechuanaland

337.B8

British East Africa

337.B9

Burkina Faso. Upper Volta

337.B94

Burundi

337.C25

Cameroon

Cabo Verde see QL252.C35

337.C43

Central Africa

337.C44

Central African Republic

337.C48

Chad

337.C57

Congo (Brazzaville)

337.C58

Congo (Democratic Republic). Zaire

Côte d'Ivoire see QL337.I8

337.D53

Djibouti

337.E25

East Africa

337.E3

Egypt

337.E75

Equatorial Guinea

337.E76

Eritrea

337.E77

Eswatini

337.E8

Ethiopia

337.F7

French-speaking Equatorial Africa

337.F75

French-speaking West Africa

337.G32

Gabon

337.G34

Gambia

337.G56

Ghana

337.G77

Guinea

337.G8

Guinea-Bissau

337.I8

Ivory Coast. Côte d'Ivoire

337.K3

Kalahari Desert

337.K4

Kenya

337.L46

Lesotho

337.L7

Liberia

337.L72

Libya

337.L83

Luangwa Valley

337.M2

Malagasy Republic. Madagascar

337.M28

Malawi

337.M33

Mali

337.M37

Mauritania

Mauritius see QL337.6.M36

337.M65

Morocco

337.M7

Mozambique

## Geographical distribution

## Topographical divisions (Faunas)

## Africa

## By region or country, A-Z -- Continued

- 337.N27 Namibia
  - 337.N47 Niger
  - 337.N5 Nigeria
  - 337.N55 Nimba, Mount, Region
  - Rhodesia, Northern see QL337.Z3
  - 337.R4 Rhodesia, Southern. Zimbabwe
  - 337.R95 Rwanda
  - 337.S3 Sahara
  - 337.S34 Sao Tome and Principe
  - 337.S44 Senegal
  - Seychelles see QL337.6.S49
  - 337.S54 Sierra Leone
  - 337.S6 Somalia
  - 337.S65 South Africa
  - 337.S656 South Sudan
  - 337.S66 Southern Africa
  - Southwest Africa see QL337.N27
  - 337.S78 Sub-Saharan Africa
  - 337.S8 Sudan
  - (337.S93) Swaziland
    - see QL337.E77
  - 337.T27 Tanganyika, Lake
  - 337.T3 Tanzania
  - 337.T7 Togo
  - 337.T84 Tunisia
  - 337.U35 Uganda
  - 337.W4 West Africa
  - 337.W45 Western Sahara
  - 337.Z3 Zambia
  - Zimbabwe see QL337.R4
- Indian Ocean islands
- 337.5 General works
  - 337.6.A-Z By island or group of islands, A-Z
  - 337.6.M34 Maldives
  - 337.6.M36 Mauritius
  - 337.6.S49 Seychelles
- Australia
- 338 General works
  - 339.A-Z By state or territory, A-Z
- New Zealand
- 340 Including adjacent islands
- Pacific islands
- 345.A1 General works
  - 345.A3-Z By individual island or group of islands, A-Z
  - 345.C65 Cook Islands
  - 345.F53 Fiji
  - 345.G2 Galapagos Islands
  - 345.G83 Guam
  - 345.H3 Hawaii
  - 345.K47 Kermadec Islands
  - 345.M3 Marquesas Islands
  - 345.M34 Marshall Islands



- Geographical distribution
  - Topographical divisions (Faunas)
    - Pacific islands
      - By individual island or group of islands, A-Z -- Continued
      - 345.M53 Micronesia
      - 345.N3 New Caledonia
      - New Guinea see QL322.5
      - 345.P35 Palau
      - Ryukyu Islands see QL325.3
      - 345.T3 Tahiti
      - 345.T65 Tonga
      - Arctic regions, Antarctica see QL104+
      - Tropics see QL109
- Classification. Systematics and taxonomy
  - 351 Principles
  - 352 Systems
  - Nomenclature
    - 353 General works. Principles
    - 354 Nomenclators and checklists
    - 355 Popular names
  - Invertebrates
    - 360 Dictionaries and encyclopedias
    - 362 General works, treatises, and textbooks
    - 362.4 Juvenile works
    - Rare and endangered species
      - 362.45 General works
      - 362.46.A-Z By region or country, A-Z
    - 362.5 Classification
    - 362.7 Catalogs and collections
    - 362.75 Evolution
    - 362.8 Methods, culture, etc.
    - 362.85 Immunology
    - 362.9 Genetics
    - 363 Anatomy and morphology
    - 363.5 Metamorphosis
    - 363.8 Cytology
    - 364 Physiology
    - 364.15 Reproduction
    - 364.18 Development
      - Including larvae
    - 364.2 Behavior
    - 364.3 Feeding and feeds
    - 364.4 Ecology
    - 364.5 Coloniality. Animal colonies
      - Class here works on groupings of physically interconnected animals having a common ancestry through asexual reproduction
- 365 Animalcules. Early works on infusoria
  - Geographical distribution
    - For geographical distribution of systematic divisions, see the division, e. g. QL366+, Protozoa
  - 365.3 General works
  - Physiographic divisions
    - 365.34 Soil
    - Aquatic
      - 365.36 General works
      - 365.363 Marine
      - 365.365 Freshwater

## Invertebrates

## Geographical distribution -- Continued

## Topographic divisions

- 365.4 North America (United States and Canada) (Table Q3)
- Latin America
- 365.43 General works
- 365.44 Mexico, Central America, and West Indies (Table Q3)
- 365.45 South America (Table Q3)
- 365.46 Atlantic Ocean and islands (Table Q3)
- 365.47 Europe (Table Q3)
- 365.48 Asia (Table Q3)
- 365.5 Africa (Table Q3)
- 365.53 Indian Ocean and islands (Table Q3)
- 365.54 Australia
- 365.55 New Zealand
- 365.56 Pacific Ocean and islands. Oceania (Table Q3)
- 365.57 Arctic Ocean and regions
- 365.58 Antarctic Ocean and Antarctica
- 365.6 Tropics

## Protozoa

Cf. QR251+ Pathogenic protozoa

- 366 General works, treatises, and textbooks

- 366.5 Classification

## Geographical distribution

For geographical distribution of systematic divisions see QL368.A115+

- 367 General works
- 367.1 North America (United States and Canada) (Table Q3)
- 367.2 Mexico, Central America, and West Indies (Table Q3)
- 367.3 South America (Table Q3)
- 367.4 Europe (Table Q3)
- 367.5 Asia (Table Q3)
- 367.6 Africa (Table Q3)
- 367.7 Australia
- 367.75 New Zealand
- 367.8 Pacific islands (Table Q3)
- 367.9 Arctic regions
- 367.95 Antarctica
- 367.96 Tropics

## Systematic divisions

- 368.A115 Plasmodroma
- 368.A12 Mastigophora (Phytomastigia; Zoomastigia). Flagellata
- 368.A14 Sarcodina (Rhizopoda; Actinopoda)
- 368.A16 Apicomplexa (Sporozoa)
- 368.A18 Cnidosporidia
- 368.A2 Ciliophora
- 368.A22 Ciliata (Holotricha; Spirotricha; Peritricha)
- Suctoria see QL368.S9
- 368.A3-Z By order or higher taxa, A-Z
  - Class works on species, genera, and families by order
- 368.A32 Acantharia
- 368.A33 Acanthometrida
- 368.A335 Acanthophractida
- 368.A36 Aconchulinida
- 368.A38 Acrasida
- 368.A4 Actinomyxida
- 368.A44 Actinophryida

## Invertebrates

## Protozoa

## Systematic divisions

By order or higher taxa, A-Z -- Continued

368.A5	Amoebida
368.A57	Apostomatida
368.A63	Arcellinida
368.A66	Archigregarinida
368.A8	Astomatida
368.A85	Athalamida
368.B5	Bicosoecida
368.B55	Blastocystida
368.C4	Centrohelida
368.C48	Chloromonadida
368.C5	Choanoflagellatea. Choanoflagellida (Choanoflagellates)
368.C54	Chonotrichida
368.C57	Chrysomonadida
368.C59	Coccidia
368.C6	Coccolithophorida
368.C8	Cryptomonadida
	Ctenostomatida see QL368.O4
368.D4	Desmothoracida
(368.D6)	Dinoflagellida
	see QK569.D56
368.D65	Diplomonadida
368.E2	Ebriida
368.E5	Entodiniomorphida
(368.E9)	Euglenida
	see QK569.E93
368.E92	Eugregarinida
368.E95	Eumycetosoida
368.F6	Foraminiferida
368.G8	Gregarinida
368.G85	Gromiida
368.G9	Gymnostomatida
368.H33	Haemosporida
368.H34	Haplosporida
368.H4	Helicosporida
368.H5	Heliozoida
368.H53	Heterochlorida. Xanthomonadida
368.H55	Heterotrichida
368.H87	Hymenostomatida
368.H9	Hypermastigida
368.H95	Hypotrichida
	Infusoria see QL366
368.K5	Kinetoplastida
368.L3	Labyrinthulida
368.L62	Lobosa
368.M5	Microsporida
368.M78	Mycetozoida
368.M8	Myxosporida
368.N4	Neogregarinida
368.O3	Oculosida
368.O4	Odontostomatida. Ctenostomatida
368.O5	Oligotrichida
368.O7	Opalinida

## Invertebrates

## Protozoa

## Systematic divisions

By order or higher taxa, A-Z -- Continued

- 368.O9 Oxytomadida
- 368.P4 Peritrichida
- Phytomonadida see QL368.V6
- 368.P52 Piroplasmida
- 368.P55 Plasmodiophorida
- 368.P62 Polymastigida
- 368.P65 Porulosida
- 368.P7 Proteomyxida
- 368.P74 Protococcida
- Protomastigida see QL368.P76
- 368.P76 Protomonadida. Protomastigida
- 368.R2 Radiolarida
- 368.R43 Retortamonadida
- 368.R5 Rhizomastigida
- Sarcosporida see QL368.T6
- (368.S5) Silicoflagellida
  - see QK569.S53
- 368.S9 Suctorida
- 368.T4 Testacida
- 368.T5 Thigmotrichida
- 368.T55 Tintinnida
- 368.T6 Toxoplasmodida. Sarcosporida
- 368.T7 Trichomonadida
- 368.T76 Trichostomatida
- 368.V6 Volvocida. Phytomonadida
- Xanthomonadida see QL368.H53
- 368.X4 Xenophyophorida
- 368.Z66 Zooflagellates
- 369 Anatomy and morphology
- 369.2 Physiology
- Porifera (Sponges)
- 370.7 Periodicals, societies, congresses, serial collections
- 371 General works, treatises, and textbooks
- 371.2 Pictorial works and atlases
- 371.4 Popular works
- 371.6 Juvenile works
- Geographical distribution
  - For geographical distribution of systematic divisions see QL373.A+
- 372 General works
- 372.1 North America (United States and Canada) (Table Q3)
- 372.2 Mexico, Central America, and West Indies (Table Q3)
- 372.3 South America (Table Q3)
- 372.4 Europe (Table Q3)
- 372.5 Asia (Table Q3)
- 372.6 Africa (Table Q3)
- 372.7 Australia
- 372.75 New Zealand
- 372.8 Pacific islands (Table Q3)
- 372.9 Arctic regions
- 372.95 Antarctica
- 372.96 Tropics

## Invertebrates

## Porifera (Sponges) -- Continued

- 373.A-Z Systematic divisions. By class, A-Z  
 Class here works on species, genera, families and orders
- 373.C2 Calcispongiae (Calcarea)
- 373.D4 Demospongiae
- 373.H6 Hyalospongia (Hexactinellida)
- 374 Anatomy and morphology
- 374.2 Physiology

## Cnidaria

- 375 General works, treatises, and textbooks
- 375.2 Pictorial works and atlases
- 375.4 Popular works
- 375.6 Juvenile works
- Geographical distribution
- For geographical distribution of systematic divisions see QL377.A+
- 376 General works
- 376.1 North America (United States and Canada) (Table Q3)
- 376.2 Mexico, Central America, and West Indies (Table Q3)
- 376.3 South America (Table Q3)
- 376.4 Europe (Table Q3)
- 376.5 Asia (Table Q3)
- 376.6 Africa (Table Q3)
- 376.7 Australia
- 376.75 New Zealand
- 376.8 Pacific islands (Table Q3)
- 376.9 Arctic regions
- 376.95 Antarctica
- 376.96 Tropics

## 377.A-Z Systematic divisions. By class, A-Z

- Anthozoa (Corals)
- 377.C5 General works
- 377.C6 Alcyonaria
- 377.C7 Zoantharia
- Ctenophora see QL380+
- 377.H9 Hydrozoa (Hydromedusae; hydroids)
- 377.S4 Scyphozoa (Scyphomedusae; jellyfish)
- 378 Anatomy and morphology
- 378.2 Physiology
- 379 Zoophyta (old sense)

## Ctenophora

- 380 General works, treatises, and textbooks
- Geographical distribution
- For geographical distribution of systematic divisions see QL380.5.A+
- 380.3 General works
- 380.32 North America (United States and Canada) (Table Q3)
- 380.35 Mexico, Central America, and West Indies (Table Q3)
- 380.37 South America (Table Q3)
- 380.4 Europe (Table Q3)
- 380.42 Asia (Table Q3)
- 380.44 Africa (Table Q3)
- 380.46 Australasia and Indo-Pacific islands (Table Q3)
- 380.48 Polar regions
- 380.49 Tropics
- 380.5.A-Z Systematic divisions. By classes and orders
- Class works on species, genera, and families by order

## Invertebrates

## Ctenophora

Systematic divisions. By classes and orders -- Continued

380.5.N8-.N83

Nuda

380.5.N8

General works

380.5.N83

Beroida

380.5.T4-.T47

Tentaculata

380.5.T4

General works

380.5.T42

Cestida

380.5.T429

Cydippida

380.5.T45

Lobata

380.5.T47

Platyctenea

380.7

Anatomy and morphology

380.8

Physiology

## Echinodermata

381

General works, treatises, and textbooks

382

Classification

382.2

Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions see QL384.A+

383

General works

383.1

North America (United States and Canada) (Table Q3)

383.2

Mexico, Central America, and West Indies (Table Q3)

383.3

South America (Table Q3)

383.35

Atlantic islands (Table Q3)

383.4

Europe (Table Q3)

383.5

Asia (Table Q3)

383.6

Africa (Table Q3)

383.7

Australia

383.75

New Zealand

383.8

Pacific islands (Table Q3)

383.9

Arctic regions

383.95

Antarctica

383.96

Tropics

384.A-Z

Systematic divisions. By class, A-Z

Class works on species, genera, families, and orders by class

384.A8

Asteroidea (Starfishes)

384.C8

Crinoidea

384.E2

Echinoidea (Sea urchins)

384.H7

Holothurioidea (Sea cucumbers)

384.O6

Ophiuroidea (Brittle stars)

385

Anatomy and morphology

385.2

Physiology

## Worms and other vermiform invertebrates

386.A1

Periodicals, societies, congresses, serial publications

386.A3-Z

General works, treatises, and textbooks

Cf. QL392.A1+ Helminthology

386.6

Juvenile works

387

Classification

387.2

Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions see QL391.A+

388

General works, treatises, and textbooks

388.1

North America (United States and Canada) (Table Q3)

388.2

Mexico, Central America, and West Indies (Table Q3)

388.3

South America (Table Q3)

## Invertebrates

## Worms and other vermiform invertebrates

## Geographical distribution -- Continued

- 388.4 Europe (Table Q3)
- 388.5 Asia (Table Q3)
- 388.6 Africa (Table Q3)
- 388.7 Australia
- 388.75 New Zealand
- 388.8 Pacific islands (Table Q3)
- 388.9 Arctic regions
- 388.95 Antarctica
- 388.96 Tropics
- 391.A-Z Systematic divisions. By phylum, A-Z
- 391.A2 Acanthocephala (Spiny-headed worms)
- 391.A6 Annelida (Segmented worms)
- Cestoda see QL391.P7
- 391.C6 Chaetognatha (Arrowworms)
- 391.E2 Echiura
- 391.G2 Gastrotricha
- Gephyrea (Gastrotricha) see QL391.E2
- Gephyrea (Sipuncula) see QL391.S5
- 391.G63 Gnathostomulida
- Hirudinea see QL391.A6
- 391.K5 Kinorhyncha (Echinodera)
- 391.L67 Loricifera
- 391.M4 Mesozoa
  - Including Orthonectida and Rhombozoa
- 391.N4 Nematoda (Roundworms)
- 391.N5 Nematomorpha (Gordiaceae; horsehair worms)
- 391.N6 Nemertina (Rhynchocoela; ribbonworms)
- Oligochaeta see QL391.A6
- Onychophora see QL448+
- Orthonectida see QL391.M4
- Pentastomida see QL447.3
- 391.P5 Phoronida
- 391.P7 Platyhelminthes (Flatworms)
- (391.P85) Pogonophora
  - see QL391.A6
- 391.P93 Polychaeta see QL391.A6
- Priapulida
- Rhombozoa see QL391.M4
- 391.R8 Rotifera
- 391.S5 Sipuncula
- Trematoda see QL391.P7
- Turbellaria see QL391.P7

## Helminthology

For geographic treatment see QL388+

- 392.A1 Periodicals, societies, congresses, serial publications
- 392.A3-Z General works, treatises, and textbooks
- 393 Anatomy and morphology
- 394 Physiology
- Brachiopoda (Lamp shells)
- 395 General works, treatises, and textbooks
- 395.1 Classification
- 395.15 Catalogs and collectors

## Invertebrates

## Brachiopoda (Lamp shells) -- Continued

## Geographical distribution

For geographical distribution of systematic divisions see QL395.8.A+

- 395.2 North America (United States and Canada) (Table Q3)
- 395.23 Mexico, Central America, and West Indies (Table Q3)
- 395.25 South America (Table Q3)
- 395.3 Europe (Table Q3)
- 395.4 Asia (Table Q3)
- 395.5 Africa (Table Q3)
- 395.6 Australia
- 395.63 New Zealand
- 395.67 Pacific islands (Table Q3)
- 395.7 Arctic regions
- 395.75 Antarctica
- 395.76 Tropics
- 395.8.A-Z Systematic divisions. By family, A-Z

Class here works on species, genera, and families

For works on higher taxa, see QL395+

- 395.8.C7 Craniidae
- 395.8.L7 Lingulidae
- 395.8.R5 Rhynchonellidae
- 395.8.T39 Terebrataliidae
- 395.8.T4 Terebratulidae
- 395.9 Anatomy and morphology
- 395.95 Physiology

## Bryozoa (Ectoprocta; Polyzoa)

General works, treatises, and textbooks

Classification

Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions see QL398.A+

- 397 General works
- 397.1 North America (United States and Canada) (Table Q3)
- 397.2 Mexico, Central America, and West Indies (Table Q3)
- 397.3 South America (Table Q3)
- 397.4 Europe (Table Q3)
- 397.5 Asia (Table Q3)
- 397.6 Africa (Table Q3)
- 397.7 Australia
- 397.75 New Zealand
- 397.8 Pacific islands (Table Q3)
- 397.9 Arctic regions
- 397.95 Antarctica
- 397.96 Tropics
- 398.A-Z Systematic divisions. By order, A-Z

Class here works on species, genera, families, and orders

Class higher taxa in+

- 398.C5 Cheilostomata
- 398.C8 Ctenostomata
- 398.C9 Cyclostomata
- Ectoprocta see QL396+
- Entoprocta see QL400+
- 398.L6 Lophopoda
- 399 Anatomy and morphology
- 399.2 Physiology



## Invertebrates -- Continued

## Entoprocta (Callyssozoa; Endoprocta)

- 400 General works, treatises, and textbooks  
 Geographical distribution  
     For geographical distribution of systematic divisions see QL400.5.A+
- 400.3 General works
- 400.32 North America (United States and Canada) (Table Q3)
- 400.35 Mexico, Central America, and West Indies (Table Q3)
- 400.37 South America (Table Q3)
- 400.4 Europe (Table Q3)
- 400.42 Asia (Table Q3)
- 400.44 Africa (Table Q3)
- 400.46 Australasia and the Indo-Pacific islands (Table Q3)
- 400.48 Polar regions
- 400.49 Tropics
- 400.5.A-Z Systematic divisions. By family, A-Z  
     Class here works on species, genera, and families  
     Class higher taxa in QL400+
- 400.5.L6 Loxosomatidae
- 400.5.P4 Pedicellinidae
- 400.5.U7 Urnatellidae

## Mollusca

- Cf. SH365+ Oyster culture and fisheries
- 401 Periodicals, societies, congresses, serial publications
- 402 Collected works (nonserial)
- 402.3 Dictionaries and encyclopedias
- 403 General works, treatises, and textbooks
- 404 Pictorial works and atlases
- 405 Popular works
- 405.2 Juvenile works
- Rare and endangered species
- 405.4 General works
- 405.43.A-Z By region or country, A-Z
- 406 Classification
- 406.2 Catalogs and collections
- 406.5 Collection and preservation
- 406.55 Museums. Exhibitions
- 406.7 Evolution. Phylogeny. Speciation
- Geographical distribution  
     For geographic distribution of systematic divisions see QL430.1+
- Physiographic divisions
- Land
- 407 General works
- 407.5 Freshwater
- Marine  
     For mollusks of particular coasts and islands see QL411+
- 408 General works
- 408.2 Atlantic Ocean  
     Cf. QL424.5 Atlantic islands
- 408.5 Pacific Ocean  
     Cf. QL428.5 Pacific islands
- 408.7 Indian Ocean
- Topographical divisions
- North America
- 411 General works
- 413 Canada

## Invertebrates

## Mollusca

## Geographical distribution

## Topographical divisions

## North America -- Continued

## United States

- 414 General works
- 415.A-Z By region or state, A-Z
- 416 Atlantic Coast
- 417 Pacific Coast
- (418) Pacific islands
  - see QL428.5
- 419 Gulf Coast
- Latin America
- 420 General works
- 421 Mexico
- 422 Central America (Table Q3)
- 423 West Indies (Table Q3)
- 424 South America (Table Q3)
- 424.5 Atlantic islands (Table Q3)
- 425 Europe (Table Q3)
- 426 Asia (Table Q3)
- 427 Africa (Table Q3)
- 428 Australia
- 428.2 New Zealand
- 428.5 Pacific islands (Table Q3)
- 429 Arctic regions
- 429.5 Antarctica
- 429.6 Tropics

## Systematic divisions

## Aplacophora (Solenogasters)

- 430.12 General works and orders
- 430.12.A-Z By family, A-Z
- 430.12.P76 Proneomeniidae
- Polyplacophora (Chitons)
- 430.13 General works and orders
- 430.14.A-Z By family, A-Z
  - 430.14.A26 Acanthochitonidae
  - 430.14.C47 Chitonidae
  - 430.14.I83 Ischnochitonidae
  - 430.14.M64 Mopaliidae
- 430.15 Monoplacophora

## Cephalopoda

- 430.2 General works and orders
- 430.3.A-Z By family, A-Z
  - 430.3.A73 Architeuthidae
  - 430.3.B3 Bathyteuthidae
  - 430.3.C72 Cranchiidae
  - 430.3.C9 Cycloteuthidae
  - 430.3.E56 Enoploteuthidae
  - 430.3.G66 Gonatidae
  - 430.3.J68 Joubiniteuthidae
  - 430.3.L8 Loliginidae
  - 430.3.N4 Nautilidae
  - 430.3.O2 Octopodidae (Octopuses)
  - 430.3.O5 Ommastrephidae

## Invertebrates

## Mollusca

## Systematic divisions

## Cephalopoda

## By family, A-Z -- Continued

- 430.3.O6 Onychoteuthidae
- 430.3.S47 Sepiidae
- 430.3.S49 Sepiolidae (Bobtail squids)
- 430.3.S65 Spirulidae
- 430.3.V35 Vampyroteuthidae

## Gastropoda (Snails)

- 430.4 General works and orders

430.5.A-Z

## By family, A-Z

- 430.5.A18 Abalones see QL430.5.H34
- 430.5.A2 Abyssochrysidae
- 430.5.A22 Achatinellidae
- 430.5.A23 Achatinidae
- 430.5.A23 Aciculidae
- 430.5.A24 Aclididae
- 430.5.A26 Acmaeidae
- 430.5.A28 Acroloxidae
- 430.5.A29 Actaeonidae
- 430.5.A45 Aeolidiidae
- 430.5.A5 Amastridae
- Amnicolidae see QL430.5.H9
- 430.5.A57 Ampullariidae
- 430.5.A63 Ancyliidae
- 430.5.A65 Annulariidae
- 430.5.A66 Aplysiidae
- 430.5.A69 Architectonicidae
- 430.5.A7 Arionidae
- 430.5.A74 Arminidae
- 430.5.A8 Atlantidae
- 430.5.A85 Atyidae
- Auriculidae see QL430.5.E45
- 430.5.B37 Batillariidae
- 430.5.B58 Bithyniidae
- 430.5.B73 Bradybaenidae
- 430.5.B75 Buccinidae
- 430.5.B8 Bulimulidae
- 430.5.B84 Bulinidae
- 430.5.B87 Busyconidae
- 430.5.C18 Caecidae
- 430.5.C22 Calyptraeidae
- 430.5.C25 Camaenidae
- 430.5.C26 Cancellariidae
- 430.5.C3 Cassidae
- 430.5.C35 Cavolinidae
- 430.5.C38 Cerionidae
- 430.5.C4 Cerithiidae
- 430.5.C43 Cerithiopsidae
- 430.5.C49 Chilidae
- (430.5.C53) Chondropomatidae
- see QL430.5.A65
- 430.5.C56 Chromodorididae
- 430.5.C57 Clausiliidae

## Invertebrates

## Mollusca

## Systematic divisions

## Gastropoda (Snails)

## By family, A-Z -- Continued

430.5.C6	Clionidae
430.5.C73	Columbellidae
430.5.C75	Conidae
	Cowries see QL430.5.C94
430.5.C82	Cyclophoridae
	Cyclostomidae see QL430.5.P63
	Cylindrellidae see QL430.5.U68
(430.5.C93)	Cymatiidae
	see QL430.5.R35
430.5.C94	Cypraeidae (Cowries)
430.5.D43	Diastomatidae
430.5.D55	Dolabriferidae
430.5.D6	Dorididae
430.5.E45	Ellobiidae
430.5.E48	Elysiidae
430.5.E5	Endodontidae
(430.5.E55)	Entoconchidae
	see QL430.5.E9
430.5.E6	Epitoniidae
430.5.E9	Eulimidae
430.5.F2	Fasciolaridae
430.5.F53	Ficidae
430.5.F57	Fissurellidae
430.5.F58	Flabellinidae
430.5.G34	Gadiniidae
430.5.H34	Haliotidae (Abalones)
430.5.H37	Helicarionidae
430.5.H4	Helicidae
430.5.H45	Helicindae
430.5.H46	Helminthoglyptidae
	Hermaeidae see QL430.5.S75
430.5.H9	Hydrobiidae
430.5.J3	Janellidae
(430.5.J36)	Janthinidae
	see QL430.5.E6
430.5.J8	Juliidae
(430.5.L2)	Lamellariidae
	see QL430.5.V385
430.5.L33	Lepetidae
430.5.L4	Limacidae
	Limnaeidae see QL430.5.L85
430.5.L58	Littorinidae
430.5.L85	Lymnaeidae
430.5.M3	Marginellidae
	Melaniidae see QL430.5.T45
430.5.M44	Melanopsidae
430.5.M47	Melongenidae
430.5.M57	Mitridae
430.5.M9	Muricidae
430.5.N27	Nacellidae
430.5.N3	Nassariidae

## Invertebrates

## Mollusca

## Systematic divisions

## Gastropoda (Snails)

## By family, A-Z -- Continued

430.5.N35	Naticidae
430.5.N5	Neritidae
430.5.O5	Olividae
430.5.O73	Oreohelicidae
430.5.O78	Orthalicidae
430.5.P15	Partulidae
430.5.P18	Patellidae
430.5.P2	Personidae
430.5.P23	Phasianellidae
430.5.P25	Philomycidae
430.5.P33	Phyllidiidae
430.5.P35	Phylliroidae
430.5.P37	Physidae
430.5.P46	Planaxidae
430.5.P48	Planorbidae
430.5.P49	Pleurobranchidae
430.5.P5	Pleuroceridae
430.5.P6	Polygyridae
430.5.P63	Pomatiidae
430.5.P64	Pomatiopsidae
430.5.P68	Potamididae
	Proserpinidae see QL430.5.H45
430.5.P9	Pupillidae
430.5.P92	Pupinidae
430.5.P95	Pyramidellidae
430.5.R35	Ranellidae
430.5.R45	Rhodopidae
430.5.R48	Rhytididae
430.5.R57	Rissoidae
	Scalariidae see QL430.5.E6
430.5.S25	Scissurellidae
430.5.S56	Siphonariidae
430.5.S65	Spiraxidae
(430.5.S74)	Stiliferidae
	see QL430.5.E9
430.5.S75	Stiligeridae
430.5.S78	Streptaxidae
430.5.S8	Strombidae
430.5.S83	Strophocheilidae
430.5.S87	Succineidae (Ambersnails)
430.5.T25	Terebridae
430.5.T3	Testacellidae
430.5.T35	Tethyidae
430.5.T45	Thiaridae
430.5.T63	Tonnidae
430.5.T65	Tornidae
430.5.T67	Tricoliidae
430.5.T7	Tritoniidae
430.5.T75	Trochidae
430.5.T78	Truncatellidae
430.5.T85	Turbinellidae

## Invertebrates

## Mollusca

## Systematic divisions

## Gastropoda (Snails)

## By family, A-Z -- Continued

- 430.5.T9 Turbinidae  
 430.5.T95 Turridae  
 430.5.T96 Turritellidae (Turretsnails, wormsnails)  
 430.5.U68 Urocoptidae  
 430.5.U7 Urocyclidae  
 430.5.V34 Vaginulidae see QL430.5.V4  
 430.5.V36 Valloniidae  
 (430.5.V37) Valvatidae  
 Vasidae  
     see QL430.5.T85  
 430.5.V385 Velutinidae  
 430.5.V4 Veronicellidae  
 (430.5.V65) Vitronellidae  
     see QL430.5.T65  
 430.5.V7 Viviparidae  
 430.5.V75 Volutidae  
 430.5.V77 Volutomitridae  
 430.5.X46 Xenophoridae  
 430.5.Z6 Zonitidae
- Bivalvia (Lamellibranchia; pelecypoda; clams)  
 General works and orders  
 By family, A-Z  
 430.7.A34 Amblemidae  
 430.7.A4 Anatinidae  
 430.7.A72 Arcidae  
 430.7.A74 Arctidae  
 430.7.A8 Astartidae  
 430.7.C2 Cardiidae  
 430.7.C24 Carditidae  
 430.7.C53 Chamidae  
 430.7.C67 Corbiculidae  
 430.7.C69 Corbulidae  
 430.7.C8 Crassatellidae  
 Cyrenidae see QL430.7.C67  
 430.7.D55 Dimyidae  
 430.7.D65 Donacidae  
 430.7.D8 Dreissenidae  
 430.7.G23 Gastrochaenidae  
 430.7.G55 Glossidae  
 430.7.G78 Gryphaeidae  
 430.7.H53 Hiatellidae  
 430.7.H87 Hyriidae  
 430.7.L35 Lametilidae  
 430.7.L4 Ledidae  
 430.7.L5 Limidae  
 430.7.L8 Lucinidae  
 430.7.M3 Mactridae  
 430.7.M37 Margaritiferidae  
 430.7.M85 Mycetopodidae  
 430.7.M9 Myidae  
 430.7.M95 Mytilidae

## Invertebrates

## Mollusca

## Systematic divisions

## Bivalvia (Lamellibranchia; pelecypoda; clams)

## By family, A-Z -- Continued

- 430.7.N63 Noetiidae
- 430.7.N85 Nuculanidae
- 430.7.N9 Nuculidae
- 430.7.O9 Ostreidae (Oysters)
- 430.7.P3 Pectinidae
- 430.7.P48 Philobryidae
- 430.7.P5 Pholadidae
- 430.7.P56 Pinnidae
- (430.7.P59) Pisidiidae
- see QL430.7.S65
- 430.7.P7 Pristiglomidae
- 430.7.P75 Psammobiidae
- 430.7.P77 Pteriidae (Pearl oysters)
- 430.7.S43 Semelidae
- 430.7.S5 Siliculidae
- 430.7.S58 Solemyidae
- 430.7.S6 Solenidae (Razor clams)
- 430.7.S65 Sphaeriidae
- 430.7.S68 Spondylidae
- 430.7.T3 Tellinidae
- 430.7.T4 Teredinidae
- 430.7.T47 Thraciidae
- 430.7.T55 Tindariidae
- 430.7.T7 Tridacnidae
- 430.7.U6 Unionidae
- 430.7.V5 Veneridae

430.8 Scaphopoda (Tusk shells)

431 Anatomy and morphology

431.2 Physiology

431.3 Reproduction and spawning

431.4 Behavior

432 Miscellany and curiosa

## Arthropoda

434.A1 Periodicals, societies, congresses, serial publications

434.A3-Z General works, treatises, and textbooks

434.13 Pictorial works and atlases

434.14 Popular works

434.15 Juvenile works

434.2 Classification

434.3 Catalogs and collections

434.35 Evolution. Speciation

434.4 Study and teaching. Research

434.45 Poisonous arthropods. Dangerous arthropods

## Geographical distribution

For geographical distribution of systematic divisions, see the division below

434.5 General works

434.52 North America (United States and Canada) (Table Q3)

434.53 Mexico, Central America, and West Indies (Table Q3)

434.54 South America (Table Q3)

434.55 Europe (Table Q3)

434.56 Asia (Table Q3)

## Invertebrates

## Arthropoda

## Geographical distribution -- Continued

- 434.57 Africa (Table Q3)
- 434.58 Australasia and Indo-Pacific islands (Table Q3)
- 434.59 Polar regions
- 434.6 Tropics
- 434.7 Anatomy and morphology
- 434.715 Cytology
- 434.72 Physiology
- 434.8 Behavior

## Crustacea

- 435.A1 Periodicals, societies, congresses, serial publications
- 435.A3-Z General works, treatises, and textbooks
- 436 Pictorial works and atlases
- 437 Popular works
- 437.2 Juvenile works
- 438 Classification
- 438.2 Catalogs and collections
- 438.5 Evolution. Phylogeny

## Geographical distribution

For geographical distribution of systematic divisions see QL444.A+

- 441 General works
- 441.1 North America (United States and Canada) (Table Q3)
- 441.2 Mexico, Central America, and West Indies (Table Q3)
- 441.3 South America (Table Q3)
- 441.4 Europe (Table Q3)
- 441.5 Asia (Table Q3)
- 441.6 Africa (Table Q3)
- 441.7 Australia
- 441.75 New Zealand
- 441.8 Pacific islands (Table Q3)
- 441.9 Arctic regions
- 441.95 Antarctica
- 441.96 Tropics

## Systematic divisions. By subclasses and orders, A-Z

Class here works on species, genera, and families by order

## Branchiopoda

- 444.B8 General works
- 444.B815 Anostraca (Fairy shrimps)
- 444.B83 Cladocera (Water fleas)
- 444.B834 Conchostraca (Clam shrimps)
- 444.B86 Notostraca (Tadpole shrimps)

444.B9 Branchiura (Fish lice)

444.C4 Cephalocarida

## Cirripedia

- 444.C5 General works
- 444.C52 Acrothoracica
- 444.C527 Ascothoracica
- 444.C57 Rhizocephala
- 444.C58 Thoracica (Barnacles)

## Copepoda

- 444.C7 General works
  - 444.C72 Calanoida
  - (444.C722) Caligoida
- see QL444.C79



## Invertebrates

## Arthropoda

## Crustacea

## Systematic divisions. By subclasses and orders, A-Z

## Copepoda -- Continued

- 444.C73 Cyclopoida
- 444.C74 Harpacticoida
- 444.C75 Lernaepodoida
- 444.C756 Monstrilloida
- 444.C76 Notodelphyoida
- 444.C78 Poecilostomatoida
- 444.C79 Siphonostomatoida

## Entomostraca see QL435+

## Malacostraca

- 444.M3 General works
- 444.M315 Amphipoda (Sand hoppers; whale lice)
- 444.M317 Anaspidacea
- 444.M32 Bathynellacea
- 444.M328 Cumacea
- 444.M33 Decapoda (Shrimps; lobsters; crabs)
- 444.M338 Euphausiacea
- 444.M34 Isopoda (Pill bugs; wood lice)
- 444.M347 Leptostraca
- 444.M35 Mysidacea (Opossum shrimps)
- 444.M37 Spelaeogriphacea
- 444.M375 Stomatopoda
- 444.M378 Stygocaridacea
- 444.M38 Tanaidacea
- 444.M384 Thermosbaenacea
- 444.M9 Mystacocarida

## Ostracoda (Seed shrimps)

- 444.O8 General works
- 444.O83 Halocyprida
- 444.O85 Myodocopida
- 444.O86 Podocopida

## 445 Anatomy and morphology

## 445.2 Physiology

## 447 Pycnogonida (Pantopoda)

## 447.3 Pentastomida (Linguatulida; tongue worms)

## 447.5 Tardigrada (Water bears)

## 447.7 Merostomata (Xiphosura)

## Onychophora (Velvet worms)

## 448 General works

## Geographical distribution

For geographical distribution of systematic divisions see QL448.5-.55

## 448.3 General works

## 448.32 North America (United States, Canada, and Greenland) (Table Q3)

## 448.35 Mexico, Central America, and West Indies (Table Q3)

## 448.37 South America (Table Q3)

## 448.4 Europe (Table Q3)

## 448.42 Atlantic islands (Table Q3)

## 448.43 Asia (Table Q3)

## 448.44 Africa (Table Q3)

## 448.45 Indian Ocean islands (Table Q3)

## 448.46 Australasia (Australia, New Zealand, New Guinea, and neighboring islands) (Table Q3)

## Invertebrates

## Arthropoda

## Onychophora (Velvet worms)

## Geographical distribution -- Continued

448.47

Pacific islands (Table Q3)

Polar regions

448.48

General works

448.483

Arctic regions

448.485

Antarctica

448.49

Tropics

## Systematic divisions

Class here works on species, genera, and families by family; higher taxa by class

## Udeonychophora

448.5

General works and orders

448.55.A-Z

By family, A-Z

448.55.P47

Peripatidae

448.55.P48

Peripatopsidae

## Myriapoda

449

General works, treatises, and textbooks

## Geographical distribution

For geographical distribution of systematic divisions see QL449.5+

449.3

General works

449.32

North America (United States and Canada) (Table Q3)

449.35

Mexico, Central America, and West Indies (Table Q3)

449.37

South America (Table Q3)

449.4

Europe (Table Q3)

449.42

Asia (Table Q3)

449.44

Africa (Table Q3)

449.46

Australasia and Indo-Pacific islands (Table Q3)

449.48

Polar regions

449.49

Tropics

## Systematic divisions

Class here works on species, genera, and families by family; high taxa by class

## Chilopoda (Centipedes)

449.5

General works and orders

449.55.A-Z

By family, A-Z

449.55.C4

Cermatobiidae

449.55.C7

Craterostigmidae

449.55.C78

Cryptopidae

449.55.D5

Dignathodontidae

449.55.E8

Ethopolyidae

449.55.G4

Geophilidae

449.55.G66

Gonibregmatidae

449.55.G68

Gosibiidae

449.55.H4

Henicopidae

449.55.H5

Himantariidae

449.55.L5

Lithobiidae

449.55.M4

Mecistocephalidae

449.55.N4

Neogeophilidae

449.55.O7

Oryidae

449.55.S25

Schendylidae

449.55.S3

Scolopendridae

449.55.S37

Scutigerae

449.55.S63

Sogonidae

449.55.S66

Soniphilidae

449.55.W3

Watobiidae

## Invertebrates

## Arthropoda

## Myriapoda

## Systematic divisions -- Continued

## Diplopoda (Millipedes)

- 449.6 General works and orders
- 449.65.A-Z By family, A-Z
- 449.65.A6 Andrognathidae
- 449.65.A8 Atopetholidae
- 449.65.B4 Blaniulidae
- 449.65.C24 Callipodidae
- 449.65.C25 Cambalidae
- 449.65.C28 Caseyidae
- 449.65.C37 Chelodesmidae
- 449.65.C4 Chordeumidae
- 449.65.C5 Cleidogonidae
- 449.65.C6 Conotylidae
- 449.65.C72 Craspedosomidae
- 449.65.C79 Cryptodesmidae
- 449.65.E87 Eurymerodesmidae
- 449.65.E878 Euryuridae
- 449.65.G4 Gervaisiidae
- 449.65.G5 Glomeridae
- 449.65.G53 Glomeridesmidae
- 449.65.H37 Harpagophoridae
- 449.65.J8 Julidae
- 449.65.L4 Leioderidae
- 449.65.L9 Lysiopetalidae
- 449.65.N4 Nearctodesmidae
- 449.65.O6 Oniscodesmidae
- 449.65.O95 Oxydesmidae
- 449.65.P18 Pachybolidae
- 449.65.P22 Paeromopidae
- 449.65.P27 Paradoxsomatidae
- 449.65.P273 Paraiulidae
- 449.65.P42 Platydesmidae
- 449.65.P427 Platyrrhacidae
- 449.65.P64 Polydesmidae
- 449.65.P648 Polyxenidae
- 449.65.P649 Polyzoniidae
- 449.65.R4 Rhinocricidae
- 449.65.S56 Siphoniulidae
- 449.65.S565 Siphonophoridae
- 449.65.S64 Sphaeriodesmidae
- 449.65.S645 Sphaerotheridae
- 449.65.S65 Spirobolidae
- 449.65.S655 Spirostreptidae
- 449.65.S88 Strongylosomidae see QL449.65.P27
- 449.65.S95 Stylodesmidae
- 449.65.T56 Synxenidae
- 449.65.T75 Tingupidae
- 449.65.V34 Trichopolydesmidae
- 449.65.X9 Vanhoeffeniidae
- Xystodesmidae
- 449.7 Pauropoda
- General works

- Invertebrates
  - Arthropoda
    - Myriapoda
      - Systematic divisions
        - Pauropoda -- Continued
          - By family, A-Z
            - 449.75.A-Z Brachypauropodidae
            - 449.75.B7 Eurypauropodidae
            - 449.75.E8 Pauropodidae
            - 449.75.P3
          - Symphyla
            - 449.8 General works
            - 449.85.A-Z By family, A-Z
              - 449.85.G4 Geophilellidae
              - 449.85.S25 Scolopendrellidae
              - 449.85.S3 Scutigereidae
            - 449.9 Anatomy and morphology
            - 449.92 Physiology
          - Arachnida (Scorpions; spiders; mites; etc.)
            - 451 General works, treatises, and textbooks
            - 452 Popular works
            - 452.2 Juvenile works
            - 452.8 Classification
            - 453 Catalogs and collections
            - Geographical distribution
              - For geographical distribution of systematic divisions see QL458+
              - 453.1 North America (United States and Canada) (Table Q3)
              - 453.2 Mexico, Central America, and West Indies (Table Q3)
              - 453.3 South America (Table Q3)
              - 453.35 Atlantic islands (Table Q3)
              - 453.4 Europe (Table Q3)
              - 453.5 Asia (Table Q3)
              - 453.6 Africa (Table Q3)
              - Australasia
                - 453.68 General works
                - 453.7 Australia
                - 453.75 New Zealand
                - 453.8 Pacific islands (Table Q3)
                - 453.9 Arctic regions
                - 453.95 Antarctica
                - 453.96 Tropics
          - Systematic divisions
            - Acari (Acarina). Mites
              - 458 General works
              - 458.15.A-Z By order, A-Z
                - 458.15.A33 Acariformes
                - 458.15.O65 Notostigmata see QL458.15.O65
                - 458.15.P37 Opilioacariformes
              - 458.2.A-Z By family, A-Z
                - 458.2.A3 Acaridae
                - 458.2.A44 Alloptidae
                - 458.2.A45 Ameronothridae
                - 458.2.A5 Analgidae
                - 458.2.A58 Anystidae
                - 458.2.A74 Argasidae
                - 458.2.A77 Arrenuridae

## Invertebrates

## Arthropoda

## Arachnida (Scorpions; spiders; mites; etc.)

## Systematic divisions

## Acari (Acarina). Mites

## By family, A-Z -- Continued

458.2.B4	Bdellidae
458.2.B7	Brachychthoniidae
458.2.C28	Caeculidae
458.2.C3	Carpoglyphidae
458.2.C37	Cercomegistidae
458.2.C39	Chaetodactylidae
458.2.C4	Cheyletidae
458.2.C8	Cunaxidae
458.2.C9	Cytoditidae
458.2.D45	Demodicidae
458.2.D47	Dermanyssidae
458.2.D475	Dermoglyphidae
458.2.D56	Diptilomiopidae
458.2.E45	Echimyopodidae
458.2.E6	Epidermoptidae
458.2.E73	Eremaeidae
458.2.E75	Eriophyidae
458.2.E78	Erythraeidae
458.2.E8	Eupodidae
458.2.E84	Eustathiidae
458.2.E9	Eylaidae
458.2.F3	Falculiferidae
458.2.G34	Galumnidae
	Gamasidae see QL458.2.P3
458.2.G4	Glycyphagidae
458.2.H3	Halacaridae
458.2.H38	Hermanniidae
458.2.H4	Heterocheylidae
458.2.H9	Hydrachnidae
458.2.H98	Hydryphantidae
458.2.I9	Ixodidae
458.2.K5	Knemidokoptidae
458.2.L3	Labidocarpidae
458.2.L33	Laelapidae
458.2.L44	Leeuwenhoekiidae
458.2.L54	Limnocharidae
458.2.L58	Listrophoridae
458.2.L67	Lordalycidae
458.2.M3	Macronyssidae
458.2.M53	Microtrombidiidae
458.2.M9	Myobiidae
458.2.M93	Myocoptidae
458.2.N67	Nothridae
458.2.O74	Oribatidae
458.2.P3	Parasitidae
458.2.P35	Penthaleidae
458.2.P37	Phytoptidae
458.2.P4	Phytoseiidae
458.2.P44	Pionidae
458.2.P6	Podapolipodidae

## Invertebrates

## Arthropoda

## Arachnida (Scorpions; spiders; mites; etc.)

## Systematic divisions

## Acari (Acarina). Mites

## By family, A-Z -- Continued

458.2.P65 Pontarachnidae  
 458.2.P74 Proctophyllodidae  
 458.2.P8 Psoroptidae  
 458.2.P85 Pterolichidae  
 458.2.P87 Pterygosomatidae  
 458.2.P9 Pyemotidae  
 458.2.P95 Pyroglyphidae  
 458.2.R36 Raphignathidae  
 458.2.R45 Rhagidiidae  
 458.2.R47 Rhodacaridae  
 458.2.R66 Rosensteiniidae  
 458.2.S25 Sarcoptidae  
 458.2.S3 Scutacaridae  
 458.2.S7 Sperchonidae  
 458.2.S75 Spinturnicidae  
 458.2.S8 Stigmaeidae  
 458.2.S89 Syringobiidae  
 458.2.S9 Syringophilidae  
 458.2.T3 Tarsonemidae  
 458.2.T36 Tenuipalpidae  
 458.2.T4 Tetranychidae (Spider mites)  
 458.2.T5 Thyasidae  
 458.2.T7 Trachytidae  
 458.2.T75 Trombiculidae  
 458.2.T76 Trombididae  
 458.2.U5 Unionicolidae  
 458.2.U7 Uropodidae  
 458.2.V37 Varroidae  
 458.2.X65 Xolalgidae  
 458.2.Z4 Zerconidae

## Amblypygi (Phrynichida)

458.3 General works  
 458.32.A-Z By family, A-Z  
 458.32.C4 Charonidae  
 458.32.P56 Phrynichidae  
 458.32.P57 Phrynidae  
 458.32.T3 Tarantulidae

## Araneae (Araneida). Spiders

458.4 General works  
 Geographical distribution  
 458.41 North America (United States, Canada, and Greenland) (Table Q3)  
 458.412 Mexico, Central America, and West Indies (Table Q3)  
 458.413 South America (Table Q3)  
 458.4135 Atlantic islands (Table Q3)  
 458.414 Europe (Table Q3)  
 458.415 Asia (Table Q3)  
 458.416 Africa (Table Q3)  
 458.4165 Indian Ocean islands (Table Q3)  
 Australasia  
 458.417 General works

## Invertebrates

## Arthropoda

## Arachnida (Scorpions; spiders; mites; etc.)

## Systematic divisions

## Araneae (Araneida). Spiders

## Geographical distribution

## Australasia -- Continued

458.4173

Australia

458.4175

New Zealand

458.418

Pacific islands (Table Q3)

## Polar regions

458.4185

General works

458.419

Arctic regions

458.4195

Antarctica

458.4197

## Tropics

458.42.A-Z

## By family, A-Z

458.42.A2

Acanthothenidae

458.42.A28

Actinopodidae

458.42.A3

Agelenidae

458.42.A4

Amaurobiidae

Amaurobioididae see QL458.42.A57

458.42.A45

Amoxenidae

458.42.A48

Anapidae

458.42.A5

Antrodiaetidae

458.42.A57

Anyphaenidae

458.42.A7

Araneidae (Orb weavers)

458.42.A73

Archaeidae

Argiopidae see QL458.42.A7

Attidae see QL458.42.S24

458.42.A8

Atypidae

Aviculariidae see QL458.42.T5

458.42.B3

Barychelidae

458.42.C3

Caponiidae

458.42.C4

Clubionidae

458.42.C67

Corinnidae

458.42.C8

Ctenidae

458.42.C83

Ctenizidae

458.42.C93

Cyatholipidae

Deinopidae see QL458.42.D55

458.42.D44

Desidae

458.42.D5

Dictynidae

458.42.D53

Diguettidae

458.42.D55

Dinopidae. Deinopidae

458.42.D56

Dipluridae

458.42.D9

Dysderidae

458.42.E7

Eresidae (Velvet spiders)

Eusparassidae see QL458.42.H48

458.42.F5

Filistatidae

458.42.G5

Gnaphosidae

458.42.G7

Gradungulidae

458.42.H3

Hadrotarsidae

458.42.H33

Hahniidae

458.42.H47

Hersiliidae

458.42.H48

Heteropodidae

458.42.H6

Homalonychidae

458.42.H9

Hypochilidae

## Invertebrates

## Arthropoda

## Arachnida (Scorpions; spiders; mites; etc.)

## Systematic divisions

## Araneae (Araneida). Spiders

## By family, A-Z -- Continued

458.42.L3	Lamponidae
458.42.L4	Leptonetidae
458.42.L55	Linyphiidae
458.42.L56	Liocranidae
458.42.L6	Liphistiidae
458.42.L6	Loxoscelidae
458.42.L9	Lycosidae (Wolf spiders)
458.42.M4	Mecicobothriidae
458.42.M5	Microstigmatidae
458.42.M53	Migidae
458.42.M54	Mimetidae
458.42.M97	Mysmenidae
458.42.N37	Nemesiidae
458.42.N38	Nephilidae
458.42.N4	Nesticidae
458.42.O3	Ochyroceratidae
458.42.O4	Oecobiidae
458.42.O6	Oonopidae
458.42.O9	Oxyopidae
458.42.P34	Palpimanidae
458.42.P37	Paratropidae
458.42.P39	Philodromidae
458.42.P4	Pholcidae
458.42.P47	Pimoidae
458.42.P5	Pisauridae
458.42.P6	Platoridae
458.42.P64	Plectreuridae
458.42.P7	Prodidomidae
458.42.P8	Psechridae
458.42.P9	Pycnothelidae
458.42.S24	Salticidae (Jumping spiders)
458.42.S3	Scytodidae
458.42.S44	Selenopidae
458.42.S45	Senoculidae
458.42.S5	Sicariidae
	Sparassidae see QL458.42.H48
458.42.S7	Stenochilida
458.42.S73	Stiphidiidae
458.42.S9	Symphytognathidae
458.42.T44	Telmidae
458.42.T45	Tengellidae
458.42.T46	Tetrabelmidae
458.42.T48	Tetragnathidae
458.42.T5	Theraphosidae (Tarantulas)
458.42.T54	Theridiidae (Cobweb weavers)
458.42.T55	Theridiosomatidae
458.42.T56	Thomisidae
458.42.T6	Toxopidae
458.42.U4	Uloboridae
458.42.U7	Urocteidae



## Invertebrates

## Arthropoda

## Arachnida (Scorpions; spiders; mites; etc.)

## Systematic divisions

## Araneae (Araneida). Spiders

## By family, A-Z -- Continued

458.42.Z63

Zodariidae

458.42.Z67

Zoropsidae

## Opiliones (Opiliona; Phalangiida)

## General works

458.5

## By family, A-Z

458.52.A-Z

458.52.A8

Assamiidae

458.52.C6

Cosmetidae

458.52.G6

Gonyleptidae

458.52.I7

Ischyropsalidae

458.52.L44

Leiobunidae

458.52.N4

Nemastomatidae

458.52.O5

Oncopodidae

458.52.P45

Phalangiidae

458.52.P46

Phalangodidae

458.52.S5

Sironidae

458.52.S9

Synthetonychidae

458.52.T75

Triaenonychidae

458.52.T76

Trogulidae

## Palpigradi (Palpigradida)

## General works

458.55

## By family, A-Z

458.57.A-Z

Eukoeneiidae

458.57.E9

## Pseudoscorpiones (Book scorpions; Chelonethida; Pseudoscorpionida)

## General works

458.6

## By family, A-Z

458.62.A-Z

458.62.C37

Chernetidae

458.62.C4

Chthoniidae

458.62.G3

Garypidae

458.62.H9

Hyidae

458.62.I3

Ideoroncidae

458.62.M4

Menthidae

458.62.N4

Neobisiidae

458.62.O4

Olpiidae

458.62.S9

Syarinidae

458.62.T7

Tridenchthoniidae

## Ricinulei (Ricinuleida; Podogonata; Rhinogastra)

## General works

458.65

## By family, A-Z

458.67.A-Z

Ricinoididae

458.67.R5

## Schizomida

## General works

458.69

## By family, A-Z

458.692.A-Z

Hubbardiidae

458.692.H82

Protoschizomidae

458.692.P75

Schizomidae see QL458.692.H82

## Scorpiones (Scorpionida)

## General works

458.7

## By family, A-Z

458.72.A-Z

Bothriuridae

458.72.B6

Buthidae

458.72.B8

## Invertebrates

## Arthropoda

## Arachnida (Scorpions; spiders; mites; etc.)

## Systematic divisions

## Scorpiones (Scorpionida)

## By family, A-Z -- Continued

- 458.72.C27 Caraboctonidae  
 458.72.C4 Chactidae  
 458.72.C45 Chaerilidae  
 458.72.D5 Diplocentridae  
 458.72.E88 Euscorpidae  
 458.72.H45 Hemiscorpiidae  
 458.72.H48 Heteroscorpionidae  
 458.72.H67 Hormuridae  
 (458.72.I75) Ischnuridae  
     see QL458.72.H45  
 458.72.I95 Iuridae  
 458.72.M52 Microcharmidae  
 458.72.P75 Pseudochactidae  
 458.72.S3 Scorpionidae  
 458.72.S85 Superstitioniidae  
 458.72.T75 Troglotaosycidae  
 (458.72.U75) Urodacidae  
     see QL458.72.S3  
 458.72.V4 Vaejovidae  
 Solpugida (Solifugae; Sun spiders; Wind scorpions)  
 458.8 General works  
 458.82.A-Z By family, A-Z  
 458.82.A4 Ammotrechidae  
 458.82.C4 Ceromidae  
 458.82.D3 Daesiidae  
 458.82.E7 Eremobatidae  
 458.82.G3 Galeodidae  
 458.82.H4 Hexisopodidae  
 458.82.K3 Karschiidae  
 458.82.M4 Melanoblossiidae  
 458.82.R4 Rhagodidae  
 458.82.S6 Solpugidae  
 Uropygi (Thelyphonida; Whip scorpions)  
 458.85 General works  
 458.87.A-Z By family, A-Z  
 (458.87.S3) Schizomidae  
     see QL458.692.H82  
 458.87.T4 Thelyphonidae  
 459 Anatomy and morphology  
 459.2 Physiology
- Insects  
     Cf. SB818+ Economic entomology  
 461 Periodicals, societies, congresses, serial publications  
 462 Collected works (nonserial)  
 462.3 Dictionaries and encyclopedias  
 462.4 Terminology, notation, abbreviations  
 462.5 History  
 463 General works, treatises, and textbooks  
 464 Field and laboratory manuals  
 465 Collection and preservation

## Invertebrates

## Arthropoda

## Insects -- Continued

- 466 Pictorial works and atlases
- 467 Popular works
- 467.2 Juvenile works
- 467.8 Rare and endangered species
- 467.9 Extinct insects
- 468 Classification. Nomenclature
- 468.2 Catalogs and collections
- 468.4 Entomology as a profession. Vocational guidance
- 468.5 Study and teaching. Research
- 468.7 Evolution. Phylogeny. Speciation
- 468.8 Poisonous insects. Dangerous insects
- Geographical distribution
  - For geographical distribution of systematic divisions, see QL503+
- 469 General works
  - Physiographic divisions
    - Aquatic
      - 472 General works
      - 472.3 Marine
      - 472.7 Urban
    - Topographic divisions
      - North America
        - 473 General works
        - United States
          - 474 General works
          - 475.A-Z By region or state, A-Z
        - Canada
          - 476 General works
          - 476.3.A-Z By region, province, or territory, A-Z
      - Latin America
        - 476.5 General works
        - 477 Mexico
        - 478 Central America (Table Q3)
        - 479 West Indies (Table Q3)
        - 481 South America (Table Q3)
      - Atlantic islands
        - 481.4 General works
        - 481.5 By individual island or group of islands, A-Z
      - 482 Europe (Table Q3)
      - 483 Asia (Table Q3)
      - 485 Africa (Table Q3)
      - Indian Ocean islands
        - 486 General works
        - 486.3.A-Z By individual island or group of islands, A-Z
      - 487 Australia
      - 487.5 New Zealand
      - 489 Pacific islands (Table Q3)
      - 491 Arctic regions
      - 491.5 Antarctica
      - 491.6 Tropics
  - 492.5 Immunology
  - 493 Genetics
  - 493.5 Molecular entomology
  - 494 Anatomy and morphology

## Invertebrates

## Arthropoda

## Insects -- Continued

- 494.5 Metamorphosis
- 494.8 Cytology
- Physiology
  - 495 General works
  - 495.5 Development
  - 496 Behavior. Social life. Instinct
  - 496.12 Parasitism
    - Including parasitic insects and parasitoids
  - 496.15 Population dynamics
  - 496.2 Migration
  - 496.4 Ecology
  - 496.5 Sound and sound production
  - 496.7 Flight
  - 497 Miscellany and curiosa
- Apterygota
  - 501 General works, treatises, and textbooks
  - Geographical distribution
    - For geographical distribution of systematic divisions see QL503+
  - 502 General works
    - 502.1 North America (United States and Canada) (Table Q3)
    - 502.2 Mexico, Central America, and West Indies (Table Q3)
    - 502.3 South America (Table Q3)
    - 502.4 Europe (Table Q3)
    - 502.5 Asia (Table Q3)
    - 502.6 Africa (Table Q3)
    - 502.7 Australia
    - 502.75 New Zealand
    - 502.8 Pacific islands (Table Q3)
    - 502.9 Arctic regions
    - 502.95 Antarctica
    - 502.96 Tropics
  - Systematic divisions
    - Collembola
      - 503.A1 General works
      - 503.A3-Z By family, A-Z
        - 503.A3 Actaletidae
        - 503.D5 Dicyrtomidae
        - 503.E5 Entomobryidae
        - 503.H9 Hypogastruridae
        - 503.I8 Isotomidae
        - 503.N4 Neelidae
        - 503.O5 Oncopoduridae
        - 503.O56 Onychiuridae
        - 503.P6 Poduridae
        - 503.S6 Sminthuridae
        - 503.T6 Tomoceridae
      - Entotrophi (Diplura)
        - 503.4.A1 General works
        - 503.4.A3-Z By family, A-Z
          - 503.4.C3 Campodeidae
          - 503.4.J3 Japygidae
          - 503.4.P7 Projapygidae
      - Protura

## Invertebrates

## Arthropoda

## Insects

## Apterygota

## Systematic divisions

## Protura -- Continued

503.6.A1

General works

503.6.A3-Z

By family, A-Z

503.6.A3

Acerentomidae

503.6.E6

Eosentomidae

503.6.P7

Protentomidae

## Archaeognatha

503.7.A1

General works

503.7.A3-Z

By family, A-Z

503.7.M32

Machilidae

503.7.M44

Meinertellidae

## Thysanura

503.8.A1

General works

503.8.A3-Z

By family, A-Z

503.8.L4

Lepismatidae

(503.8.M3)

Machilidae

see QL503.7.M32

(503.8.M4)

Meinertellidae

see QL503.7.M44

Nicoletiidae

503.8.N5

## Anatomy and morphology

504

## Physiology

504.2

## Ephemeroptera (Plectoptera; mayflies)

505

## General works, treatises, and textbooks

## Geographical distribution

For geographical distribution of systematic divisions see QL505.3.A+

505.1

## General works

505.2

North America (United States and Canada) (Table Q3)

505.22

Mexico, Central America, and West Indies (Table Q3)

505.23

South America (Table Q3)

505.24

Europe (Table Q3)

505.25

Asia (Table Q3)

505.26

Africa (Table Q3)

505.27

Australasia and Indo-Pacific islands (Table Q3)

505.28

Polar regions

505.29

Tropics

505.3.A-Z

## Systematic divisions. By family, A-Z

Ametropodidae see QL505.3.S5

505.3.B33

Baetidae

505.3.B38

Baetiscidae

505.3.C3

Caenidae

505.3.E64

Ephemerellidae

505.3.E65

Ephemeridae

505.3.H4

Heptageniidae

505.3.L4

Leptophlebiidae

505.3.O4

Oligoneuridae

505.3.P3

Palingeniidae

505.3.P64

Polymitarcidae

505.3.P68

Potamanthidae

505.3.P76

Prosopistomatidae

505.3.S5

Siphonuridae

## Invertebrates

## Arthropoda

## Insects

## Ephemeroptera (Plecoptera; mayflies) -- Continued

505.4 Anatomy and morphology

505.42 Physiology

## Blattaria (Cockroaches)

505.5 General works

## Geographical distribution

For geographical distribution of systematic divisions see QL505.7.A+

505.51 General works

505.6 North America (United States and Canada) (Table Q3)

505.62 Mexico, Central America, and West Indies (Table Q3)

505.63 South America (Table Q3)

505.64 Europe (Table Q3)

505.65 Asia (Table Q3)

505.66 Africa (Table Q3)

505.67 Australasia and Indo-Pacific islands (Table Q3)

505.68 Polar regions

505.69 Tropics

505.7.A-Z Systematic divisions. By family, A-Z

505.7.A73 Archiblattidae

505.7.A74 Areolariidae

505.7.A87 Attaphilidae

505.7.A88 Atticolidae

505.7.B4 Blaberidae

505.7.B48 Blattellidae

505.7.B485 Blattidae

505.7.C4 Chorisoneuridae

505.7.C6 Corydiidae

505.7.C7 Cryptocercidae

505.7.D5 Diplopteridae

505.7.E3 Ectobiidae

505.7.E7 Epilampridae

505.7.E9 Euthyrrhaphidae

505.7.H6 Homoeogamiidae

505.7.L3 Latindiidae

505.7.N62 Nocticolidae

505.7.N68 Nothoblattidae

505.7.N9 Nyctiboridae

505.7.O8 Ouloterygidae

505.7.O9 Oxyhaloidae

505.7.P33 Panchloridae

505.7.P34 Panesthiidae

505.7.P4 Perisphaeriidae

505.7.P45 Phyllodromiidae

505.7.P6 Polyphagidae

505.8 Anatomy and morphology

505.82 Physiology

## Mantodea (Mantids)

505.83 General works, treatises, and textbooks

## Geographical distribution

For geographical distribution of systematic divisions see QL505.9.A+

505.84 General works

505.85 North America (United States and Canada) (Table Q3)

505.855 Mexico, Central America, and West Indies (Table Q3)

## Invertebrates

## Arthropoda

## Insects

## Mantodea (Mantids)

## Geographical distribution -- Continued

- 505.86 South America (Table Q3)
- 505.865 Europe (Table Q3)
- 505.87 Asia (Table Q3)
- 505.875 Africa (Table Q3)
- 505.88 Australasia and Indo-Pacific Islands (Table Q3)
- 505.885 Polar regions
- 505.89 Tropics
- 505.9.A-Z Systematic divisions. By family, A-Z
- 505.9.H94 Hymenopodidae
- 505.9.M35 Mantidae
- 505.95 Anatomy
- 505.96 Physiology

## Orthoptera (Grasshoppers; locusts; etc.)

- 506 General works, treatises, and textbooks
- Geographical distribution
  - For geographical distribution of systematic divisions see QL508.A+
- 507 General works
- 507.1 North America (United States and Canada) (Table Q3)
- 507.2 Mexico, Central America, and West Indies (Table Q3)
- 507.3 South America (Table Q3)
- 507.4 Europe (Table Q3)
- 507.5 Asia (Table Q3)
- 507.6 Africa (Table Q3)
- 507.7 Australia
- 507.75 New Zealand
- 507.8 Pacific islands (Table Q3)
- 507.9 Arctic regions
- 507.95 Antarctica
- 507.96 Tropics
- 508.A-Z Systematic divisions. By family, A-Z
- 508.A2 Acrididae (Grasshoppers)
- 508.A56 Anostomatidae
- Bacillidae see QL509.7.P58
- Bacteriidae see QL509.7.P53
- Bacunculidae see QL509.7.P58
- Blattidae see QL505.5+
- 508.C9 Cylindrachetidae
- 508.E5 Eneopteridae
- 508.G7 Gryllacrididae
- 508.G8 Gryllidae (Crickets)
- (508.G86) Grylloblattidae
  - see QL509.3
- 508.G87 Gryllotalpidae (Mole crickets)
- 508.L45 Lentulidae
- Locustidae see QL508.A2
- (508.M4) Mantidae
  - see QL505.9.M35
- 508.M6 Mogoplistidae
- 508.M9 Myrmecophilidae
- 508.O4 Oecanthidae
- 508.P34 Pamphagidae

## Invertebrates

## Arthropoda

## Insects

## Orthoptera (Grasshoppers; locusts; etc.)

Systematic divisions. By family, A-Z -- Continued

Phasmatidae see QL509.7.P53

508.P53

Phasmodidae

Phylliidae see QL509.7.P58

508.P6

Pneumoridae

508.P7

Proscopiidae

508.P97

Pyrgomorphidae

508.R45

Rhaphidophoridae

508.R65

Romaleidae (Lubber grasshoppers)

508.S7

Stenopelmatidae (Jerusalem crickets)

508.T38

Tetrigidae (Pigmy grasshoppers)

508.T4

Tettigoniidae (Katydids; Longhorn grasshoppers)

508.T45

Thericleidae

Timematidae see QL509.7.P58

508.T73

Tridactylidae (Pigmy mole crickets)

508.T74

Trigonidiidae

509

Anatomy and morphology

509.2

Physiology

509.3

## Grylloblattodea

Includes one family, Grylloblattidae

## Phasmatoptera (Phasmida; Stick insects)

509.5

General works

Geographical distribution

For geographical distribution of systematic divisions see QL509.7.A+

509.55

General works

509.6

North America (United States and Canada) (Table Q3)

509.62

Mexico, Central America, and West Indies (Table Q3)

509.63

South America (Table Q3)

509.64

Europe (Table Q3)

509.65

Asia (Table Q3)

509.66

Africa (Table Q3)

509.67

Australasia and Indo-Pacific islands (Table Q3)

509.68

Polar regions

509.69

Tropics

509.7.A-Z

Systematic divisions, A-Z

509.7.P53

Phasmatidae

509.7.P58

Phylliidae

## Dermaptera (Earwigs)

510

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions see QL510.3.A+

510.15

General works

510.2

North America (United States and Canada) (Table Q3)

510.22

Mexico, Central America, and West Indies (Table Q3)

510.23

South America (Table Q3)

510.24

Europe (Table Q3)

510.25

Asia (Table Q3)

510.26

Africa (Table Q3)

510.27

Australasia and Indo-Pacific islands (Table Q3)

510.28

Polar regions

510.29

Tropics

510.3.A-Z

Systematic divisions. By family, A-Z



## Invertebrates

## Arthropoda

## Insects

## Dermaptera (Earwigs)

## Systematic divisions. By family, A-Z -- Continued

510.3.A4	Allostethidae
510.3.A5	Anataeliidae
510.3.A52	Ancistrogastridae
510.3.A54	Anechuridae
510.3.A6	Apachyidae
510.3.A7	Arixeniidae
510.3.B7	Brachylabidae
510.3.C37	Carcinophoridae
510.3.C43	Cheliduridae
510.3.C48	Chelisochidae
510.3.D5	Diaperasticidae
510.3.D56	Diplatyidae
510.3.E3	Echinosomatidae
510.3.E8	Esphalmenidae
510.3.E9	Eudorniidae
510.3.F6	Forficulidae
510.3.H4	Hemimeridae
510.3.K3	Karschiellidae
510.3.L33	Labiduridae
510.3.L35	Labiidae
510.3.N46	Neolobophoridae
510.3.N48	Nesogastridae
510.3.O6	Opisthocosmiidae
510.3.P3	Parisolabidae
510.3.P4	Pericomidae
510.3.P5	Platylabiidae
510.3.P8	Psalididae
510.3.P94	Pygidicranidae
510.3.P97	Pyragridae
510.3.S6	Sparattidae
510.3.S66	Spongiphoridae
510.3.S8	Strongylopsalididae
510.3.V3	Vandicidae

510.4 Anatomy and morphology

510.42 Physiology

## Neuroptera

511 General works, treatises, and textbooks

## Geographical distribution

For geographical distribution of systematic divisions see QL513.A+

512	General works
512.1	North America (United States and Canada) (Table Q3)
512.2	Mexico, Central America, and West Indies (Table Q3)
512.3	South America (Table Q3)
512.4	Europe (Table Q3)
512.5	Asia (Table Q3)
512.6	Africa (Table Q3)
512.7	Australia
512.75	New Zealand
512.8	Pacific islands (Table Q3)
512.9	Arctic regions
512.95	Antarctica

## Invertebrates

## Arthropoda

## Insects

## Neuroptera

## Geographical distribution -- Continued

- 512.96 Tropics
- 513.A-Z Systematic divisions. By family, A-Z
- 513.A6 Apochrysidae
- 513.A7 Ascalaphidae (Owflies)
- 513.B4 Berothidae (Beaded lacewings)
- 513.C5 Chrysopidae (Lacewings)
- 513.C65 Coniopterygidae (Dusty-wings)
- (513.C7) Corydalidae (Dobsonflies)  
see QL514.7.C67
- 513.D5 Dilaridae (Pleasing lacewings)
- Embiidae see QL539+
- Ephemeroptera see QL505+
- 513.H5 Hemerobiidae (Brown lacewings)
- 513.I5 Inoceliidae
- Isoptera see QL529+
- 513.I8 Ithonidae
- 513.M3 Mantispidae (Mantidflies)
- 513.M86 Myiodactylidae
- 513.M9 Myrmeleontidae (Antlions)
- 513.N4 Nemopteridae
- 513.N9 Nymphidae
- Odonata see QL520+
- 513.O8 Osmylidae
- Planipennia see QL511+
- Plecoptera see QL530+
- 513.P6 Polystoechotidae (Giant lacewings)
- Psocidae see QL515+
- 513.P8 Psychopsidae
- (513.R3) Raphidiidae (Snakeflies)  
see QL514.9.R35
- (513.S6) Sialidae (Alderflies)  
see QL514.7.S52
- 513.S65 Sisyridae (Spongillaflyies)
- 513.S8 Stilbopterygidae
- 513.S9 Sympherobiidae
- Termitidae see QL529+
- 513.T7 Trichomatidae
- 514 Anatomy and morphology
- 514.2 Physiology
- Megaloptera
- 514.4 General works, treatises, and textbooks
- Geographical distribution
- For geographical distribution of systematic divisions see QL514.7.A+
- 514.5 General works
- 514.6 North America (United States and Canada) (Table Q3)
- 514.62 Mexico, Central America, and West Indies (Table Q3)
- 514.63 South America (Table Q3)
- 514.64 Europe (Table Q3)
- 514.65 Asia (Table Q3)
- 514.66 Africa (Table Q3)
- 514.67 Australasia and Indo-Pacific islands (Table Q3)

## Invertebrates

## Arthropoda

## Insects

## Megaloptera

## Geographical distribution -- Continued

514.68

Polar regions

514.69

Tropics

514.7.A-Z

Systematic divisions. By family, A-Z

514.7.C67

Corydalidae (Dobsonflies)

514.7.S52

Sialidae (Alderflies)

514.8

Anatomy and morphology

514.82

Physiology

## Raphidioptera

514.86

General works, treatises, and textbooks

## Geographical distribution

For geographical distribution of systematic divisions see QL514.9.A+

514.88

General works

514.8815

North America (United States and Canada) (Table Q3)

514.882

Mexico, Central America, and West Indies (Table Q3)

514.883

South America (Table Q3)

514.884

Europe (Table Q3)

514.885

Asia (Table Q3)

514.886

Africa (Table Q3)

514.887

Australasia and Indo-Pacific islands (Table Q3)

514.888

Polar regions

514.889

Tropics

514.9.A-Z

Systematic divisions. By family, A-Z

514.9.R35

Raphidiidae (Snakeflies)

514.95

Anatomy and morphology

514.96

Physiology

## Psocoptera (Corrodentia)

515

General works

515.2.A-Z

Systematic divisions, A-Z

515.2.P4

Peripsocidae

515.2.P73

Pseudocaecillidae

515.5

## Zoraptera

## Trichoptera (Caddisflies)

516

General works, treatises, and textbooks

## Geographical distribution

For geographical distribution of systematic divisions see QL518.A+

517

General works

517.1

North America (United States and Canada) (Table Q3)

517.2

Mexico, Central America, and West Indies (Table Q3)

517.3

South America (Table Q3)

517.4

Europe (Table Q3)

517.5

Asia (Table Q3)

517.6

Africa (Table Q3)

517.7

Australia

517.75

New Zealand

517.8

Pacific islands (Table Q3)

517.9

Arctic regions

517.95

Antarctica

517.96

Tropics

518.A-Z

Systematic divisions. By family, A-Z

518.A55

Anomalopsychidae

518.B4

Beraeidae

## Invertebrates

## Arthropoda

## Insects

## Trichoptera (Caddisflies)

Systematic divisions. By family, A-Z -- Continued

518.B7 Brachycentridae  
 518.C3 Calamoceratidae  
 518.G6 Goeridae  
 518.H4 Helicopsychidae  
 518.H94 Hydropsychidae  
 518.H95 Hydroptilidae  
 518.L48 Leptoceridae  
 518.L5 Limnephilidae  
 518.M6 Molannidae  
 518.O4 Odontoceridae  
 518.P45 Philopotamidae  
 518.P47 Phryganeidae  
 518.P6 Polycentropodidae  
 518.P8 Psychomyiidae  
 518.R4 Rhyacophilidae  
 518.S4 Sericostomatidae  
 518.X5 Xiphocentronidae

519 Anatomy and morphology

519.2 Physiology

## Odonata (Dragonflies, etc.)

520 General works, treatises, and textbooks

## Geographical distribution

For geographical distribution of systematic divisions see QL520.3.A+

520.15 General works  
 520.2 North America (United States and Canada) (Table Q3)  
 520.22 Mexico, Central America, and West Indies (Table Q3)  
 520.23 South America (Table Q3)  
 520.24 Europe (Table Q3)  
 520.25 Asia (Table Q3)  
 520.26 Africa (Table Q3)  
 520.27 Australasia and Indo-Pacific islands (Table Q3)  
 520.28 Polar regions  
 520.29 Tropics  
 520.3.A-Z Systematic divisions. By family, A-Z  
 520.3.A4 Aeshnidae (Darners)  
 520.3.A5 Agrionidae  
 520.3.A6 Amphipterygidae  
 520.3.C3 Calopterygidae  
 520.3.C4 Chlorocyphidae  
 520.3.C64 Coenagrionidae (Narrow-winged damselflies)  
 520.3.C67 Cordulegastridae (Biddies)  
 520.3.C68 Corduliidae (Green-eyed skimmers)  
 520.3.E6 Epallagidae  
 520.3.E65 Epiophlebiidae  
 520.3.G6 Gomphidae (Clubtails)  
 520.3.H44 Heliocharitidae  
 520.3.H45 Hemiphlebiidae  
 520.3.L45 Lestidae (Spread-winged damselflies)  
 520.3.L46 Lestoideidae  
 520.3.L6 Libellulidae (Skimmers)  
 520.3.M4 Megapodagrionidae

## Invertebrates

## Arthropoda

## Insects

## Odonata (Dragonflies, etc.)

Systematic divisions. By family, A-Z -- Continued

520.3.P4

Petaluridae (Graybacks)

520.3.P53

Platycnemididae

520.3.P58

Platystictidae

520.3.P6

Polythoridae

520.3.P7

Protoneuridae

520.3.P8

Pseudostigmatidae

520.3.S9

Synlestidae

520.4

Anatomy and morphology

520.42

Physiology

## Hemiptera (Heteroptera; bugs)

521

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions see QL523.A+

522

General works

522.1

North America (United States and Canada) (Table Q3)

522.2

Mexico, Central America, and West Indies (Table Q3)

522.3

South America (Table Q3)

522.4

Europe (Table Q3)

522.5

Asia (Table Q3)

522.6

Africa (Table Q3)

522.7

Australia

522.75

New Zealand

522.8

Pacific islands (Table Q3)

522.9

Arctic regions

522.95

Antarctica

522.96

Tropics

523.A-Z

Systematic divisions. By family, A-Z

523.A14

Acanthosomatidae

523.A35

Aepophilidae

523.A4

Alydidae

523.A5

Anthocoridae (Flowerbugs)

523.A7

Aradidae (Flatbugs)

523.B4

Belostomatidae (Giant waterbugs)

523.B45

Berytidae

523.C6

Capsidae see QL523.M5

523.C64

Cimicidae (Bedbugs, etc.)

523.C67

Colobothristidae

523.C7

Coreidae

523.C75

Corimelaenidae

523.C9

Corixidae (Water boatmen)

523.D5

Cydnidae (Burrower bugs)

523.D74

Dipsocoridae

523.D9

Drepanosiphidae

523.E65

Dysodiidae

523.G4

Enicocephalidae

523.H4

Gerridae (Water striders)

523.H44

Hebridae

Helotrephidae

Henicocephalidae see QL523.E65

Heteroptera see QL521+

Homoptera see QL525+

## Invertebrates

## Arthropoda

## Insects

## Hemiptera (Heteroptera; bugs)

Systematic divisions. By family, A-Z -- Continued

- 523.H93 Hydrometridae
- 523.H96 Hyocephalidae
- 523.I83 Isodermidae
- 523.I85 Isometopidae
- 523.J6 Joppeicidae
- 523.L45 Leotichidae
- 523.L46 Leptopodidae
- 523.L58 Liviidae
- 523.L9 Lygaeidae
- 523.M3 Macroveliidae
- 523.M4 Mesoveliidae
- 523.M47 Microphysidae
- 523.M5 Miridae (Plantbugs)
- 523.N3 Nabidae (Damsel bugs)
- 523.N4 Naucoridae (Creeping waterbugs)
- 523.N46 Neididae
- 523.N5 Nipidae (Water scorpions)
- 523.N53 Nerthridae
- 523.N6 Notonectidae (Back swimmers)
- 523.O3 Ochteridae
- 523.P5 Pentatomidae (Stinkbugs)
- 523.P53 Phymatidae (Ambushbugs)
- 523.P55 Piesmidae
- 523.P57 Plataspidae
- 523.P576 Ploiariidae
- 523.P62 Podopidae
- 523.P64 Polyctenidae
- 523.P9 Pyrrhocoridae
- 523.R4 Reduviidae (Assassin bugs)
- 523.R5 Rhopalidae
- 523.S25 Saldidae (Shorebugs)
- 523.S3 Schizopteridae
- 523.S4 Scutelleridae
- 523.T3 Tahitocoridae
- 523.T4 Termatophylidae
- 523.T43 Termitaphididae
- 523.T48 Thaumastotheriidae
- 523.T5 Tingidae (Lacebugs)
- 523.V45 Veliidae
- 523.V46 Velocipedidae
- 524 Anatomy and morphology
- 524.2 Physiology
- 525 Homoptera (Aphids; cicadas, etc.)
  - General works, treatises, and textbooks
  - Geographical distribution
    - For geographical distribution of systematic divisions see QL527.A+
- 526 General works
  - 526.1 North America (United States and Canada) (Table Q3)
  - 526.2 Mexico, Central America, and West Indies (Table Q3)
  - 526.3 South America (Table Q3)
  - 526.4 Europe (Table Q3)

## Invertebrates

## Arthropoda

## Insects

## Homoptera (Aphids; cicadas, etc.)

## Geographical distribution -- Continued

- 526.5 Asia (Table Q3)
- 526.6 Africa (Table Q3)
- 526.7 Australia
- 526.75 New Zealand
- 526.8 Pacific islands (Table Q3)
- 526.9 Arctic regions
- 526.95 Antarctica
- 526.96 Tropics
- 527.A-Z Systematic divisions. By family, A-Z
- 527.A2 Acanaloniidae
- 527.A25 Achilidae
- 527.A259 Achilixiidae
- 527.A3 Adelgidae
- 527.A4 Aethialoniidae
- 527.A44 Agallidae
- 527.A5 Aleurodidae see QL527.A5
- 527.A64 Aleyrodidae (Whiteflies)
- 527.A647 Aphididae (Aphids or plant lice)
- 527.A65 Aphrophoridae
- 527.A8 Apiomorphidae
- 527.B9 Areopodidae see QL527.D44
- 527.C35 Asterolecaniidae (Pit scales)
- 527.C4 Bythoscopidae
- 527.C43 Callaphididae
- 527.C49 Cercopidae (Spittlebugs)
- 527.C5 Cerococcidae
- 527.C55 Chermidae see QL527.P88
- 527.C58 Cicadellidae (Leafhoppers)
- 527.C6 Cicadidae (Cicadas)
- 527.C62 Cixiidae
- 527.C65 Clastopteridae
- 527.C9 Coccidae (Soft scales)
- 527.D3 Coelostomidiidae
- 527.D44 Conchaspidae
- 527.D47 Cylirococcidae
- 527.D5 Dactylopiidae (Cochineal insects)
- 527.D53 Delphacidae
- 527.E73 Derbidae
- 527.E78 Diaspididae (Armored scales)
- 527.E9 Dictyopharidae
- 527.E97 Eriococcidae
- 527.F4 Eriosomatidae
- 527.F9 Euacanthidae
- 527.I8 Eurybrachidae
- 527.K4 Flatidae
- 527.K44 Fulgoridae
- 527.K4 Gyponidae see QL527.C49
- 527.K44 Issidae
- 527.K4 Jassidae see QL527.C49
- 527.K44 Kermesidae
- 527.K44 Kerridae (Lac scales)

## Invertebrates

## Arthropoda

## Insects

## Homoptera (Aphids; cicadas, etc.)

Systematic divisions. By family, A-Z -- Continued

- 527.K5 Kinnaridae  
 527.K6 Koebeliidae  
 Lacciferidae see QL527.K44  
 (527.L4) Lecaniidae  
     see QL527.C6  
 527.L44 Ledridae  
 527.L6 Lophopidae  
 527.M3 Machaerotidae  
 527.M32 Macropsidae  
 527.M37 Margarodidae  
 527.M4 Meenoplidae  
 527.M45 Membracidae (Treehoppers)  
 Monophlebidae see QL527.M37  
 527.N5 Nirvanidae  
 527.N6 Nogodinidae  
 527.O7 Ortheziidae (Ensign scales)  
 527.P3 Paropiidae  
 527.P44 Peloridiidae  
 527.P45 Penthimiidae  
 527.P53 Phenacoleachiidae  
 527.P56 Phylloxeridae  
 527.P6 Pleidae  
 527.P83 Pseudococcidae (Mealybugs)  
 527.P88 Psyllidae (Jumping plant lice)  
 527.P93 Putoidae  
 527.P96 Pythamidae  
 527.R5 Ricaniidae  
 527.S5 Signoretiidae  
 527.S8 Stenocotidae  
 Tachardiidae see QL527.K44  
 Tettigellidae see QL527.C49  
 527.T43 Tettigometridae  
 527.T5 Thaumastoscopidae  
 527.T6 Tomaspididae  
 527.T7 Tropiduchidae  
 527.U4 Ulopidae  
 528 Anatomy and morphology  
 528.2 Physiology
- Isoptera (Termites)
- 529 General works, treatises, and textbooks  
 Geographical distribution  
     For geographical distribution of systematic divisions see QL529.3.A+
- 529.15 General works  
 529.2 North America (United States and Canada) (Table Q3)  
 529.22 Mexico, Central America, and West Indies (Table Q3)  
 529.23 South America (Table Q3)  
 529.24 Europe (Table Q3)  
 529.25 Asia (Table Q3)  
 529.26 Africa (Table Q3)  
 529.27 Australasia and Indo-Pacific islands (Table Q3)  
 529.28 Polar regions



## Invertebrates

## Arthropoda

## Insects

## Isoptera (Termites)

## Geographical distribution -- Continued

529.29

## Tropics

529.3.A-Z

## Systematic divisions. By family, A-Z

529.3.H6

## Hodotermitidae

529.3.K35

## Kalotermitidae

529.3.M3

## Mastotermitidae

529.3.R4

## Rhinotermitidae

529.3.S47

## Serritermitidae

529.3.T4

## Termitidae

529.3.T5

## Termopsidae

529.4

## Anatomy and morphology

529.42

## Physiology

## Plecoptera (Stoneflies)

530

## General works, treatises, and textbooks

## Geographical distribution

For geographical distribution of systematic divisions see QL530.3.A+

530.15

## General works

530.2

## North America (United States and Canada) (Table Q3)

530.22

## Mexico, Central America, and West Indies (Table Q3)

530.23

## South America (Table Q3)

530.24

## Europe (Table Q3)

530.25

## Asia (Table Q3)

530.26

## Africa (Table Q3)

530.27

## Australasia and Indo-Pacific islands (Table Q3)

530.28

## Polar regions

530.29

## Tropics

530.3.A-Z

## Systematic divisions. By family, A-Z

530.3.A9

## Austroperlidae

530.3.C3

## Capniidae

530.3.C45

## Chloroperlidae

530.3.E9

## Eustheniidae

530.3.L47

## Leptoperlidae

530.3.L49

## Leuctridae (Rolled-wing stoneflies)

530.3.N4

## Nemouridae

530.3.P44

## Peltoperlidae

530.3.P47

## Perlidae

530.3.P48

## Perlodidae

530.3.P8

## Pteronarcyidae

530.3.T3

## Taeniopterygidae

530.4

## Anatomy and morphology

530.42

## Physiology

## Diptera (Flies)

531

## General works, treatises, and textbooks

532

## Pictorial works and atlases

533

## Popular works

533.2

## Juvenile works

534

## Classification

534.2

## Catalogs and collections

## Geographical distribution

For geographical distribution of systematic divisions see QL536+

535

## General works

535.1

## North America (United States and Canada) (Table Q3)

## Invertebrates

## Arthropoda

## Insects

## Diptera (Flies)

## Geographical distribution -- Continued

- 535.2 Mexico, Central America, and West Indies (Table Q3)
- 535.3 South America (Table Q3)
- 535.4 Europe (Table Q3)
- 535.5 Asia (Table Q3)
- 535.6 Africa (Table Q3)
- 535.7 Australia
- 535.75 New Zealand
- 535.8 Pacific islands (Table Q3)
- 535.9 Arctic regions
- 535.95 Antarctica
- 535.96 Tropics

## Systematic divisions. By family

- 536 Culicidae (Mosquitoes)
- 537.A-Z Other families, A-Z
- 537.A3 Acroceridae
- 537.A4 Agromyzidae (Leafminerflies)
- 537.A45 Allactoneuridae
- 537.A5 Anthomyiidae
- 537.A53 Anthomyzidae
- 537.A6 Apioceridae
- 537.A85 Asilidae (Robberflies)
- 537.A88 Astiidae
- 537.A9 Aulacigastridae
- 537.B5 Bibionidae (Marchflies)
- 537.B56 Blepharoceridae
- 537.B64 Bolitophilidae
- 537.B65 Bombyliidae (Beeflies)
- 537.B7 Braulidae
- 537.C24 Calliphoridae (Blowflies)
- 537.C25 Canaceidae
- 537.C26 Canthyloscelidae
- 537.C27 Carnidae
- 537.C33 Cecidomyiidae (Gall midges)
- 537.C35 Celyphidae
- 537.C37 Ceratopogonidae (Biting midges)
- 537.C376 Ceroplatidae
- 537.C4 Chamaemyiidae
- 537.C43 Chaoboridae (Phantom midges)
- 537.C455 Chiromyzidae
- 537.C456 Chironomidae (Tendipedidae; midges)
- 537.C46 Chloropidae
- 537.C49 Chyromyiidae
- 537.C5 Clusiidae
- 537.C56 Cnemospathidae
- 537.C634 Coelopidae
- 537.C636 Coenomyiidae
- 537.C65 Conopidae
- 537.C673 Cordyluridae
- 537.C69 Corethridae see QL537.C43
- 537.C7 Corynoscelidae
- 537.C7 Cryptochaetidae

## Invertebrates

## Arthropoda

## Insects

## Diptera (Flies)

## Systematic divisions. By family

## Other families, A-Z -- Continued

	Culicidae see QL536
537.C8	Cuterebridae (Rabbit bots; rodent bots)
537.C9	Cylindrotomidae
537.D47	Deuterophlebiidae
537.D48	Dexiidae
537.D52	Diadocidiidae
537.D53	Diastatidae
537.D56	Diopsidae
537.D58	Ditomyiidae
537.D59	Dixidae
537.D6	Dolichopodidae (Long-legged flies)
537.D76	Drosophilidae (Vinegarflies)
537.D79	Dryomyzidae
537.E4	Empididae (Danceflies)
537.E7	Ephydriidae
	Euribiidae see QL537.T42
537.G3	Gasterophilidae (Horse bots)
537.G4	Glossinidae
	Heleidae see QL537.C37
537.H44	Helomyzidae
537.H48	Hesperinidae
537.H54	Hilarimorphidae
537.H57	Hippoboscidae (Louseflies)
	Hyperoscelididae see QL537.C26
	Hypodermatidae see QL537.O4
537.I76	Ironomyiidae
537.K47	Keroplastidae
537.L3	Lauxaniidae
537.L5	Limoniidae
537.L6	Lonchaeidae
537.L63	Lonchopteridae (Musidoridae)
537.L9	Lygistorrhinidae
537.M3	Macroceridae (Euphrosynidae)
537.M35	Manotidae
537.M4	Megamerinidae
	Metopiidae see QL537.S25
537.M43	Micropezidae
537.M5	Milichiidae
537.M6	Mormotomyiidae
537.M8	Muscidae (Houseflies, etc.)
537.M9	Mycetobiidae
537.M92	Mycetophilidae (Fungivoridae)
537.M93	Mydidae
537.M98	Mythicomyiidae
537.N44	Nemestrinidae
537.N46	Neottiophilidae
537.N47	Neriidae
537.N6	Nothybidae
537.N9	Nycteribiidae
537.N94	Nymphomyiidae

## Invertebrates

## Arthropoda

## Insects

## Diptera (Flies)

## Systematic divisions. By family

## Other families, A-Z -- Continued

537.O3	Oдиниidae
537.O4	Oestridae (Botflies; warbleflies)
537.O7	Opomyzidae
537.O8	Otitidae
537.P3	Pachyneuridae
537.P34	Pallopteridae
537.P35	Pantophthalmidae
537.P4	Periscelidae
537.P42	Petauristidae
537.P44	Phasiidae
537.P46	Phoridae (Humpbacked flies)
537.P49	Phytalmiidae
537.P56	Piophilidae (Skipperflies)
537.P57	Pipunculidae (Dorylidae; bigheadedflies)
537.P63	Platypozidae (Clythiidae)
537.P65	Platystomatidae
537.P83	Psilidae (Rust flies)
537.P85	Psychodidae (Mothflies)
537.P87	Pterocallidae
537.P89	Ptychopteridae (Liriopeidae)
537.P97	Pyrgotidae
537.R4	Rhagionidae (Snipeflies)
537.R457	Rhinophoridae
537.R458	Rhinoteridae
537.R46	Rhopalomeridae
537.R5	Richardiidae
537.S25	Sarcophagidae (Metopiidae; fleshflies)
537.S32	Scatopsidae
537.S34	Scenopinidae (Omphralidae)
537.S35	Sciadoceridae
537.S357	Sciaridae (Lycoriidae; fungus gnats)
537.S365	Sciomyzidae
537.S367	Sciophilidae
537.S4	Sepsidae
537.S54	Silvicolidae
537.S55	Simuliidae (Melusinidae; blackflies)
537.S6	Solvidae
537.S7	Sphaeroceridae
537.S84	Stratiomyidae (Soldier flies)
537.S86	Streblidae
537.S87	Strongylophthalmyiidae
537.S88	Synneuridae
537.S9	Syrphidae (Flowerflies; hoverflies)
537.T25	Tabanidae (Deerflies)
537.T28	Tachinidae (Larvaevoridae)
537.T3	Tachiniscidae
537.T35	Tanyderidae
537.T357	Tanypezidae
537.T42	Tephritidae
537.T447	Termitoxeniidae

## Invertebrates

## Arthropoda

## Insects

## Diptera (Flies)

## Systematic divisions. By family

## Other families, A-Z -- Continued

537.T448

Tethinidae

537.T45

Thaumaleidae

537.T458

Thaumatoxenidae

537.T47

Therevidae

537.T49

Thyreophoridae

537.T6

Tipulidae (Craneflies)

537.T7

Trichoceridae (Winter craneflies)

537.T75

Trixoscelidae

Trypetidae see QL537.T42

Tylidae see QL537.M43

537.U4

Ulidiidae

537.X9

Xylophagidae (Erinnidae)

538

## Anatomy and morphology

538.2

## Physiology

## Embioptera (Embiodea; web spinners)

539

## General works, treatises, and textbooks

## Geographical distribution

For geographical distribution of systematic divisions see QL539.3.A+

539.15

## General works

539.2

North America (United States and Canada) (Table Q3)

539.22

Mexico, Central America, and West Indies (Table Q3)

539.23

South America (Table Q3)

539.24

Europe (Table Q3)

539.25

Asia (Table Q3)

539.26

Africa (Table Q3)

539.27

Australasia and Indo-Pacific islands (Table Q3)

539.28

Polar regions

539.29

Tropics

539.3.A-Z

## Systematic divisions. By family, A-Z

539.3.A5

Anisembiidae

539.3.C4

Clothodidae

539.3.E4

Embiidae

539.3.N6

Notoligotomidae

539.3.O44

Oligembiidae

539.3.O46

Oligotomidae

539.3.T4

Teratembiiidae

539.4

## Anatomy and morphology

539.42

## Physiology

## Mallophaga (Chewing lice)

540

## General works, treatises, and textbooks

## Geographical distribution

For geographical distribution of systematic divisions see QL540.3.A+

540.15

## General works

540.2

North America (United States and Canada) (Table Q3)

540.22

Mexico, Central America, and West Indies (Table Q3)

540.23

South America (Table Q3)

540.24

Europe (Table Q3)

540.25

Asia (Table Q3)

540.26

Africa (Table Q3)

540.27

Australasia and Indo-Pacific islands (Table Q3)

## Invertebrates

## Arthropoda

## Insects

## Mallophaga (Chewing lice)

## Geographical distribution -- Continued

540.28

Polar regions

540.29

Tropics

540.3.A-Z

Systematic divisions. By family, A-Z

540.3.B6

Boopidae

540.3.D3

Dasyonygidae

540.3.G9

Gyropidae

540.3.H4

Heptapsogastridae

540.3.L3

Laemobothridae

540.3.M4

Menoponidae

540.3.N4

Nesiotinidae

540.3.P4

Philopteridae

540.3.R5

Ricinidae

540.3.T7

Trichodectidae

540.3.T72

Trichophlopteridae

540.3.T74

Trimenoponidae

540.4

Anatomy and morphology

540.42

Physiology

## Lepidoptera (Butterflies; moths)

541

Periodicals, societies, congresses, serial publications

541.5

Dictionaries and encyclopedias

542

General works, treatises, and textbooks

543

Pictorial works and atlases

544

Popular works

544.2

Juvenile works

544.6

Butterfly attracting

Including butterfly gardens and gardening

545

Classification

545.2

Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions see QL561.A+

546

General works

North America

548

General works

United States

549

General works

551.A-Z

By region or state, A-Z

552

Canada

553

Mexico, Central America, and West Indies (Table Q3)

554

South America (Table Q3)

555

Europe (Table Q3)

556

Asia (Table Q3)

557

Africa (Table Q3)

557.5

Indian Ocean islands (Table Q3)

558

Australia

558.5

New Zealand

559

Pacific islands (Table Q3)

560

Arctic regions

560.5

Antarctica

560.6

Tropics

561.A-Z

Systematic divisions. By family, A-Z

561.A25

Acraeidae

## Invertebrates

## Arthropoda

## Insects

## Lepidoptera (Butterflies; moths)

## Systematic divisions. By family, A-Z -- Continued

561.A254	Acrolepiidae
561.A256	Acrolophidae
561.A3	Adelidae
	Aegeriidae see QL561.S47
561.A4	Agaristidae
561.A46	Agonoxenidae
561.A48	Alucitidae
561.A5	Amathusiidae
561.A57	Amphitheridae
	Amydriidae see QL561.T55
561.A65	Anomologidae
561.A67	Anthelidae
561.A7	Apoprogonidae
561.A8	Arctiidae (Tiger moths)
561.A84	Argyresthiidae
561.A865	Arrhenophandiae
561.A88	Ashinagidae
561.A93	Axiidae
561.B4	Blastobasidae
561.B6	Bombycidae (Silkworm moths)
561.B68	Brachodidae
561.B7	Brahmaeidae
561.C24	Callidulidae
561.C3	Carposinidae
561.C35	Castniidae
561.C4	Cecidosetidae
561.C42	Cercophanidae
561.C44	Charideidae
561.C46	Chlidanotidae
561.C47	Choreutidae (Metalmark moths)
561.C48	Chrysopolomidae
561.C5	Citheroniidae (Royal moths)
561.C57	Cochylidae
561.C58	Coleophoridae (Casebearer moths)
561.C59	Cosmopterigidae
561.C6	Cossidae (Carpenterworm moths)
561.C73	Crambidae
561.C8	Ctenuchidae
561.C9	Cyclotornidae
561.D25	Dalceridae (Slug caterpillar moths; jewel caterpillar moths)
(561.D3)	Danaidae
	see QL561.N9
561.D5	Dipotidae
561.D6	Douglasiidae
561.D7	Drepanidae
561.E4	Elachistidae
561.E5	Endromidae
561.E74	Epermeniidae
561.E75	Epicopeiidae
561.E754	Epimarptidae
561.E757	Epipaschiidae

## Invertebrates

## Arthropoda

## Insects

## Lepidoptera (Butterflies; moths)

## Systematic divisions. By family, A-Z -- Continued

561.E758	Epiplemaidae
561.E759	Epipyropidae
561.E8	Eriocraniidae
561.E85	Ethmiidae
(561.E9)	Eucleidae
	see QL561.L54
561.E94	Eupterotidae
561.G3	Galleriidae (Wax moths)
561.G4	Gelechiidae
561.G6	Geometridae
561.G65	Glyphipterygidae
561.G7	Gracillariidae (Leafblotch miners)
561.H42	Heliconiidae
561.H44	Heliodinidae
561.H448	Heliozelidae (Shield bearers)
561.H47	Hepialidae
561.H5	Hesperiidae (Skippers)
561.H53	Heterogynidae
561.H9	Hyblaeidae
561.H97	Hyposmocomidae
561.I45	Immidae
561.I5	Incurvariidae
561.L3	Lasiocampidae (Tent-caterpillar moths)
561.L37	Lecithoceridae
561.L4	Lemoniidae
561.L5	Libytheidae
561.L54	Limacodidae (Slug caterpillar moths)
	Lithosiidae see QL561.A8
561.L8	Lycaenidae
561.L9	Lymantriidae (Tussock moths)
561.L95	Lyonetiidae
561.M4	Megalopygidae (Flannel moths)
561.M42	Megathymidae (Skippers)
561.M44	Metachandidae
561.M44	Metachandidae
561.M48	Micropterygidae
561.M5	Mimallonidae
561.M55	Mnesarchaeidae
561.M6	Morphidae
561.N38	Neopseustidae
561.N4	Nepticulidae
561.N7	Noctuidae (Owlet moths; underwings)
561.N74	Nolidae
561.N8	Notodontidae
561.N87	Nyctemeridae
561.N9	Nymphalidae (Brushfooted butterflies; milkweed butterflies)
561.O26	Ochsenheimeriidae
561.O43	Oecophoridae
	Oinophilidae see QL561.T55
561.O6	Olethreutidae
561.O7	Opostegidae



## Invertebrates

## Arthropoda

## Insects

## Lepidoptera (Butterflies; moths)

Systematic divisions. By family, A-Z -- Continued

- Orenodidae see QL561.A48
- 561.O9 Oxychirotidae
- 561.O93 Oxytenidae
- 561.P17 Palaeosetidae
- 561.P18 Palaephatidae
- 561.P2 Papilionidae (Swallowtail butterflies)
- Phaloniidae see QL561.C57
- Phycitidae see QL561.P9
- 561.P48 Phyllocnistidae
- 561.P5 Pieridae
- 561.P55 Plutellidae (Diamondback moths)
- 561.P57 Prodoxidae (Yucca moths)
- 561.P58 Prototheoridae
- 561.P6 Psychidae (Bagworm moths)
- 561.P8 Pterophoridae (Plume moths)
- 561.P85 Pterothysanidae
- 561.P9 Pyralidae
- 561.P96 Pyromorphidae
- 561.R3 Ratardidae
- 561.R53 Ridaschinidae
- 561.R56 Riodinidae
- 561.S2 Saturniidae (Giant silkworm moths)
- 561.S3 Satyridae
- 561.S35 Scythridae
- 561.S44 Sematuridae
- 561.S47 Sesiidae (Clearwing moths)
- Setomorphidae see QL561.T55
- 561.S7 Sphingidae (Sphinx moths)
- 561.S8 Stenomidae
- 561.S87 Strepsimanidae
- 561.T46 Thyatiridae
- 561.T48 Thyrididae
- 561.T55 Tineidae (Clothes moths)
- 561.T56 Tineodidae
- 561.T58 Tischeriidae
- 561.T8 Tortricidae (Leaf-roller moths)
- 561.U7 Uraniidae
- 561.X9 Xylorictidae
- 561.Y7 Yponomeutidae (Ermine moths)
- 561.Z9 Zygaenidae (Leaf-skeletonizer moths)
- 562 Anatomy and morphology
- 562.2 Physiology
- 562.4 Behavior. Social life. Instinct
- 562.6 Ecology
- Hymenoptera (Ants; bees; wasps; etc.)
  - Cf. SF521+ Bee culture
- 563 General works, treatises, and textbooks
- 564 Pictorial works and atlases
- 565 Popular works
- 565.2 Juvenile works
- 566 Classification

## Invertebrates

## Arthropoda

## Insects

## Hymenoptera (Ants; bees; wasps; etc.) -- Continued

566.2

Catalogs and collections

Geographical distribution

For geographical distribution of systematic divisions see QL568.A+

567

General works

567.1

North America (United States and Canada) (Table Q3)

567.2

Mexico, Central America, and West Indies (Table Q3)

567.3

South America (Table Q3)

567.4

Europe (Table Q3)

567.5

Asia (Table Q3)

567.6

Africa (Table Q3)

567.7

Australia

567.75

New Zealand

567.8

Pacific islands (Table Q3)

567.9

Arctic regions

567.95

Antarctica

567.96

Tropics

568.A-Z

Systematic divisions. By family, A-Z

568.A17

Acorduleceridae

568.A23

Agaontidae (Fig wasps)

568.A24

Agriotypidae

568.A3

Alienidae

568.A34

Alysiidae

568.A344

Alyssonidae

568.A36

Ampulicidae

568.A38

Anacharitidae

568.A4

Andrenidae

568.A48

Anthoboscidae

568.A53

Anthophoridae

568.A55

Aphelinidae

568.A57

Aphidiidae

568.A6

Apidae (Bumblebees; honeybees; stingless bees)

568.A7

Apterogynidae

568.A77

Argidae

568.A8

Aspiceridae

568.A9

Aulacidae

568.B36

Belytidae

Bembicidae see QL568.S7

568.B4

Bethyidae

568.B5

Blasticotomidae

568.B8

Braconidae

568.B83

Bradynobaenidae

568.C373

Cephidae (Stem sawflies)

568.C375

Ceraphronidae

568.C377

Cerceridae

568.C4

Chalcididae

568.C44

Charipidae

568.C47

Chrysididae (Cuckoo wasps)

568.C5

Cimbicidae

568.C55

Cleonymidae

568.C56

Cleptidae

568.C6

Colletidae

568.C7

Crabronidae

## Invertebrates

## Arthropoda

## Insects

## Hymenoptera (Ants; bees; wasps; etc.)

## Systematic divisions. By family, A-Z -- Continued

568.C9	Cynipidae (Gall wasps)
568.D44	Diapriidae
568.D47	Dimorphidae
568.D5	Diprionidae (Conifer sawflies)
568.D7	Dryinidae
568.E4	Elasmidae
568.E5	Embolemidae
568.E6	Encyrtidae
568.E75	Eucharididae
568.E77	Eucoilidae
568.E8	Eulophidae
568.E84	Eumenidae
568.E845	Eupelmidae
568.E85	Eurytomidae
568.E9	Evaniidae (Ensign wasps)
568.F47	Fideliidae
568.F5	Figitidae
568.F7	Formicidae (Ants)
568.G3	Gasteruptionidae
568.G6	Gorytidae
568.H3	Halictidae (Sweat bees)
568.H4	Heloridae
568.I15	Ibaliidae
568.I2	Ichneumonidae
568.L3	Larridae
568.L47	Leptofoenidae
568.L49	Leucospididae
568.L56	Liopteridae
(568.M3)	Masaridae
	see QL568.V5
568.M4	Megachilidae (Leaf-cutting bees)
568.M44	Megalodontidae
568.M45	Megalyridae
(568.M456)	Meliponidae
	see QL568.A6
568.M46	Melittidae
568.M466	Mellinidae
568.M48	Methocidae
568.M55	Miscogastridae
568.M56	Miscophidae
568.M6	Monomachidae
568.M8	Mutillidae (Velvet ants)
568.M94	Mymaridae (Fairyflies)
568.M944	Mymarommatidae
568.M97	Myrmosidae
568.N9	Nyssonidae
568.O25	Oberthuerellidae
568.O74	Ormyridae
568.O78	Orussidae (Parasitic wood wasps)
	Oryssidae see QL568.O78
568.O8	Oxaeidae

## Invertebrates

## Arthropoda

## Insects

## Hymenoptera (Ants; bees; wasps; etc.)

## Systematic divisions. By family, A-Z -- Continued

- 568.O9 Oxybelidae  
 568.P3 Pamphiliidae (Web-spinning sawflies)  
 568.P43 Pelecinidae  
 Pemphredonidae see QL568.S7  
 568.P474 Pergidae  
 568.P475 Perilampidae  
 568.P5 Philanthidae  
 568.P55 Platygasteridae  
 568.P58 Plumatidae  
 568.P6 Pompilidae (Spider wasps)  
 568.P9 Proctotrypidae  
 568.P94 Pteromalidae  
 568.P945 Pterostigmatidae  
 568.R4 Rhopalosomatidae  
 568.R6 Roproniidae  
 568.S2 Sapygidae  
 568.S3 Scelionidae  
 568.S34 Sclerogibbidae  
 568.S38 Scoliidae  
 568.S5 Sierolomorphidae  
 568.S57 Siricidae (Horntails)  
 568.S7 Sphecidae  
 568.S8 Stephanidae  
 568.S85 Stizidae  
 568.S96 Syntexidae  
 568.T3 Tenthredinidae (Sawflies)  
 568.T34 Tetracampidae  
 568.T4 Thynnidae  
 568.T5 Tiphiidae  
 568.T6 Torymidae  
 568.T7 Trichogrammatidae  
 568.T74 Trigonalidae  
 568.T79 Trypoxylidae  
 568.V3 Vanhorniidae  
 568.V5 Vespidae (Hornets, etc.)  
 568.X5 Xiphydriidae (Wood wasps)  
 568.X7 Xyelidae  
 569 Anatomy and morphology  
 569.2 Physiology  
 569.4 Behavior. Social life. Instinct  
 Anoplura (Sucking lice)  
 570 General works, treatises, and textbooks  
 Geographical distribution  
 For geographical distribution of systematic divisions see QL570.3.A+  
 570.15 General works  
 570.2 North America (United States and Canada) (Table Q3)  
 570.22 Mexico, Central America, and West Indies (Table Q3)  
 570.23 South America (Table Q3)  
 570.24 Europe (Table Q3)  
 570.25 Asia (Table Q3)  
 570.26 Africa (Table Q3)

## Invertebrates

## Arthropoda

## Insects

## Anoplura (Sucking lice)

## Geographical distribution -- Continued

- 570.27 Australasia and Indo-Pacific islands (Table Q3)
- 570.28 Polar regions (Table Q3)
- 570.29 Tropics (Table Q3)
- 570.3.A-Z Systematic divisions. By family, A-Z
- 570.3.E3 Echinophthiriide
- 570.3.H34 Haematomyzidae
- 570.3.H37 Haematopinidae
- 570.3.H38 Haematopinoidea
- 570.3.H64 Hoplopleuridae
- 570.3.N4 Neolignathidae
- 570.3.P4 Pediculidae
- 570.3.P5 Phthiriidae

## Coleoptera (Beetles)

- 571 Periodicals, societies, congresses, serial publications
- 572 Collected works (nonserial)
- 573 General works, treatises, and textbooks
- 575 Pictorial works and atlases
- 576 Popular works
- 576.2 Juvenile works
- 577 Classification
- 577.2 Catalogs and collections
- Geographical distribution
  - For geographical distribution of systematic divisions see QL596.A+
- 578 General works
- 580 America
  - North America
    - 581 General works
    - United States
      - 583 General works
      - 584.A-Z By region or state, A-Z
      - 585 Canada
      - Latin America
        - 585.5 General works
        - 586 Mexico
        - 587 Central America (Table Q3)
        - 588 West Indies (Table Q3)
        - 589 South America (Table Q3)
      - 591 Europe (Table Q3)
      - 592 Asia (Table Q3)
      - 593 Africa (Table Q3)
      - 594 Australia
      - 594.5 New Zealand
      - 595 Pacific islands (Table Q3)
      - 595.2 Arctic regions
      - 595.4 Antarctica
      - 595.6 Tropics
    - 596.A-Z Systematic divisions. By family, A-Z
      - 596.A23 Acanthoceridae
      - 596.A27 Aculognathidae
      - 596.A3 Aderidae
      - 596.A37 Aegialiidae

## Invertebrates

## Arthropoda

## Insects

## Coleoptera (Beetles)

Systematic divisions. By family, A-Z -- Continued

596.A4	Aglycyderidae
596.A42	Alleculidae
596.A43	Alticidae
596.A45	Amphizoidae
596.A5	Anobiidae
596.A62	Anthicidae (Antlike flower beetles)
596.A63	Anthribidae (Fungus weevils)
596.A64	Aphodiidae
596.A8	Atractoceridae
596.A83	Attelabidae
596.B5	Bostrichidae (False powderpost beetles)
596.B52	Bothrideridae
596.B54	Brachypteridae
596.B58	Brachyspectridae
596.B6	Brathinidae
596.B65	Brentidae
596.B7	Bruchidae (Seed beetles)
596.B8	Buprestidae (Metallic wood borers)
596.B97	Byrrhidae
596.B98	Byturidae (Fruitworm beetles)
596.C15	Cantharidae (Soldier beetles)
596.C2	Carabidae (Ground beetles)
	Cassididae see QL596.C5
596.C28	Catopochrotidae
596.C3	Cebrionidae
596.C37	Cephaloidae
596.C4	Cerambycidae
596.C415	Ceratocanthidae
596.C42	Cerophytidae
596.C43	Cetoniidae
596.C45	Chapuisiidae
596.C46	Chelonariidae
596.C48	Chlamisidae
596.C5	Chrysomelidae (Leaf beetles)
596.C56	Cincindelidae (Tiger beetles)
596.C6	Ciidae
596.C613	Cistelidae
596.C617	Clambidae
596.C618	Clavigeridae
596.C62	Cleridae (Checkered beetles)
596.C64	Clytridae
596.C65	Coccinellidae (Lady beetles)
596.C66	Colydiidae. Colydiinae (Cylindrical bark beetles)
596.C667	Corylophidae
596.C67	Corynetidae
596.C68	Cossyphodidae
596.C7	Crioceridae
596.C77	Cryptocephalidae
596.C78	Cryptophagidae
596.C8	Cucujidae (Flat-bark beetles)
596.C85	Cupidae

## Invertebrates

## Arthropoda

## Insects

## Coleoptera (Beetles)

Systematic divisions. By family, A-Z -- Continued

596.C9	Curculionidae (Snout beetles)
596.C93	Cyathoceridae
596.C933	Cybocephalidae
596.C94	Cyladidae
596.D37	Dascyllidae
596.D375	Dasytidae
596.D4	Dermestidae
596.D42	Derodontidae
596.D57	Diphyllidae
596.D58	Discolomidae
596.D59	Disteniidae
596.D6	Donaciidae
596.D67	Drilidae
596.D7	Dryopidae
596.D85	Dynastidae
596.D9	Dytiscidae (Predaceous diving beetles)
596.E3	Ectrephidae
596.E38	Elacatidae
596.E4	Elateridae (Click beetles)
596.E45	Elmidae
596.E5	Endomychidae
596.E7	Erotylidae
596.E76	Euchiridae
596.E77	Eucinetidae
596.E8	Eucnemidae
596.E84	Euglenidae
596.E85	Eumolpidae
596.E87	Eurystethidae
596.G3	Galerucidae
596.G47	Georyssidae
596.G48	Geotrupidae
596.G5	Glaphyridae
596.G6	Gnostidae
596.G8	Gyrinidae (Whirligig beetles)
596.H2	Haliplidae
596.H38	Helodidae
596.H4	Helotidae
596.H43	Hemipeplidae
596.H45	Heteroceridae
596.H48	Hispidae
596.H5	Histeridae (Hister beetles)
596.H78	Hybosoridae
596.H79	Hydraenidae
596.H8	Hydrophilidae (Water scavenger beetles)
596.H85	Hydroscaphidae
596.H9	Hygrobiidae
596.H95	Hypocephalidae
596.I7	Ipidae
596.J3	Jacobsoniidae
596.L23	Lagriidae
596.L25	Lamiidae

## Invertebrates

## Arthropoda

## Insects

## Coleoptera (Beetles)

Systematic divisions. By family, A-Z -- Continued

596.L27	Lamprosomatidae
596.L28	Lampyridae (Fireflies)
596.L29	Languriidae
596.L3	Lathridiidae
596.L35	Leiodidae (Round fungus beetles)
596.L4	Leptinidae
596.L43	Leptodiridae
596.L55	Limnichidae
596.L58	Limulodidae
596.L8	Lucanidae (Stag beetles)
596.L9	Lycidae (Netwinged beetles)
596.L92	Lyctidae (Powderpost beetles)
596.L94	Lyxmexylidae (Timber beetles)
596.M2	Malachiidae
596.M3	Megalopodidae
596.M34	Megascelidae
	Melasidae see QL596.E8
596.M38	Meloidae (Blister beetles)
596.M4	Melolonthidae (Cockchafers)
596.M43	Melyridae
596.M47	Micromalthidae
596.M5	Micropeplidae
596.M53	Monoedidae
	Monommatidae see QL596.Z66
596.M57	Monotomidae
596.M6	Mordellidae (Tumbling flower beetles)
596.M8	Murmidiidae
596.M9	Mycetaeidae
596.M92	Mycetophagidae (Hairy fungus beetles)
596.N4	Nemonychidae
596.N54	Nilionidae
596.N57	Niponiidae
596.N58	Nitidulidae (Sap beetles)
596.N6	Nosodendridae
596.O25	Ochodaeidae
596.O4	Oedemeridae
596.O67	Orphnidae
596.O7	Orthoperidae
	Ostomatidae see QL596.T8
596.P13	Pachypodidae
596.P17	Parandridae
596.P2	Passalidae
596.P25	Passandridae
596.P3	Pedilidae
596.P38	Petriidae
596.P4	Phaenocephalidae
596.P42	Phaenomeridae
596.P46	Phalacridae (Shining fungus beetles)
596.P47	Phenogodidae (Glowworms)
596.P5	Plastoceridae
596.P6	Platypodidae



## Invertebrates

## Arthropoda

## Insects

## Coleoptera (Beetles)

Systematic divisions. By family, A-Z -- Continued

- 596.P62 Platypsyllidae
- 596.P63 Pleocomidae
- 596.P7 Prionidae
- 596.P75 Proterhinidae
- 596.P8 Pselaphidae
- 596.P815 Psephenidae
- 596.P83 Ptiliidae
- 596.P85 Ptinidae (Spider beetles)
- 596.P96 Pyrochroidae
- 596.P98 Phthidae
- 596.R4 Rhipiceridae
- 596.R485 Rhipiphoridae
- 596.R5 Rhizophagidae
- 596.R57 Rhysodidae
- 596.R8 Rutelidae
- 596.S23 Sagridae
- 596.S28 Scaphidiidae
- 596.S3 Scarabaeidae (Scarabs)
- 596.S35 Scolytidae (Bark beetles)
- 596.S353 Scolytoplastypodidae
- 596.S38 Scruptiidae
- 596.S4 Scydmaenidae
- 596.S45 Serropalpidae
- 596.S49 Silvanidae
- 596.S5 Silphidae (Carrion beetles)
- 596.S53 Sinodendridae
- 596.S6 Smicripidae
- 596.S65 Sphaeriidae
- 596.S66 Sphaeritidae
- 596.S68 Sphaerosomatidae
- 596.S7 Sphindidae
- 596.S75 Staphylinidae (Rove beetles)
- 596.S9 Synteliidae
- 596.T16 Telegeusidae
- 596.T2 Tenebrionidae (Darkling beetles)
- 596.T27 Tetratomidae
- 596.T35 Thorictidae
- 596.T4 Throscidae
- 596.T7 Trichiidae
- Trichopterygidae see QL596.P83
- 596.T75 Trictenotomidae
- 596.T78 Trogidae
- 596.T8 Trogositidae
- 596.U75 Urodontidae
- 596.V47 Vesperidae
- 596.Z66 Zopheridae (Ironclad beetles)
- 597 Anatomy and morphology
- 597.2 Physiology
- Thysanoptera (Thrips)
- 598 General works, treatises, and textbooks

## Invertebrates

## Arthropoda

## Insects

## Thysanoptera (Thrips) -- Continued

## Geographical distribution

For geographical distribution of systematic divisions see QL598.3.A+

- 598.15 General works
- 598.2 North America (United States and Canada) (Table Q3)
- 598.22 Mexico, Central America, and West Indies (Table Q3)
- 598.23 South America (Table Q3)
- 598.24 Europe (Table Q3)
- 598.25 Asia (Table Q3)
- 598.26 Africa (Table Q3)
- 598.27 Australasia and Indo-Pacific islands (Table Q3)
- 598.28 Polar regions
- 598.29 Tropics

## 598.3.A-Z Systematic divisions. By family, A-Z

- 598.3.A4 Aelothripidae
- 598.3.C4 Ceratothripidae
- 598.3.C5 Chirothripoididae
- 598.3.E3 Ecacanthothripidae
- 598.3.E8 Eupatithripidae
- 598.3.F7 Franklinothripidae
- 598.3.H4 Heterothripidae
- 598.3.H9 Hystrichothripidae
- 598.3.I3 Idolothripidae
- 598.3.M44 Megathripidae
- 598.3.M45 Melanothripidae
- 598.3.M47 Merothripidae
- 598.3.M9 Mymarothripidae
- 598.3.O7 Orothripidae
- 598.3.P3 Panchaethripidae
- 598.3.P45 Phlaeothripidae
- 598.3.P5 Phloeothripidae
- 598.3.P9 Pygothripidae
- 598.3.T4 Thripidae
- 598.3.U7 Urothripidae

## 598.4 Anatomy and morphology

## 598.42 Physiology

## Mecoptera (Scorpionflies)

## 598.5 General works, treatises, and textbooks

## Geographical distribution

For geographical distribution of systematic divisions see QL598.7.A+

- 598.52 General works
- 598.6 North America (United States and Canada) (Table Q3)
- 598.62 Mexico, Central America, and West Indies (Table Q3)
- 598.63 South America (Table Q3)
- 598.64 Europe (Table Q3)
- 598.65 Asia (Table Q3)
- 598.66 Africa (Table Q3)
- 598.67 Australasia and Indo-Pacific islands (Table Q3)
- 598.68 Polar regions
- 598.69 Tropics

## 598.7.A-Z Systematic divisions. By family, A-Z

- 598.7.B5 Bittacidae
- 598.7.B6 Boreidae

## Invertebrates

## Arthropoda

## Insects

## Mecoptera (Scorpionflies)

Systematic divisions. By family, A-Z -- Continued

598.7.M4

Meropeidae

598.7.N6

Notiothaumidae

598.7.P3

Panorpidae

598.8

Anatomy and morphology

598.82

Physiology

## Strepsiptera (Twisted-winged parasites)

599

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions see QL599.3.A+

599.15

General works

599.2

North America (United States and Canada) (Table Q3)

599.22

Mexico, Central America, and West Indies (Table Q3)

599.23

South America (Table Q3)

599.24

Europe (Table Q3)

599.25

Asia (Table Q3)

599.26

Africa (Table Q3)

599.27

Australasia and Indo-Pacific islands (Table Q3)

599.28

Polar regions

599.29

Tropics

599.3.A-Z

Systematic divisions. By family, A-Z

599.3.C32

Callipharixenidae

599.3.E4

Elenchidae

599.3.H3

Halictophagidae

599.3.M45

Mengeidae

599.3.M46

Mengenillidae

599.3.M9

Myrmecolacidae

599.3.S85

Stichotrematidae

599.3.S89

Stylopidae

599.4

Anatomy and morphology

599.42

Physiology

## Siphonaptera (Fleas)

599.5

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions see QL599.7.A+

599.52

General works

599.6

North America (United States and Canada) (Table Q3)

599.62

Mexico, Central America, and West Indies (Table Q3)

599.63

South America (Table Q3)

599.64

Europe (Table Q3)

599.65

Asia (Table Q3)

599.66

Africa (Table Q3)

599.67

Australasia and Indo-Pacific islands (Table Q3)

599.68

Polar regions

599.69

Tropics

599.7.A-Z

Systematic divisions. By family, A-Z

599.7.C47

Ceratophyllidae

599.7.D6

Dolichopsyllidae

599.7.H4

Hectopsyllidae

599.7.H9

Hystrichopsyllidae

599.7.I3

Ischnopsyllidae

599.7.P8

Pulicidae

- Invertebrates
  - Arthropoda
    - Insects
      - Siphonaptera (Fleas)
        - Systematic divisions. By family, A-Z -- Continued
        - 599.7.S8      Stephanocircidae
        - 599.7.T8      Tungidae
        - 599.8          Anatomy and morphology
        - 599.82         Physiology
- Chordates. Vertebrates
  - For behavior see QL750+
  - For anatomy see QL801+
  - For physiology see QP1+
  - 605.A1         Periodicals, societies, congresses, serial publications
  - 605.A2         Collected works (nonserial)
  - 605.A3-Z       General works, treatises, and textbooks
  - 605.2          Popular works
  - 605.3          Juvenile works
  - 605.4          Dictionaries and encyclopedias
  - 606             Rare and endangered species see QL81.5+
  - 606             Introduced vertebrates
    - For local see QL606.5+
  - Geographical distribution
    - For geographical distribution of systematic divisions, see the division, e.g. QL619+, Fishes
    - 606.5          General works
    - 606.52         North America (United States and Canada) (Table Q3)
    - 606.53         Mexico, Central America, and West Indies (Table Q3)
    - 606.54         South America (Table Q3)
    - 606.55         Europe (Table Q3)
    - 606.56         Asia (Table Q3)
    - 606.57         Africa (Table Q3)
    - 606.58         Australasia and Indo-Pacific islands (Table Q3)
    - Arctic regions
      - 606.59         General works
      - 606.592        Bering Land Bridge Region. Beringia
      - 606.594        Greenland
      - 606.597        Antarctica
    - 606.6          Tropics
  - 607             Classification
  - 607.2          Catalogs and collections
  - 607.5          Evolution (General)
  - 607.6          Population dynamics
  - 607.9          Collection and preservation
  - Protochordata
    - 610             General works
    - 611             Cephalochordata
    - 612             Hemichordata
    - 613             Urochordata (Tunicata)
  - Fishes
    - Cf. SH1+ Fish culture, fisheries, angling
    - 614             Periodicals, societies, congresses, serial publications
    - 614.5          Collected works (nonserial)
    - 614.7          Dictionaries and encyclopedias
    - 614.73         Communication of information
      - 614.74         General works
      - 614.74         Information services

## Chordates. Vertebrates

## Fishes

- 614.75      Communication of information -- Continued
  - Computer network resources
    - Including the Internet
- 614.8      History of ichthyology
  - General works
- 614.83.A-Z      By region or country, A-Z
- 614.9      Biography of ichthyologists see QL26+
- 614.9      Directories
- 615      General works, treatises, and textbooks
- 616      Pictorial works and atlases
- 617      Popular works
- 617.2      Juvenile works
- 617.7      Rare and endangered species
  - General works
- 617.73.A-Z      By region or country, A-Z
- 618      Classification. Nomenclature
- 618.15      Catalogs and collections
- 618.2      Evolution. Speciation
- 618.3      Population dynamics
- 618.5      Study and teaching. Research
  - General works
- 618.55      Fish watching
  - For fish watching in individual regions or countries, see QL620+
- 618.6      Collection and preservation. Fish mounting
  - Cf. SH338+ Fisheries museums and exhibitions
- 618.65      Fish surveys
  - For fish surveys in individual regions or countries, see QL620+
- 618.7      Poisonous fishes. Dangerous fishes
  - Cf. QL638.93 Shark attacks
- 619      Geographical distribution
  - For geographical distribution of systematic divisions see QL637.9+
  - General works
  - Physiographic divisions
    - Marine fishes
      - For marine fishes of a particular coast see QL625+
- 620      General works
- 620.2      Circumpolar
  - Cf. QL637 Arctic Ocean
  - Cf. QL637.2 Antarctic Ocean
- 620.4      Circumtropical
- 620.45      Coral reefs
- 620.6      Intertidal fishes
  - Atlantic Ocean
    - Cf. QL632.5 Atlantic Ocean islands
- 621      General works
  - North Atlantic
    - General works
- 621.2      Eastern North Atlantic
  - Including the coast of Europe
- 621.3      General works
- 621.32      Greenland Sea
- 621.34      Norwegian Sea
- 621.35      Baltic Sea
  - Including the Gulf of Bothnia

## Chordates. Vertebrates

## Fishes

## Geographical distribution

## Physiographic divisions

## Marine fishes

## Atlantic Ocean

## North Atlantic

## Eastern North Atlantic -- Continued

621.36 Kattegat. Skagerrak

621.37 North Sea

621.38 English Channel

621.39 Irish Sea

621.395 Biscay, Bay of

## Mediterranean Sea

621.4 General works

621.42 Adriatic Sea

621.44 Aegean Sea

621.46 Black Sea

## Western North Atlantic

## Including the coast of North America

621.5 General works

621.52 Baffin Bay

621.53 Davis Strait

621.54 Newfoundland Banks

621.56 Gulf of Mexico

621.58 Caribbean Sea

## Central Atlantic. Tropical Atlantic

621.6 General works

621.62 Eastern Central Atlantic

621.65 Western Central Atlantic

## South Atlantic

621.7 General works

## Eastern South Atlantic

## Including the coast of Africa

621.72 General works

621.75 Gulf of Guinea

621.77 Western South Atlantic

## Including the coast of South America

## Indian Ocean

## Cf. QL636.7 Indian Ocean islands

622 General works

## North Indian Ocean

622.2 General works

## Arabian Sea

622.3 General works

622.32 Persian Gulf

622.34 Red Sea

622.36 Gulf of Aden

## Bay of Bengal

622.4 General works

622.45 Andaman Sea

## South Indian Ocean

622.5 General works

622.55 Mozambique Channel

## Pacific Ocean

## Cf. QL636.5 Pacific islands

## Chordates. Vertebrates

## Fishes

## Geographical distribution

## Physiographic divisions

## Marine fishes

## Pacific Ocean -- Continued

623

## General works

## North Pacific

623.2

## General works

623.3

## Bering Sea

## Eastern North Pacific

Including the coast of North America

623.4

## General works

623.45

## Gulf of Alaska

## Western North Pacific

Including the coast of Asia

623.5

## General works

623.52

## Okhotsk Sea

623.53

## Japan Sea

623.54

## Yellow Sea

## China Sea

623.548

## General works

623.55

## East China Sea

623.56

## South China Sea

623.58

## Philippine Sea

623.59

## Tonkin, Gulf of

623.6

## Central Pacific. Tropical Pacific

## South Pacific

623.7

## General works

623.8

## Eastern South Pacific

Including the coast of South America

## Western South Pacific

Including Australasia

623.9

## General works

623.92

## Java Sea

623.94

## Coral Sea

623.96

## Tasman Sea

623.98

## Indo-Pacific region

## Arctic Ocean see QL637

## Antarctic Ocean see QL637.2

624

## Freshwater fishes

Class here general works only

For fishes of a particular area see QL625+

## Topographic divisions

## North America

625

## General works

625.5

## Great Lakes

## Canada

626

## General works

626.5.A-Z

By region or province, A-Z

## United States

627

## General works

628.A-Z

By region or state, A-Z

Cf. QL636.5 Hawaii

## Latin America

628.5

## General works

## Chordates. Vertebrates

## Fishes

## Geographical distribution

## Topographic divisions

## Latin America -- Continued

- 629 Mexico
- 630 Central America (Table Q3)
- 631 West Indies (Table Q3)
- 632 South America (Table Q3)
- 632.5 Atlantic Ocean islands (Table Q3)
- 633 Europe (Table Q3)
- 634 Asia (Table Q3)
- 635 Africa (Table Q3)

## Australia

- 636 General works
- 636.15.A-Z By state, territory, or region, A-Z
- 636.2 New Zealand
- 636.5 Pacific islands (Table Q3)
- 636.7 Indian Ocean islands (Table Q3)
- 637 Arctic regions
  - Including the Arctic Ocean
- 637.2 Antarctica
  - Including the Antarctic Ocean
- 637.5 Tropics

## Systematic divisions

- 637.9.A-Z Osteichthys (Bony fishes). By order, A-Z
  - Class species, genera, and families in QL638
  - Class single-family orders with family in QL638
  - For general works and works on higher groups of bony fishes, except dipnoid and ganoid fishes see QL615
  - For general works on dipnoid and ganoid fishes see QL638.3
- 637.9.A3 Acipenseriformes
- 637.9.A5 Amiiiformes see QL638.A37
- 637.9.A8 Anguilliformes (Eels)
- 637.9.A93 Atheriniformes
- 637.9.B36 Aulopiformes
- 637.9.B4 Batrachoidiformes see QL638.B3
- 637.9.C35 Beloniformes
- 637.9.C38 Beryciformes
- 637.9.C4 Ceratodontiformes see QL638.C356
- 637.9.C9 Cetomimiformes
- 637.9.C95 Channiformes see QL638.C486
- 637.9.D3 Characiformes
- 637.9.D5 Clupeiformes
- 637.9.E4 Coelacanthiformes see QL638.L26
- 637.9.G3 Ctenothrissiformes see QL638.M13
- 637.9.G37 Cypriniformes
- 637.9.G6 Cyprinodontiformes
- 637.9.G94 Dactylopteriformes
- Gadiformes
- Gasterosteiformes
- Gobiesociformes see QL638.G6
- Gonorynchiformes
- Gymnotiformes



## Chordates. Vertebrates

## Fishes

## Systematic divisions

Osteichthys (Bony fishes). By order, A-Z -- Continued

- 637.9.L3 Lampridiformes  
 637.9.L6 Lepisosteiformes see QL638.L4  
 637.9.M6 Lophiiformes  
 637.9.M93 Mormyriiformes  
 637.9.N6 Myctophiformes  
 637.9.O63 Notacanthiformes  
 637.9.O76 Ophidiiformes  
 637.9.O8 Osmeriformes  
 637.9.P46 Osteoglossiformes  
 637.9.P47 Pegasiformes see QL638.P32  
 637.9.P5 Perciformes  
 637.9.S3 Percopsiformes  
 637.9.S35 Pleuronectiformes  
 637.9.S5 Polypteriformes see QL638.P76  
 637.9.S9 Salmoniformes  
 637.9.T4 Scorpaeniformes  
 637.9.Z4 Siluriformes  
 638.A-Z Synbranchiformes  
 638.A15 Tetraodontiformes  
 638.A2 Zeiformes  
 638.A25 Osteichthyes (Bony fishes). By family, A-Z  
 638.A27 Class here works on species, genera, and families  
 638.A3 Acanthoclinidae  
 638.A316 Acanthuridae (Surgeonfishes)  
 638.A32 Acipenseridae (Sturgeons)  
 638.A335 Acropomatidae  
 638.A34 Adrianichthyidae  
 638.A35 Ageneiosidae  
 638.A36 Agonidae (Poachers)  
 638.A37 Akysidae  
 638.A38 Alabetidae see QL638.G6  
 638.A39 Albulidae (Bonefishes)  
 638.A4 Alepisauridae (Lancetfishes)  
 638.A44 Alepocephalidae  
 638.A47 Amarsipidae  
 638.A5 Amblycipitidae  
 638.A53 Amblyopsidae (Cavefishes)  
 638.A56 Amiidae (Bowfins)  
 638.A57 Ammodytidae (Sand lances)  
 638.A58 Amphiliidae  
 638.A59 Amphipnoidae  
 638.A60 Anabantidae  
 638.A61 Anablepidae  
 638.A62 Anarhichadidae (Wolffishes)  
 638.A63 Anguillidae (Freshwater eels)  
 638.A64 Anisochromidae see QL638.P84  
 638.A65 Anomalopidae  
 638.A66 Anoplogasteridae  
 638.A67 Anoplopomatidae (Sablefishes)  
 638.A68 Anostomidae  
 638.A69 Anotopteridae (Daggertooths)  
 638.A70 Antennariidae (Frogfishes)

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony fishes). By family, A-Z -- Continued

638.A6	Aoteidae
638.A63	Aphredoderidae (Pirate perches)
638.A64	Aploactinidae
638.A642	Aplocheilidae
638.A643	Aplochitonidae
638.A65	Aplodactylidae
638.A7	Apogonidae (Cardinalfishes)
638.A73	Apteronotidae
	Arapaimidae see QL638.O88
638.A75	Argentidae
638.A755	Ariidae (Sea catfishes)
638.A77	Arripidae
638.A78	Aspredinidae
638.A785	Astroblepidae
638.A788	Astronesthidae
638.A79	Ateleopodidae
638.A8	Atherinidae (Silversides)
638.A83	Auchenipteridae
638.A84	Aulopodidae
638.A844	Aulorhynchidae
638.A848	Aulostomidae (Trumpetfishes)
638.B13	Bagridae
638.B15	Balistidae (Triggerfishes; filefishes)
638.B153	Balitoridae (Hillstream loaches)
638.B155	Banjosiidae
638.B17	Barbourisiidae
638.B18	Bathyclupeidae
638.B2	Bathyaconidae
638.B23	Bathylaconidae
638.B25	Bathylagidae (Deepsea smelts)
638.B26	Bathymasteridae (Ronquils)
638.B27	Bathypteroidae
638.B3	Batrachoididae (Toadfishes)
638.B34	Belonidae (Needlefishes)
638.B347	Belontiidae
638.B4	Berycidae
638.B6	Blenniidae (Combtooth blennies)
638.B65	Bothidae (Lefteye flounders)
638.B67	Bovichthyidae
638.B7	Bracionichthyidae (Handfishes)
638.B8	Bramidae (Pomfrets)
638.B83	Branchiostegidae (Tilefishes)
638.B85	Bregmacerotidae (Codlets)
638.C12	Caesionidae
638.C14	Callichthyidae
638.C15	Callionymidae (Dragonets)
638.C2	Caproidae (Boarfishes)
638.C23	Caracanthidae
638.C25	Carangidae (Jacks; pompanos)
638.C26	Carapidae (Pearlfishes)
638.C265	Caristiidae
638.C27	Catostomidae (Suckers)

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony fishes). By family, A-Z -- Continued

638.C28	Caulophryidae
638.C3	Centrarchidae (Sunfishes)
638.C32	Centriscidae (Snipefishes)
638.C326	Centrolophidae
638.C33	Centrophryidae
638.C34	Centropomidae (Snooks)
638.C347	Cepolidae
638.C35	Ceratiidae (Seadevils)
638.C356	Ceratodontidae
638.C36	Cetomimidae
638.C37	Cetopsidae
638.C385	Chacidae
638.C4	Chaenopsidae
638.C48	Chaetodontidae (Butterflyfishes)
638.C483	Champsodontidae
638.C484	Chanidae
638.C485	Channichthyidae
638.C486	Channidae
638.C5	Characidae (Characins; tetras)
638.C53	Chaudhuriidae
638.C534	Chauliodontidae (Viperfishes)
638.C5344	Chaunacidae
638.C536	Cheilodactylidae
638.C5365	Cheimarrichthyidae
638.C54	Chiasmodontidae
638.C544	Chilodontidae
638.C547	Chironemidae
638.C549	Chlorophthalmidae (Greeneyes)
638.C55	Cichlidae (Cichlids)
638.C577	Cirrhitidae (Hawkfishes)
638.C578	Citharidae
638.C5785	Citharinidae
638.C6	Clariidae (Airbreathing catfishes)
638.C63	Clinidae (Clinids; blennies)
638.C64	Clupeidae (Herrings)
638.C647	Cobitidae (Loaches)
(638.C65)	Coelacanthidae see QL638.L26
638.C6535	Colocongridae
638.C654	Comephoridae
638.C655	Congiopodidae
638.C66	Congridae (Conger eels)
638.C666	Congrogadidae
638.C7	Coracinidae
	Coregonidae see QL638.S2
638.C795	Coryphaenidae (Dolphinfishes)
	Coryphaenoididae see QL638.M2
638.C8	Cottidae (Sculpins)
638.C816	Cottocomephoridae
638.C818	Cottunculidae
638.C83	Cranoglanididae
638.C84	Creediidae

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony fishes). By family, A-Z -- Continued

638.C88	Ctenoluciidae
638.C89	Curimatidae
638.C9	Cyclopteridae (Lumpsuckers; snailfishes)
638.C914	Cyemidae
638.C92	Cynodontidae
638.C93	Cynoglossidae (Tonguefishes)
638.C94	Cyprinidae (Minnows; carps)
638.C96	Cyprinodontidae (Killifishes)
638.D3	Dactylopteridae (Flying gurnards)
638.D35	Dactyloscopidae (Sand stargazers)
638.D4	Denticipitidae
638.D47	Derichthyidae
638.D5	Diceratiidae
638.D56	Diodontidae (Porcupinefishes)
638.D57	Diplomystidae
638.D577	Dirtmidae
638.D58	Distichodontidae
638.D6	Doradidae
638.D73	Drepaneidae (Sicklefishes)
	Dummumieriidae see QL638.C64
638.D93	Dysommidae (Arrowtooth eels)
638.D95	Dysommidae
638.E2	Echeneidae (Remoras)
638.E34	Electrophoridae (Electric eel)
638.E4	Elopidae (Ladyfishes, etc.)
638.E5	Embiotocidae (Surfperches)
638.E53	Emmelichthyidae (Bonnetmouths)
638.E55	Engraulidae (Anchovies)
638.E556	Enoplosidae
638.E6	Ephippidae (Spadefishes)
638.E62	Epigonidae (Deepwater cardinalfishes)
638.E65	Erythrinidae
638.E7	Esocidae (Pikes)
638.E8	Eurypharyngidae
638.E83	Eutaeniophoridae
638.E87	Evermannellidae
638.E9	Exocoetidae (Flying fishes)
	Fierasferidae see QL638.C26
638.F5	Fistulariidae (Cornetfishes)
638.F6	Formionidae
638.F86	Fundulidae
638.G2	Gadidae (Codfishes)
638.G23	Gadopsidae
638.G25	Galaxiidae
638.G266	Gasteropelecidae
638.G27	Gasterosteidae (Sticklebacks)
638.G4	Gempylidae (Snake mackerels)
638.G43	Gerridae (Mojarras)
638.G45	Gibberichthyidae
638.G455	Gigantactinidae
638.G5	Giganturidae
638.G55	Glaucosomitidae (Pearl perches)

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony fishes). By family, A-Z -- Continued

- 638.G6 Gobiesocidae (Clingfishes)  
 638.G7 Gobiidae (Gobies)  
 638.G73 Gobioididae  
 638.G75 Gonorynchidae  
 638.G8 Gonostomatidae (Lightfishes)  
 638.G82 Goodeidae  
 638.G843 Grammicolepididae  
 638.G844 Grammatidae  
 638.G848 Grammistidae (Soapfishes)  
 638.G85 Gregoryinidae  
 638.G87 Gymnarchidae  
 Gymnodontidae see QL638.T32  
 638.G9 Gymnotidae  
 638.G95 Gyrinocheilidae  
 638.H23 Haemulidae (Grunts)  
 638.H25 Halosauridae  
 638.H28 Harpagiferidae  
 638.H3 Harpodontidae  
 638.H444 Helogeneidae  
 638.H448 Helostomatidae  
 638.H45 Hemiodontidae  
 638.H46 Hemiramphidae (Halfbeaks)  
 638.H47 Hepsetidae  
 638.H484 Heterenchelyidae  
 638.H486 Heteropneustidae  
 638.H49 Hexagrammidae (Greenlings)  
 638.H54 Himantolophidae (Footballfishes)  
 638.H56 Hiodontidae (Mooneyes)  
 638.H64 Holocentridae (Squirrelfishes)  
 (638.H66) Homalopteridae  
     see QL638.B153  
 638.H67 Hoplichthyidae  
 638.H68 Horaichthyidae  
 638.H93 Hypophthalmidae  
 638.H935 Hypoptychidae  
 638.I13 Icelidae  
 638.I15 Ichthyboridae  
 638.I23 Icosteidae (Ragfishes)  
 638.I3 Ictaluridae (Freshwater catfishes)  
 638.I35 Idiacanthidae  
 638.I4 Indostomidae  
 638.I6 Ipnopidae  
 638.I86 Isonidae  
 638.I88 Istiophoridae (Billfishes)  
 638.J4 Jenynsiidae  
 638.K3 Kasidoridae  
 638.K5 Kneriidae  
 638.K6 Korsogasteridae  
 638.K7 Kraemeriidae  
 638.K8 Kuhliidae  
 638.K87 Kurtidae  
 638.K9 Kyphosidae (Sea chubs)

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony fishes). By family, A-Z -- Continued

638.L115	Labracoglossidae
638.L12	Labridae (Wrasses)
638.L2	Lacteriidae
638.L24	Lampridae (Opahs)
638.L26	Latimeriidae
638.L28	Latridae
638.L3	Lebiasinidae
638.L35	Leiognathidae
638.L37	Lepidosirenidae
638.L4	Lepisosteidae (Gars)
638.L47	Leptoscopidae
638.L48	Lethrinidae
638.L5	Limnichthyidae
638.L55	Linophrynidae
	Liparidae see QL638.C9
638.L57	Lipogenidae
638.L6	Lobotidae (Tripletails)
638.L75	Lophiidae (Goosefishes)
638.L77	Lophotidae (Crestfishes)
638.L785	Loricariidae (Armored catfishes)
638.L8	Luciocephalidae
638.L9	Lutjanidae (Snappers)
638.L95	Luvaridae (Louvars)
638.M13	Macristiidae
638.M16	Macrocephenchelyidae
638.M165	Macrorhamphosidae
638.M2	Macrouridae (Grenadiers)
638.M22	Macrurocyttidae
638.M24	Malacosteidae
638.M246	Malapteruridae
638.M28	Mastacembelidae
638.M33	Megalopidae (Tarpon)
638.M34	Melamphaeidae
638.M35	Melanocetidae
	Melanostomiatidae see QL638.M3573
638.M3573	Melanostomiidae
638.M358	Melanoaeniidae
638.M37	Menidae
638.M4	Merlucciidae
638.M5	Microdesmidae (Wormfishes)
	Microstomidae see QL638.B25
638.M57	Mirapinnidae
638.M6	Mochokidae
638.M64	Molidae (Molas)
638.M645	Monacanthidae
638.M65	Monocentridae
638.M653	Monodactylidae
638.M654	Monognathidae
638.M67	Moridae
638.M675	Moringuidae (Spaghetti eels)
638.M676	Mormyridae
638.M678	Moronidae

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony fishes). By family, A-Z -- Continued

- 638.M8  
(638.M84) Mugilidae (Mulletts)  
Mugiloididae  
    see QL638.P613
- 638.M85 Mullidae (Goatfishes)  
638.M87 Muraenesocidae (Pike congers)  
638.M875 Muraenidae (Morays)  
638.M876 Muraenolepididae  
638.M9 Myctophidae (Lanternfishes)  
638.M97 Myrocongridae  
638.N25 Nandidae  
638.N3 Neenchelyidae  
638.N33 Nematistiidae  
638.N34 Nemichthyidae (Snipe eels)  
638.N347 Nemipteridae  
638.N36 Neoceratiidae  
638.N38 Neoscopelidae  
638.N387 Neostethidae  
638.N4 Nessorhamphidae  
638.N46 Nettastomatidae  
638.N5 Nomeidae  
638.N57 Normanichthyidae  
638.N58 Notacanthidae (Spiny eels)  
638.N586 Notograptidae  
638.N5867 Notopteridae  
638.N5873 Notosudidae  
638.N6 Nototheniidae  
Novumbridae see QL638.U5
- 638.O2 Odacidae  
638.O23 Odontobutidae  
638.O3 Ogcocephalidae (Batfishes)  
638.O4 Olyridae  
638.O45 Omosudidae  
638.O5 Oneirodidae  
638.O633 Ophichthidae (Snake eels)  
638.O634 Ophiclinidae  
638.O637 Ophidiidae (Cusk eels)  
638.O65 Opisthognathidae (Jawfishes)  
638.O657 Opisthoproctidae (Spookfishes)  
638.O67 Oplegnathidae  
638.O7 Oreosomatidae  
638.O78 Oryziatidae  
638.O84 Osmeridae (Smelts)  
638.O87 Osphronemidae  
638.O88 Osteoglossidae  
638.O887 Ostraciontidae  
638.O9 Owstoniidae  
Oxudercidae see QL638.G7
- 638.P254 Pangasiidae  
638.P258 Pantodontidae  
638.P3 Paralepididae  
638.P313 Paralichthyidae (Sand flounders)  
638.P315 Parazenidae

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony fishes). By family, A-Z -- Continued

638.P316	Parodontidae
638.P318	Pataecidae
638.P32	Pegasidae
638.P34	Pempheridae (Sweepers)
638.P35	Pentacerotidae (Armorheads)
638.P357	Penatpodidae
638.P358	Percichthyidae
638.P4	Percidae (Perches; darters)
638.P464	Percophidae (Flatheads)
638.P468	Percopsidae (Trout-perches)
638.P47	Peronedysidae
638.P5	Phallostethidae
638.P55	Pholidichthyidae
638.P56	Pholididae (Gunnels)
638.P57	Phractolaemidae
638.P58	Phycidae
638.P6	Pimelodidae
638.P613	Pinguipedidae (Sandperches)
638.P62	Platycephalidae
638.P63	Platytroctidae
638.P64	Plecoglossidae
638.P648	Plesiopidae
638.P7	Pleuronectidae (Righteye flounders)
638.P72	Plotosidae
638.P73	Poeciliidae (Livebearers)
638.P747	Polymixiidae (Beardfishes)
638.P75	Polynemidae (Threadfins)
638.P755	Polyodontidae (Paddlefishes)
638.P76	Polypteridae
638.P768	Pomacanthidae (Marine angelfishes)
638.P77	Pomacentridae (Damselfishes)
(638.P772)	Pomadasyidae (Grunts)
	see QL638.H23
638.P778	Pomatomidae (Bluefishes)
638.P785	Priacanthidae (Bigeyes)
638.P786	Prochilodontidae
638.P788	Profundulidae (Middle American killifishes)
638.P8	Psettodidae
638.P84	Pseudochromidae
638.P844	Pseudogrammididae
	Pseudoplesiopidae see QL638.P84
638.P855	Psilorhynchidae
638.P88	Psychrolutidae
638.P9	Ptilichthyidae (Quillfishes)
	Pygidiidae see QL638.T76
638.P97	Pyramodontidae
638.R3	Rachycentridae (Cobias)
638.R4	Regalecidae (Oarfishes)
638.R48	Retropinnidae
638.R5	Rhamphichthyidae
638.R55	Rhinoprenidae
638.R59	Rhyacichthyidae



## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony fishes). By family, A-Z -- Continued

638.R65	Rondeletiidae
638.R68	Rosauridae
638.S15	Saccopharyngidae
638.S18	Salangidae
638.S2	Salmonidae (Salmon; trout; whitefishes)
638.S3	Scaridae (Parrotfishes)
638.S32	Scatophagidae (Scats)
638.S334	Schilbeidae
638.S335	Schindleriidae
638.S34	Sciaenidae (Drums)
638.S347	Scomberesocidae (Sauries)
638.S35	Scombridae (Tuna; mackerel)
638.S374	Scopelarchidae (Pearleyes)
	Scopelosauridae see QL638.N5873
638.S38	Scophthalmidae
638.S42	Scorpaenidae (Scorpionfishes)
638.S45	Scytalinidae (Graveldivers)
(638.S47)	Searsidae (Tubeshoulders)
	see QL638.P63
638.S48	Serranidae (Sea basses)
(638.S483)	Serrasalminidae
	see QL638.C5
638.S485	Serrivomeridae
638.S5	Siganidae
638.S54	Sillaginidae
638.S6	Siluridae (Old World catfishes)
638.S64	Simenchelyidae
638.S68	Sisoridae
638.S7	Soleidae (Soles)
638.S73	Solenostomidae
638.S74	Sparidae (Porgies)
638.S77	Sphyrnaeidae (Barracudas)
638.S785	Stephanoberycidae
638.S8	Sternoptychidae
638.S83	Sternopygidae (Glass knifefishes)
638.S84	Stichaeidae (Pricklebacks)
638.S86	Stomiidae
638.S87	Stromateidae (Butterfishes)
638.S88	Stylephoridae (Tube-eyes)
	Synancejidae see QL638.S42
638.S892	Synaphobranchidae
638.S893	Synbranchidae
638.S9	Syngnathidae (Pipefishes; seahorses)
638.S96	Synodontidae (Lizardfishes)
638.T27	Teraponidae
	Tetragonopteridae see QL638.C5
638.T3	Tetraodonidae
638.T32	Tetraodontidae (Puffers)
	Theraponidae see QL638.T27
	Thunnidae see QL638.S35
638.T55	Todaridae
638.T6	Toxotidae

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony fishes). By family, A-Z -- Continued

- 638.T68 Trachichthyidae
- 638.T685 Trachinidae
- 638.T69 Trachipteridae (Ribbonfishes)
- 638.T695 Triacanthidae (Spikefishes)
- 638.T7 Trichiuridae (Cutlassfishes)
- 638.T73 Trichodontidae (Sandfishes)
- 638.T76 Trichomycteridae
- 638.T78 Trichonotidae
- 638.T8 Triglide (Searobins)
- 638.T85 Triodontidae
- 638.T87 Tripterygiidae
- 638.T95 Trypauchenidae
- 638.U5 Umbridae (Mudminnows)
- 638.U7 Uranoscopidae (Stargazers)
- 638.V4 Veliferidae
- 638.X4 Xenocephalidae
- 638.X45 Xenocongridae (False morays)
- 638.X5 Xiphiidae (Swordfishes)
- 638.Z28 Zanclidae (Moorish idol)
- 638.Z3 Zaniolepididae
- 638.Z36 Zaproridae (Prowfishes)
- 638.Z4 Zeidae (Dories)
- 638.Z6 Zoarcidae (Eelpouts)

## Agnatha (Jawless fishes)

- 638.12 General works
- Myxini
  - 638.13 General works
  - Myxiniformes (Hagfishes)
    - 638.14 General works
    - 638.15.A-Z By family, A-Z
    - (638.15.B35) Bdellostomatidae
      - see QL638.15.M9
    - 638.15.M9 Myxinidae
    - (638.15.P37) Paramyxinidae
      - see QL638.15.M9
- Cephalaspidomorphi
  - 638.18 General works
  - Petromyzontiformes (Lampreys)
    - 638.2 General works
    - 638.25.A-Z By family, A-Z
    - 638.25.G45 Geotriidae
    - 638.25.P48 Petromyzontidae
- 638.3 Dipnoid fishes
  - Class here general works only
  - For specific fishes see QL637.9+
- 638.5 Ganoid fishes
  - Class here general works only
  - For specific fishes see QL637.9+
- Chondrichthyes (Cartilaginous fishes)
  - 638.6 General works
  - Chimaeriformes
    - 638.7 General works

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Chondrichthyes (Cartilaginous fishes)

## Chimaeriformes -- Continued

638.75.A-Z  
638.75.C4

## By family, A-Z

## Chimaeridae (Chimaeras)

## Pristiformes (Sawfishes)

638.77  
638.78.A-Z  
638.78.P75

## General works

## By family, A-Z

## Pristidae

## Rajiformes (Rays)

638.8  
638.85.A-Z  
638.85.A5  
638.85.A7  
638.85.D3  
638.85.G9  
638.85.H48  
638.85.M6  
638.85.M9  
638.85.P6  
(638.85.P7)

## General works

## By family, A-Z

## Anacanthobatidae

## Arhynchobatidae

## Dasyatidae (Stingrays)

## Gymnuridae

## Hexatrygonidae (Sixgill stingrays)

## Mobulidae (Manta rays)

## Myliobatidae (Eagle rays)

## Potamotrygonidae (Freshwater stingrays)

## Pristidae (Sawfishes)

see QL638.78.P75

638.85.R3  
638.85.R4

## Rajidae (Skates)

## Rhinobatidae (Guitarfishes)

## Rhinopteridae see QL638.85.M9

## Rhynchobatidae

## Torpedinidae

see QL638.875.T6

## Urolophidae see QL638.85.D3

## Torpediniformes (Electric rays)

638.87  
638.875.A-Z  
638.875.T6

## General works

## By family, A-Z

## Torpedinidae (Torpedo electric rays)

## Sharks

638.9  
638.93

## General works

## Shark attacks. Shark repellents

## Systematic divisions

638.94.A-Z

## By order, A-Z

Class species, genera, and families in QL638.95

Class single-family orders with the family in QL638.95

638.94.C37

## Carcharhiniformes (Ground sharks)

## Heterodontiformes see QL638.95.H4

638.94.H49  
638.94.L36  
638.94.O74

## Hexanchiformes

## Lamniformes

## Orectolobiformes (Carpet sharks)

## Pristiophoriformes see QL638.95.P7

638.94.S75

## Squaliformes

## Squatiniformes see QL638.95.S88

638.95.A-Z  
638.95.A4  
638.95.C3

## By family, A-Z

## Alopiidae (Thresher sharks)

## Carcharhinidae (Requiem sharks)

## Carchariidae see QL638.95.O3

## Centrophoridae (Gulper sharks)

638.95.C36  
638.95.C37

## Cetorhinidae (Basking shark)

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Chondrichthyes (Cartilaginous fishes)

## Sharks

## Systematic divisions

## By family, A-Z -- Continued

- 638.95.C4 Chlamydoselachidae (Frisled sharks)  
 638.95.D3 Dalatiidae (Kitefin sharks; sleeper sharks)  
 Echniorhinidae see QL638.95.S84  
 638.95.E85 Etmopteridae (Lantern sharks)  
 638.95.G55 Ginglymostomatidae (Nurse sharks)  
 638.95.H4 Heterodontidae (Bullhead sharks)  
 638.95.H48 Hexanchidae (Cow sharks)  
 Isuridae see QL638.95.L3  
 638.95.L3 Lamnidae (Mackerel sharks)  
 638.95.M44 Megachasmidae (Megamouth shark)  
 638.95.M58 Mitsukurinidae (Goblin shark)  
 638.95.O3 Odontaspidae (Sand tigers)  
 638.95.O7 Orectolobidae (Wobbegongs)  
 638.95.P7 Pristiophoridae (Saw sharks)  
 638.95.P8 Pseudotriakidae (False cat shark)  
 638.95.R4 Rhincodontidae (Whale shark)  
 638.95.S3 Scapanorhynchidae  
 638.95.S38 Scyliorhinidae (Cat sharks)  
 Somniosidae see QL638.95.D3  
 638.95.S7 Sphyrnidae (Hammerhead sharks)  
 638.95.S84 Squalidae (Dogfish sharks)  
 638.95.S88 Squatinidae (Angel sharks)  
 638.95.S92 Stegostomatidae (Zebra shark)  
 638.95.T75 Triakidae (Houndsharks)
- 638.97 Immunology  
 638.99 Genetics  
 639 Anatomy and morphology  
 639.1 Physiology  
 Including electrophysiology and electric fishes  
 For effects of pollution, disease, etc. see SH171+  
 639.15 Age determination. Age/growth calculations. Length/weight relationships  
 For particular groups or species see QL637.9+  
 639.16 Racial analysis  
 639.2 Reproduction and spawning  
 Cf. SH155.6 Artificial spawning  
 Cf. SH155.7 Induced spawning  
 639.25 Development. Eggs and larvae  
 639.3 Behavior  
 639.4 Locomotion  
 639.5 Migration. Diadromy  
 Cf. SH156.8 Fish tagging  
 639.6 Vertical distribution  
 Including diel vertical migration  
 639.8 Ecology  
 Parasites see SH175
- Reptiles and amphibians  
 640 Periodicals, societies, congresses, serial publications  
 640.5 Collected works (nonserial)  
 640.7 Dictionaries and encyclopedias

## Chordates. Vertebrates

## Reptiles and amphibians -- Continued

- 641 General works, treatises, and textbooks
- 643 Pictorial works and atlases
- 644 Popular works
- 644.2 Juvenile works
- Rare and endangered species
- 644.7 General works
- 644.73.A-Z By region or country, A-Z
- Extinct reptiles and/or amphibians
- 644.8 General works
- 644.83.A-Z By region or country, A-Z
- 645 Classification. Nomenclature
- 645.2 Catalogs and collections
- Evolution
- 645.3 General works
- 645.4 Speciation
- 645.5 Variation
- Study and teaching. Research
  - Including census taking, banding, marking, tagging, etc., and general works on amphibian and reptile watching and viewing sites
- 645.6 General works
- 645.63.A-Z By region or country, A-Z
- 645.65 Collection and preservation
- 645.7 Dangerous reptiles
- Geographical distribution
  - Class here works on the reptiles and/or amphibians of a specific region
  - For geographical distribution of systematic divisions see QL666.A+
- 648 General works
- North America
- 651 General works
- United States
  - 652 General works
  - 653.A-Z By region or state, A-Z
  - Canada
    - 654 General works
    - 654.2.A-Z By region, province, or territory, A-Z
  - Latin America
    - 654.5 General works
    - 655 Mexico
      - Including Yucatán Peninsula
    - 656 Central America (Table Q3)
    - 656.5 West Indies (Table Q3)
    - 657 South America (Table Q3)
    - 658 Europe (Table Q3)
    - 661 Asia (Table Q3)
    - 662 Africa (Table Q3)
    - 663 Australia
    - 663.5 New Zealand
    - 664 Pacific islands (Table Q3)
    - 664.2 Arctic regions
    - 664.4 Antarctica
    - 664.6 Tropics
  - Systematic divisions
  - Reptiles
  - 665 General works, treatises, and textbooks

- Chordates. Vertebrates  
 Reptiles and amphibians  
 Systematic divisions  
 Reptiles -- Continued  
 Juvenile works see QL644.2  
 Physiographic divisions  
 Aquatic reptiles. Water reptiles  
 665.3           General works  
 665.5           Marine reptiles. Sea reptiles  
 Geographical distribution see QL648+  
 666.A-Z       By order and family, A-Z  
                 Amphisbaenia see QL666.L192+  
                 Chelonia (Testudinata; turtles)  
 666.C5        General works  
 666.C52       Carettochelyidae (Pitted-shell turtles)  
 666.C535      Chelidae  
 666.C536      Cheloniidae  
 666.C539      Chelydridae  
 666.C54       Dermatemydidae  
 666.C546      Dermochelyidae (Leatherback turtle)  
 666.C547      Emydidae (Box turtles)  
 666.C55       Kinosternidae  
 666.C57       Pelomedusidae  
 666.C584      Testudinidae (Tortoises)  
 666.C587      Trionychidae (Softshell turtles)  
 Crocodylia (Crocodylians)  
 666.C9        General works  
 666.C925      Crocodylidae (Alligators; crocodiles; caimans; gavial)  
 (666.C94)     Gavialidae  
                 see QL666.C925  
 Squamata  
 666.L19       General works  
                 Amphisbaenia  
 666.L192      General works  
 666.L193      Amphisbaenidae  
 666.L194      Bipedidae  
                 Lacertilia (Sauria; lizards)  
 666.L2        General works  
 (666.L21-.L2196)   Geographical distribution  
                 see QL648+  
 666.L223      Agamidae  
                 Amphisbaenidae see QL666.L192+  
 666.L225      Anelytropsidae  
 666.L2254     Anguidae (Glass lizards)  
 666.L2256     Anniellidae  
 666.L23       Chamaeleontidae (Chameleons)  
 666.L234      Cordylidae (Girdle-tailed lizards)  
 666.L236      Corytophanidae  
 666.L237      Crotaphytidae  
 666.L238      Dibamidae  
 666.L24       Eublepharidae  
 666.L243      Feylinidae  
 666.L245      Gekkonidae (Geckos)  
 666.L247      Helodermatidae (Gila monsters)  
 666.L248      Hoplocercidae  
 666.L25       Iguanidae

## Chordates. Vertebrates

## Reptiles and amphibians

## Systematic divisions

## Reptiles

## By order and family, A-Z

## Squamata

## Lacertilia (Sauria; lizards) -- Continued

- 666.L255 Lacertidae
- 666.L2556 Lanthanotidae
- 666.L265 Opluridae
- 666.L267 Phrynosomatidae
- 666.L268 Polychrotidae
- 666.L27 Pygopodidae
- 666.L28 Scincidae (Skinks)
- Sphaerodactylidae see QL666.L245
- 666.L285 Teiidae
- 666.L287 Tropiduridae
- 666.L29 Varanidae (Monitor lizards)
- 666.L293 Xantusiidae
- 666.L295 Xenosauridae
- Serpentes (Ophidia; snakes)
- 666.O6 General works
- 666.O62 Acrochordidae (Wart snakes; file snakes)
- 666.O625 Aniliidae (False coral snakes; coral pipe snakes)
- 666.O626 Anomalepididae (Primitive blind snakes; dawn blind snakes)
- 666.O6265 Anomochilidae (Dwarf pipe snakes)
- 666.O627 Atractaspididae (Mole vipers)
- 666.O63 Boidae (Boas)
- 666.O633 Bolyeriidae (Round Island boas)
- 666.O636 Colubridae
- Crotalidae see QL666.O69
- 666.O638 Cyliodromidae (Asian pipe snakes)
- 666.O64 Elapidae (Cobras; coral snakes; sea snakes)
- (666.O645) Hydrophiidae
  - see QL666.O64
- 666.O65 Leptotyphlopidae (Slender blind snakes)
- 666.O66 Loxocemidae (Mexican burrowing pythons)
- 666.O67 Pythonidae
- 666.O68 Tropidophiidae (Dwarf boas)
- 666.O685 Typhlopidae (Blind snakes)
- 666.O688 Uropeltidae (Shield-tailed snakes)
- 666.O69 Viperidae (Vipers and pit vipers)
- 666.O694 Xenopeltidae (Sunbeam snakes)

## Rhynchocephalia

- 666.R4 General works
- 666.R48 Sphenodontidae (Tuatara)
- Squamata see QL666.L19+

## Amphibians

- 667 General works, treatises, and textbooks
- Juvenile works see QL644.2
- Geographical distribution see QL648+
- 668.A-Z By order and family, A-Z
- Gymnophiona (Apoda; caecilians)
- 668.A6 General works
- 668.A63 Caeciliidae
- 668.A65 Ichthyophiidae

## Chordates. Vertebrates

## Reptiles and amphibians

## Systematic divisions

## Amphibians

## By order and family, A-Z

## Gymnophiona (Apoda; caecilians) -- Continued

668.A67

Rhinatrematidae

668.A68

Scolecomorphidae

668.A69

Uraeotyphlidae

## Caudata (Urodela; salamanders; newts)

668.C2

General works

668.C23

Ambystomatidae (Mole salamanders)

668.C237

Amphiumidae

668.C24

Cryptobranchidae (Giant salamanders)

668.C243

Dicamptodontidae

668.C25

Hynobiidae

668.C274

Plethodontidae (Lungless salamanders)

668.C277

Proteidae

668.C278

Rhyacotritonidae

668.C28

Salamandridae (Newts)

668.C285

Sirenidae

## Ecaudata (Anura; Salientia; frogs; toads)

668.E2

General works

668.E214

Alytidae

668.E217

Ascaphidae (Tailed frogs)

(668.E22)

Atelopodidae

see QL668.E227

668.E224

Bombinatoridae

668.E225

Brevicipitidae

668.E227

Bufonidae (Toads)

668.E23

Centrolenidae (Glass frogs)

668.E232

Ceratobatrachidae

668.E233

Dendrobatidae

668.E234

Dicroglossidae

(668.E235)

Discoglossidae

see QL668.E214

668.E237

Hemiphractidae

668.E24

Hylidae (Tree frogs)

668.E244

Hyperoliidae

668.E255

Leiopelmatidae

668.E257

Leptodactylidae (Robber frogs)

668.E259

Mantellidae

668.E26

Microhylidae (Narrow-mouthed toads)

668.E2615

Myobatrachidae

668.E262

Pelobatidae (Eurasian spadefoot toads)

668.E2626

Pelodyadidae

668.E263

Pelodytidae

668.E264

Phrynomeridae

668.E265

Pipidae

668.E268

Pseudidae

668.E27

Ranidae (Frogs)

668.E274

Rhacophoridae

668.E275

Rhinophrynidae

668.E33

Scaphiopodidae (North American spadefoot toads)

668.5

Genetics

669

Anatomy and morphology



- Chordates. Vertebrates
  - Reptiles and amphibians
    - Systematic divisions -- Continued
      - 669.2 Physiology
      - 669.25 Age determination. Life spans. Longevity
      - 669.3 Reproduction
      - 669.5 Behavior
      - 669.8 Ecology
  - Birds
    - 671 Periodicals, societies, congresses, serial publications
    - 672 Collected works (nonserial)
    - 672.2 Dictionaries and encyclopedias
    - Communication of ornithological information
      - 672.5 Ornithological literature
      - 672.6 Language. Authorship
    - History
      - 672.7 General works
        - 672.73.A-Z By region or country, A-Z
      - 673 General works, treatises, and textbooks
      - 674 Pictorial works and atlases
      - 674.4 Ornithological illustration
      - 675 Birds' eggs and nests
      - 676 Popular works
      - 676.2 Juvenile works
      - Bird protection. Bird refuges. Important bird areas. Bird attracting
        - Including birdhouses, bird feeders, birdcall whistles, and gardening to attract birds
        - Cf. SK351+ Wildlife management. Game protection
      - 676.5 General works
        - By region or country
          - United States
            - 676.55 General works
            - 676.56.A-Z By region or state, A-Z
            - 676.57.A-Z Other regions or countries, A-Z
      - 676.7 Rare and endangered species
        - For local see QL676.55+
      - 676.8 Extinct birds
      - 677 Classification. Nomenclature
      - 677.2 Catalogs and collections
      - 677.3 Evolution
      - 677.4 Population dynamics
        - For mortality see QL698.25
      - 677.5 Study and teaching. Research
        - Including census taking, bird banding, and general works on bird watching and birding sites
      - 677.7 Collection and preservation
      - 677.75 Dangerous birds
      - 677.78 Birds of prey. Raptors
        - Cf. QL696.F3+ Falconiformes
        - Cf. QL696.S8+ Strigiformes
      - 677.79.A-Z Other types of birds, A-Z
        - 677.79.C38 Cavity-nesting birds
        - 677.79.E85 Exotic birds
        - 677.79.F55 Flightless birds
        - 677.79.F67 Forest birds
        - Game birds
          - see SF508+ Animal culture; SK311+ Hunting
        - 677.79.G73 Grassland birds

## Chordates. Vertebrates

## Birds

## Other types of birds, A-Z -- Continued

677.79.I58  
677.79.M68  
677.79.N63  
  
677.79.P37  
677.79.P57

Introduced birds  
Mountain birds  
Nocturnal birds  
Ornamental birds see SF512+  
Parasitic birds  
Piscivorous birds  
Talking birds see SF462.8  
Water birds see QL678.5+

677.8

Aviaries. Bird exhibitions  
Geographical distribution

For geographical distribution of systematic divisions see QL696.A+

678

General works

Physiographic divisions

For birds of a particular region or country or off the coast of a particular region or country see  
QL680+

Aquatic birds. Water birds

Including shore birds

For waterfowl see SF510.W3 Animal culture; SK331+ Hunting

678.5

General works

Marine birds. Sea birds

678.52

General works

By region

678.55

Atlantic Ocean

678.6

Indian Ocean

678.65

Pacific Ocean

Topographical divisions

679

Zone divisions

e.g. Palaeartic region

America

680

General works

North America and United States

681

General works

United States

682

General works

683.A-Z

By region, A-Z

684.A-.W

By state, A-W

Canada

685

General works

685.5.A-Z

By region or province, A-Z

Latin America

685.7

General works

686

Mexico

687

Central America (Table Q3)

688

West Indies (Table Q3)

689

South America (Table Q3)

690

Europe (Table Q3)

691

Asia (Table Q3)

691.5

Arab countries (General)

692

Africa (Table Q3)

Australasia

692.8

General works

Australia

693

General works

## Chordates. Vertebrates

## Birds

## Geographical distribution

## Australasia

## Australia -- Continued

693.3.A-Z By state, territory, or region, A-Z

693.5 New Zealand

694 Pacific islands (Table Q3)

694.5 Atlantic islands (Table Q3)

694.7 Indian Ocean islands (Table Q3)

695 Arctic regions

695.2 Antarctica

695.5 Tropics

696.A-Z Systematic divisions. By order and family, A-Z

## Accipitriformes see QL696.F3+

## Alciformes see QL696.C4+

## Anseriformes

696.A5 General works

696.A52 Anatidae (Ducks; geese; swans)

696.A53 Anhimidae (Screamers)

## Apodiformes

696.A55 General works

696.A552 Apodidae (Swifts)

696.A554 Hemiprocidae (Crested swifts)

696.A558 Trochilidae (Hummingbirds)

## Apterygiformes

696.A6 General works

696.A63 Apterygidae (Kiwis)

## Ardeiformes see QL696.C5+

## Caprimulgiformes

696.C2 General works

696.C22 Aegothelidae (Owlet frogmouths)

696.C23 Caprimulgidae (Goatsuckers)

696.C25 Nyctibiidae (Potoos)

696.C26 Podargidae (Frogmouths)

696.C28 Steatornithidae (Oilbirds)

## Casuariiformes

696.C3 General works

696.C33 Casuariidae (Cassowaries)

696.C34 Dromiceidae (Emus)

## Charadriiformes

696.C4 General works

696.C42 Alcidae (Auks; auklets; murre)

696.C428 Burhinidae (Thick-knees)

696.C43 Charadriidae (Plovers; turnstones; surfbirds)

696.C435 Chionidae (Sheathbills)

696.C44 Dromadidae (Crab plovers)

696.C448 Glareolidae (Pratincoles; coursers)

696.C452 Haematopodidae (Oystercatchers)

696.C457 Jacanidae (Jacanas)

696.C46 Laridae (Gulls; terns; skuas; jaegers)

696.C465 Pedionomidae

(696.C47) Phalaropodidae (Phalaropes)

see QL696.C48

696.C473 Recurvirostridae (Avocets; stilts)

696.C477 Rostratulidae (Painted snipes)

## Chordates. Vertebrates

## Birds

## Systematic divisions. By order and family, A-Z

## Charadriiformes -- Continued

- 696.C479 Rynchopidae (Skimmers)  
 696.C48 Scolopacidae (Snipes; woodcocks; sandpipers; phalaropes)  
 (696.C488) Stercorariidae  
     see QL696.C46  
 696.C49 Thinocoridae (Seedsnipes)

## Ciconiiformes

- 696.C5 General works  
 696.C52 Ardeidae (Herons; bitterns)  
 696.C525 Balaenicipitidae (Shoebill)  
 696.C53 Cathartidae (New World vultures)  
 696.C535 Ciconiidae (Storks; jabirus)  
 696.C536 Cochleariidae (Boatbilled herons)  
 696.C56 Phoenicopteridae (Flamingos)  
 696.C58 Scopidae (Hammerheads)  
 696.C585 Threskiornithidae (Ibises; spoonbills)

## Coccyges see QL696.C8+

## Coliiformes

- 696.C59 General works  
 696.C593 Coliidae (Colies)

## Columbiformes

- 696.C6 General works  
 696.C63 Columbidae (Pigeons; doves)  
 696.C66 Pteroclididae (Sandgrouses)  
 696.C67 Raphidae (Dodos; solitaires)

## Coraciiformes

- 696.C7 General works  
 696.C72 Alcedinidae (Kingfishers)  
 696.C725 Brachypteraciidae (Groundrollers)  
 696.C729 Bucerotidae (Hornbills)  
 696.C73 Coraciidae (Rollers)  
 696.C74 Leptosomatidae (Cuckoo rollers)  
 696.C754 Meropidae (Bee-eaters)  
 696.C756 Momotidae (Motmots)  
 (696.C77) Phoeniculidae (Wood hoopoes)  
     see QL696.U66  
 696.C78 Todidae (Todies)  
 (696.C79) Upupidae (Hoopoes)  
     see QL696.U68

## Cuculiformes

- 696.C8 General works  
 696.C83 Cuculidae (Cuckoos; roadrunners; anis)  
 696.C85 Musophagidae (Plaintain-eaters; touracos)

## Cypseliformes see QL696.A55+

## Falconiformes

- 696.F3 General works  
 696.F32 Accipitridae (Hawks; Old World vultures; harriers)  
     Including vultures (General)  
 (696.F33) Cathartidae (New World vultures)  
     see QL696.C53  
 696.F34 Falconidae (Falcons; caracaras)  
 696.F36 Pandionidae (Ospreys)  
 696.F38 Sagittariidae (Secretarybirds)

## Chordates. Vertebrates

## Birds

## Systematic divisions. By order and family, A-Z -- Continued

## Galliformes

- 696.G2 General works
- 696.G23 Cracidae (Curassows; guans; chachalacas)
- 696.G25 Megapodiidae (Megapodes)
- (696.G254) Meleagrididae (Turkeys)  
see QL696.G27
- 696.G258 Numididae (Guineafowl)
- 696.G259 Odontophoridae (New World quails)
- 696.G26 Opisthocomidae (Hoatzins)
- 696.G27 Phasianidae (Pheasants, Old World quails, grouse, partridges, peafowls, turkeys)
- (696.G285) Tetraonidae (Grouse)  
see QL696.G27

## Gaviiformes

- 696.G3 General works
- 696.G33 Gaviidae (Loons)

## Gruiformes

- 696.G8 General works
- 696.G82 Aramidae (Limpkins)
- 696.G827 Cariamidae (Seriemas)
- 696.G83 Eurypgidae (Sunbitterns)
- 696.G84 Gruidae (Cranes)
- 696.G845 Heliornithidae (Sungrebes)
- 696.G85 Mesitornithidae (Roatelos)
- 696.G86 Otididae (Bustards)
- Pedionomidae see QL696.C465
- 696.G874 Psophiidae (Trumpeters)
- 696.G876 Rallidae (Rails; coots)
- 696.G878 Rhynchotidae (Kagus)
- 696.G89 Turnicidae (Bustardquails)

Halcyones see QL696.C72

Lariformes see QL696.C46

Limicolae see QL696.C4+

Meropidae see QL696.C754

Musophagiformes see QL696.C85

## Passeriformes

- 696.P2 General works
- 696.P212 Acanthisittidae (New Zealand wrens)
- 696.P213 Acanthizidae (Australasian warblers)
- 696.P2133 Acrocephalidae (Reed warblers and allies)
- 696.P2135 Aegithalidae (Long-tailed tits; bushtits)
- Aegithinidae see QL696.P2344
- 696.P214 Alaudidae (Larks)
- 696.P216 Artamidae (Woodswallows; currawongs; Australian butcherbirds)
- 696.P218 Atrichornithidae (Scrubbirds)
- 696.P22 Bombycillidae (Waxwings)
- 696.P224 Callaeidae (Wattled crows; huias; saddlebacks)
- 696.P225 Campephagidae (Cuckoo shrikes)
- 696.P228 Catamblyrhynchidae (Plushcapped finches)
- 696.P23 Certhiidae (Creepers)
- 696.P234 Chamaeidae (Wrentits)
- 696.P2344 Chloropseidae (Leafbirds)
- 696.P235 Cinclidae (Dippers)
- 696.P2354 Climacteridae (Australasian treecreepers)

## Chordates. Vertebrates

## Birds

## Systematic divisions. By order and family, A-Z

## Passeriformes -- Continued

- 696.P236 Coerebidae (Honeycreepers)  
 696.P2365 Conopophagidae (Antpipits)  
 696.P2367 Corvidae (Crows; magpies; jays)  
 696.P2368 Cotingidae (Cotingas)  
 (696.P237) Cracticidae  
     see QL696.P216
- 696.P239 Cyclarhidae (Peppershrikes)  
 696.P24 Dendrocolaptidae (Woodhewers)  
 696.P242 Dicaeidae (Flowerpeckers)  
 696.P2427 Dicruridae (Drongos)  
 (696.P243) Drepanididae (Hawaiian honeycreepers)  
     see QL696.P246
- 696.P2435 Dulidae (Palmchats)  
 696.P2438 Emberizidae (Buntings; American sparrows; wood warblers)  
 696.P2439 Eopsaltriidae (Australian robins)  
 696.P244 Estrildidae (Waxbills)  
 696.P245 Eurylaimidae (Broadbills)  
 696.P2455 Formicariidae (Ant thrushes)  
 696.P246 Fringillidae (Finches; Hawaiian honeycreepers)  
 696.P2464 Furnariidae (Ovenbirds)  
 696.P2468 Grallinidae (Magpie larks)  
 696.P247 Hirundinidae (Swallows)  
 696.P2474 Hyposittidae (Caral billed nuthatches)  
 696.P2475 Icteridae (Blackbirds; troupials)  
 Irenidae see QL696.P2585
- 696.P248 Laniidae (Shrikes)  
 696.P2485 Maluridae (Australian wrens)  
 696.P249 Meliphagidae (Honeyeaters)  
 696.P2495 Menuridae (Lyrebirds)  
 696.P25 Mimidae (Thrashers; mockingbirds)  
 696.P252 Motacillidae (Wagtails; pipits)  
 696.P255 Muscicapidae (Old World flycatchers)  
 696.P257 Nectariniidae (Sunbirds)  
 696.P2585 Oriolidae (Old World flycatchers)  
 696.P259 Oxyruncidae (Sharpbills)  
 696.P2595 Pachycephalidae  
 696.P26 Paradisaeidae (Birds of paradise)  
 696.P2612 Paradoxornithidae (Parrotbills; suthoras)  
 696.P2615 Paridae (Titmice; chickadees)  
 (696.P2618) Parulidae  
     see QL696.P2438
- 696.P262 Passeridae  
 696.P2625 Philepittidae (Asities; false sunbirds)  
 696.P2629 Phytotomidae (Plantcutters)  
 696.P263 Pipridae (Manakins)  
 696.P2634 Pittidae (Pittas)  
 696.P264 Ploceidae (Weaverbirds)  
 696.P265 Prionopidae (Weaverbirds)  
 696.P266 Prunellidae (Accentors)  
 696.P267 Ptilonotidae (Silky flycatchers)  
 696.P2675 Ptilonorhynchidae (Bowerbirds)  
 696.P268 Pycnonotidae (Bulbuls)

## Chordates. Vertebrates

## Birds

## Systematic divisions. By order and family, A-Z

## Passeriformes -- Continued

- 696.P27 Regulidae (Kinglets)
- 696.P272 Remizidae
- 696.P273 Rhinocryptidae (Tapaculos)
- 696.P274 Rhipiduridae (Fantails)
- 696.P275 Sittidae (Nuthatches)
- 696.P278 Sturnidae (Starlings)
- 696.P279 Sylviidae (Old World warblers)
- 696.P28 Tersinidae (Swallow tanagers)
- 696.P2816 Thamnophilidae (Typical antbirds)
- 696.P282 Thraupidae (Tanagers)
- 696.P285 Timaliidae (Babblers)
- 696.P287 Troglodytidae (Wrens)
- 696.P288 Turdidae (Thrushes)
- 696.P289 Tyrannidae (Tyrant flycatchers)
- 696.P29 Vangidae (Vangas)
- 696.P294 Vireolaniidae (Shrike vireos)
- 696.P2945 Vireonidae (Vireos)
- 696.P296 Zeledoniidae (Wrenthrushes)
- 696.P298 Zosteropidae (White-eyes)

## Pelecaniformes

- 696.P4 General works
- 696.P42 Anhingidae (Snake-birds)
- 696.P45 Fregatidae (Frigate birds)
- 696.P47 Pelecanidae (Pelicans)
- 696.P474 Phaethontidae (Tropicbirds)
- 696.P4745 Phalacrocoracidae (Cormorants)
- 696.P48 Sulidae (Boobies; gannets)

## Phoenicopteriformes see QL696.C56

## Piciformes

- 696.P5 General works
- 696.P52 Bucconidae (Puffbirds)
- 696.P53 Capitonidae (Barbets)
- 696.P54 Galbulidae (Jacamars)
- 696.P55 Indicatoridae (Honeyguides)
- 696.P56 Picidae (Woodpeckers)
- 696.P57 Ramphastidae (Toucans)

## Podicipediformes

- 696.P58 General works
- 696.P586 Podicipedidae (Grebes)

## Procellariiformes

- 696.P6 General works
- 696.P63 Diomedidae (Albatrosses)
- 696.P64 Hydrobatidae (Storm petrels)
- 696.P66 Pelecanoididae (Diving petrels)
- 696.P665 Procellariidae (Shearwaters; fulmars)
- 696.P7

## Psittaciformes (Parrots)

## Puffinidae see QL696.P665

## Pygopodes see QL696.P586

## Pygopodes (Gaviidae) see QL696.G33

## Rhamphastidae see QL696.P57

## Rheiformes

- 696.R37 General works

## Chordates. Vertebrates

## Birds

Systematic divisions. By order and family, A-Z

Rheiformes -- Continued

696.R4

Rheidae (Rheas)

Scansores

see QL671+

Sphenisciformes

696.S47

General works

696.S473

Spheniscidae (Penguins)

Steganopodes see QL696.P4+

Strigiformes

696.S8

General works

696.S83

Strigidae (Owls)

696.S85

Tytonidae (Barn owls)

Struthioniformes

696.S87

General works

696.S9

Struthionidae (Ostriches)

Tinamiformes

696.T37

General works

696.T4

Tinamidae (Tinamous)

Trochili see QL696.A558

Trogoniformes

696.T67

General works

696.T7

Trogonidae (Trogons)

Upupiformes

696.U6

General works

696.U66

Phoeniculidae (Wood hoopoes)

696.U68

Upupidae (Hoopoes)

696.5

Genetics

Anatomy and morphology

697

General works

697.4

Feathers. Plumage

698

Physiology

698.2

Reproduction

698.25

Mortality

698.26

Effect of roads

698.3

Behavior

Including social life and instinct

Eggs and nests see QL675

Bird banding see QL677.5

698.4

Food

698.5

Song. Vocalization

698.7

Flight

698.8

Navigation

698.85

Orientation

698.9

Migration

698.95

Ecology

699

Miscellany and curiosa

For birds of the Bible see BS664

## Mammals

700

Periodicals, societies, congresses, serial publications

701

Collected works (nonserial)

701.2

Dictionaries and encyclopedias

Communication of information

701.5

General works



## Chordates. Vertebrates

## Mammals

## Communication of information -- Continued

701.6

Information services

701.8

Computer network resources

Including the Internet

702

Mammalogical literature

703

General works, treatises, and textbooks

704

Compendis

705

Pictorial works and atlases

706

Popular works

For popular works on domestic animals see SF41

706.2

Juvenile works

706.4

Study and teaching. Research

706.5.A-Z

Special topics, A-Z

706.5.D38

Data processing

Rare and endangered species

706.8

General works

706.83.A-Z

By region or country, A-Z

707

Extinct mammals

708

Classification. Nomenclature

708.2

Catalogs and collections

708.4

Collection and preservation

708.5

Evolution. Speciation

708.6

Population dynamics

Geographical distribution

For geographical distribution of systematic divisions see QL737.A+

708.7

General works

Physiographic divisions

Aquatic

713

General works

Marine

713.2

General works

By region

For marine mammals of a particular region or country or off the coast of a particular region or country see QL715+

Atlantic Ocean

713.25

General works

713.28

North Atlantic Ocean

713.35

Pacific Ocean

Topographical divisions

North America

715

General works

United States

717

General works

719.A-Z

By region or state, A-Z

Canada

721

General works

721.5.A-Z

By region or province, A-Z

Latin America

721.8

General works

722

Mexico

723

Central America (Table Q3)

724

West Indies (Table Q3)

725

South America (Table Q3)

Europe

## Chordates. Vertebrates

## Mammals

## Geographical distribution

## Topographical divisions

## Europe -- Continued

- 726 General works
- 727 Great Britain
- 728.A-Z Other regions or countries, A-Z
- 729 Asia (Table Q3)
- 731 Africa (Table Q3)
- 732 Indian Ocean islands (Table Q3)

## Australasia

- 732.8 General works
- Australia
  - 733 General works
  - 733.5.A-Z By state, territory, or region, A-Z
  - 734 New Zealand
  - 735 Pacific islands (Table Q3)
  - 736 Arctic regions. Greenland
  - 736.2 Antarctica
  - 736.5 Tropics
- 737.A-Z Systematic divisions. By order and family, A-Z

## Afrosoricida. Tenrecomorpha

- 737.A35 General works
- 737.A352 Chrysochloridae (Golden moles)
- 737.A357 Tenrecidae (Tenrecs)

## Carnivora

- 737.C2 General works
- 737.C214 Ailuridae (Red panda)
- 737.C22 Canidae (Dogs)
  - For domestic dogs see SF421+
- 737.C23 Felidae (Cats)
  - For domestic cats see SF441+
- 737.C235 Herpestidae (Mongooses)
- 737.C24 Hyaenidae (Hyenas)
- 737.C248 Mephitidae (Skunks)
- 737.C25 Mustelidae (Weasels; badgers; otters)
- 737.C26 Procyonidae (Raccoons)
- 737.C27 Ursidae (Bears; giant panda)
- 737.C28 Viverridae (Civets, etc.)

## Cetacea

- 737.C4 General works
- Mysticeti (Baleen whales)
  - 737.C42 General works
  - 737.C423 Balaenidae (Right whales)
  - 737.C424 Balaenopteridae (Rorquals)
  - 737.C425 Eschrichtiidae (Gray whales)
  - 737.C427 Neobalaenidae
- Odontoceti (Toothed whales)
  - 737.C43 General works
  - 737.C432 Delphinidae (Dolphins)
  - Iniidae see QL737.C436
  - Lipotidae see QL737.C436
  - 737.C433 Monodontidae (Narwhal; white whale)
  - 737.C434 Phocoenidae (Porpoises)
  - 737.C435 Physeteridae (Sperm whales)

## Chordates. Vertebrates

## Mammals

## Systematic divisions. By order and family, A-Z

## Cetacea

- 737.C436 Odontoceti (Toothed whales) -- Continued
  - Platanistidae (River dolphins)
  - Pontoporiidae see QL737.C436
  - Stenidae see QL737.C432
- 737.C438 Ziphiidae (Beaked whales)

## Chiroptera

- 737.C5 General works
- 737.C513 Craseonycteridae
- 737.C52 Desmodontidae (Vampires)
- 737.C525 Emballonuridae (Sac-winged bats)
- 737.C53 Furpteridae (Smoky bats)
- 737.C533 Hipposideridae (Old World leaf-nosed bats)
- 737.C535 Megadermatidae (False vampires)
- 737.C54 Molossidae (Free-tailed bats)
- 737.C543 Mormoopidae
- 737.C545 Mystacinidae (New Zealand short-tailed bats)
- 737.C55 Myzopodidae (Old World sucker-footed bats)
- 737.C555 Natalidae (Funnel-eared bats)
- 737.C56 Noctilionidae (Fisherman bats)
- 737.C565 Nycteridae (Slit-faced bats)
- 737.C57 Phyllostomidae (American leaf-nosed bats)
- 737.C575 Pteropodidae (Old World fruit bats)
- 737.C58 Rhinolophidae (Horseshoe bats)
- 737.C585 Rhinopomatidae (Mouse-tailed bats)
- 737.C59 Thyropteridae (Disk-winged bats)
- 737.C595 Vespertilionidae

## Dermoptera

- 737.D35 General works
- 737.D4 Cynocephalidae (Flying lemurs)

## Edentata. Xenarthra

- 737.E2 General works
- 737.E22 Bradypodidae (Three-toed tree sloths)
- 737.E23 Dasypodidae (Armadillos)
- 737.E238 Megalonychidae (Two-toed tree sloths)
- 737.E24 Myrmecophagidae (Anteaters)

## Erinaceomorpha

- 737.E75 General works
- 737.E753 Erinaceidae (Hedgehogs)

## Eulipotyphla see QL737.S7+

## Hyracoidea

- 737.H85 General works
- 737.H9 Procaviidae (Hyraxes)

## Insectivores

- 737.I5 General works
- (737.I52) Chrysochloridae
  - see QL737.A352
- (737.I53) Erinaceidae
  - see QL737.E753
- (737.I54) Macroscelididae (Elephant shrews)
  - see QL737.M242
- (737.I545) Potamogalidae
  - QL737.S73

## Chordates. Vertebrates

## Mammals

## Systematic divisions. By order and family, A-Z

## Insectivores -- Continued

(737.155)

Solenodontidae

see QL737.S74

(737.156)

Soricidae

see QL737.S75

(737.157)

Talpidae

see QL737.S76

(737.158)

Tenrecidae

see QL737.A357

## Lagomorpha

737.L3

General works

737.L32

Leporidae (Rabbits; hares)

737.L33

Ochotonidae (Pikas)

## Macroscelidea

737.M24

General works

737.M242

Macroscelididae (Elephant shrews)

## Marsupialia. Marsupials

737.M3

General works

## Dasyuromorphia

737.M325

General works

737.M33

Dasyuridae (Marsupial mice, Marsupial cats)

737.M335

Myrmecobiidae (Numbat)

737.M336

Thylacinidae (Thylacine)

## Didelphimorphia

737.M337

General works

737.M34

Didelphidae (American opossums)

## Diprotodontia

737.M345

General works

737.M346

Acrobatidae

737.M347

Burramyidae (Pygmy possums)

737.M348

Hypsiprymnodontidae (Rat-kangaroos)

Cf. QL737.M386 Potoroidae

737.M35

Macropodidae (Kangaroos, wallabies)

737.M373

Petauridae

737.M38

Phalangeridae (Phalangers)

737.M384

Phascolarctidae (Koalas)

737.M386

Potoroidae (Bettongs, potoroos, rat-kangaroos)

Cf. QL737.M348 Hypsiprymnodontidae

737.M387

Pseudocheiridae

737.M3875

Tarsipedidae

737.M39

Vombatidae (Wombats)

## Microbiotheria

737.M43

General works

737.M435

Microbiotheriidae

## Notoryctemorphia

737.M44

General works

737.M445

Notoryctidae (Marsupial moles)

## Paucituberculata

737.M46

General works

737.M463

Caenolestidae (Rat opossums)

## Peramelemorphia (Bandicoots)

737.M47

General works

737.M475

Peramelidae

## Chordates. Vertebrates

## Mammals

## Systematic divisions. By order and family, A-Z

## Marsupialia

Peramelemorphia (Bandicoots) -- Continued

(737.M476)

Peroryctidae

see QL737.M475

737.M478

Thylacomyidae (Bilbies)

## Monotremata

737.M7

General works

737.M72

Ornithorhynchidae (Platypus)

737.M73

Tachyglossidae (Echidnas)

## Pholidota

737.P4

General works

737.P5

Manidae (Pangolins)

## Pinnipedia

737.P6

General works

737.P62

Odobenidae (Walrus)

737.P63

Otariidae (Eared seals)

737.P64

Phocidae (Seals)

## Primates

737.P9

General works

737.P915

Atelidae (Howler monkeys; miquis; spider monkeys, woolly monkeys)

(737.P917)

Callimiconidae

see QL737.P925

(737.P92)

Callitrichidae

see QL737.P925

737.P925

Cebidae (Marmosets; tamarins; squirrel monkeys, capuchin monkeys)

737.P93

Cercopithecidae (Old World monkeys)

737.P933

Cheirogaleidae

737.P935

Daubentoniidae (Aye-ayes)

737.P937

Galagonidae (Galagos)

737.P94

Hominidae (Great apes: chimpanzees; gorillas; orangutans)

For humans see GN49+

737.P943

Hylobatidae (Lesser apes: gibbons; siamang)

737.P945

Indridae

737.P95

Lemuridae (Large lemurs)

737.P955

Lorisidae (Lorises; pottos)

737.P957

Nyctipithecidae (Night monkeys)

737.P959

Pitheciidae (Sakis; titis; uakaris)

(737.P96)

Pongidae (Apes)

see QL737.P94+

737.P965

Tarsiidae (Tarsiers)

(737.P968)

Tupaidae (Tree shrews)

see QL737.S254

## Proboscidea

737.P97

General works

737.P98

Elephantidae (Elephants)

## Rodentia

737.R6

General works

737.R62

Abrocomidae

737.R623

Agoutidae (Pacas)

737.R624

Anomaluridae (Scaly-tailed squirrels)

737.R626

Aplodontidae (Mountain beavers)

737.R628

Bathyergidae (African mole rats)

737.R63

Capromyidae (Hutias)

## Chordates. Vertebrates

## Mammals

## Systematic divisions. By order and family, A-Z

## Rodentia -- Continued

- 737.R632 Castoridae (Beavers)  
 737.R634 Caviidae (Cavies)  
 737.R636 Chinchillidae (Chinchillas)  
 (737.R638) Cricetidae (New World rats and mice)  
     see QL737.R666
- 737.R64 Ctenodactylidae (Gundis)  
 737.R642 Ctenomyidae (Tucu-tucos)  
 737.R644 Dasyproctidae (Agoutis; acouchis)  
 737.R646 Dinomyidae (Pacaranas)  
 737.R648 Dipodidae (Jerboas; birch mice; jumping mice)  
 737.R65 Echimyidae (Spiny rats)  
 737.R652 Erethizontidae (New World porcupines)  
 737.R654 Geomyidae (Pocket gophers)  
 737.R656 Gliridae (Dormice)  
 737.R66 Heteromyidae (Pocket mice; kangaroo rats)  
 737.R662 Hydrochaeridae (Capybara)  
 737.R664 Hystricidae (Old World porcupine)  
 737.R666 Muridae (Mice; rats; voles; lemmings; gerbils; hamsters)  
 737.R668 Myocastoridae (Coypu; nutria)  
 737.R67 Octodontidae  
 737.R672 Pedetidae (Springhares)  
 737.R674 Petromuridae  
 (737.R676) Platacanthomyidae  
     see QL737.R666
- (737.R678) Rhizomyidae  
     see QL737.R666
- 737.R68 Sciuridae (Squirrels)  
 737.R682 Seleviniidae (Desert dormice)  
 737.R684 Spalacidae  
     see QL737.R666
- 737.R686 Thryonomyidae (Cane rats)  
 (737.R688) Zapodidae  
     see QL737.R648

## Scandentia

- 737.S25 General works  
 737.S254 Tupaiidae (Tree shrews)

## Sirenia

- 737.S6 General works  
 737.S62 Dugongidae (Dugongs)  
 737.S63 Trichechidae (Manatees)

## Soricomorpha. Eulipotyphla

- 737.S7 General works  
 737.S73 Potamogalidae (Water shrews)  
 737.S74 Solenodontidae (Solenodons)  
 737.S75 Soricidae (Shrews)  
 737.S76 Talpidae (Moles)

## Tubulidentata

- 737.T75 General works  
 737.T8 Orycteropodidae (Aardvarks)

## Ungulata

- 737.U4 General works  
 Artiodactyla (Even-toed ungulates)

## Chordates. Vertebrates

## Mammals

## Systematic divisions. By order and family, A-Z

## Ungulata

## Artiodactyla (Even-toed ungulates) -- Continued

737.U5

General works

737.U52

Antilocapridae (Pronghorn)

737.U53

Bovidae

For domestic cattle, sheep, and goats see SF1+

737.U54

Camelidae (Camels)

737.U55

Cervidae (Deer)

737.U56

Giraffidae

737.U57

Hippopotamidae (Hippopotami)

737.U575

Moschidae (Musk deer)

737.U58

Suidae (Old World pigs)

For domestic swine see SF391+

737.U59

Tayassuidae (Peccaries)

737.U595

Tragulidae (Chevrotains)

## Perissodactyla (Odd-toed ungulates)

737.U6

General works

737.U62

Equidae (Horses)

For domestic horses see SF277+

737.U63

Rhinocerotidae (Rhinoceroses)

737.U64

Tapiridae (Tapirs)

Xenarthra see QL737.E2+

738

Miscellany and curiosa

738.5

Genetics

739

Anatomy and morphology

For anatomy of domestic animals see SF761+

Cf. QL801+ Comparative anatomy

739.15

Cytology

Physiology

For physiology of domestic animals see SF768+

Cf. QP1+ Animal physiology

739.2

General works

739.23

Reproduction

739.25

Age determination

Behavior

739.3

General works

739.5

Migration

739.8

Ecology

## Animal behavior

Class here general works on animal behavior and general works on particular types of animal behavior

For works on the behavior of special groups or individual animals, see QL360+

For comparative psychology and behavior of animals and humans see BF660+

For works on the behavior of special groups of domestic animals or individual domestic animals see SF756.7

750

Periodicals, societies, congresses, serial publications

750.3

Dictionaries and encyclopedias

750.5

History

751

General works, treatises, and textbooks

Cf. QH540+ General and animal ecology

Cf. SF1+ Animal culture

751.5

Juvenile works

751.6

Addresses, essays, lectures

- Animal behavior -- Continued
- 751.65.A-Z Special aspects of the subject as a whole, A-Z
- 751.65.D37 Data processing
- 751.65.M3 Mathematical models
- 751.65.M32 Mathematics
- 751.65.S55 Simulation methods
- 751.65.S73 Statistical methods
- 751.7 Laboratory manuals
- Special topics
- Behavioral endocrinology. Endocrine aspects of animal behavior see QP356.45
- 752 Animal populations
- For population studies of a particular group of animals, see systematic sections
- Cf. QL607.6 Vertebrate population dynamics
- Cf. QL618.3 Fish population dynamics
- Cf. QL677.4 Bird population dynamics
- Periodicity. Seasonal habits
- 753 General works
- 754 Migration. Migratory animals
- Cf. QL496.2 Migration of insects
- Cf. QL639.5 Migration of fishes
- Cf. QL698.9 Migration of birds
- Cf. QL739.3 Migration of mammals
- 755 Hibernation
- Sleep behavior
- 755.3 General works
- 755.5 Nocturnal animals
- Habitations
- 756 General works
- 756.15 Burrowing. Burrowing animals
- 756.2 Territoriality
- Food
- 756.5 General works
- 756.55 Bloodsucking animals
- 756.56 Browsing
- 756.57 Cannibalism
- 756.6 Health behavior. Medicinal use
- 756.7 Drug use
- 756.8 Symbiosis
- 757 Parasitology
- Cf. QL392.A1+ Helminthology
- Cf. QL496.12 Parasitic insects and parasitoids
- Cf. RC119+ Parasitic diseases of man
- Cf. SF810.A3+ Parasitic diseases of animals
- 758 Predation. Predatory animals
- Cf. SF810.5+ Predator control
- 758.5 Aggression. Agonistic behavior
- Cf. QL100.5 Animal attacks
- 758.7 Reconciliation
- 759 Defense mechanisms
- 760 Grooming behavior
- 761 Sexual behavior
- 761.5 Familial behavior. Kin recognition
- 762 Parental behavior
- 762.5 Infanticide
- Developmental behavior
- 763 General works



- Animal behavior
  - Special topics
    - Developmental behavior -- Continued
      - 763.2 Critical periods. Imprinting
      - 763.5 Play behavior
      - 765 Sound production. Vocalization
        - Cf. QL496.5 Insect sounds
    - 767 Color
    - 768 Animal tracks and signs
      - Including droppings
      - Cf. SK282 Tracking
    - 775 Social relations. Animal societies
      - Cf. QL364.5 Coloniality
    - 775.5 Altruistic behavior
    - 776 Communication
    - 780 Eliminative behavior
    - 781 Instinct
    - 781.3 Motivation
    - 782 Navigation
      - Cf. QL698.8 Navigation by birds
    - 782.5 Orientation
    - 783 Swarming
    - Psychology. Intelligence. Learning
      - General works
      - 785.2 Memory
        - Cf. QP406 Physiology
      - 785.24 Number concept
      - 785.25 Consciousness
      - 785.27 Emotions
      - 785.3 Extrasensory perception
      - (785.5) Special animals
        - see QL362+ or SF (Domestic animals)
  - Stories and anecdotes
    - For circus animals see GV1829+
    - For animals in television see PN1992.8.A58
    - For animals in motion pictures see PN1995.9.A5
    - For domesticated animals see SF1+
    - For wild animals as pets see SF459.A+
- 791 General works
- 793 Famous animals
- 795.A-Z Special. By common name of animal, A-Z
  - 795.A35 African wild dog
  - 795.A4 Alligators
  - 795.A6 Antelopes
  - 795.A8 Asses, Wild
  - 795.B2 Badgers
  - 795.B3 Bats
  - 795.B4 Bears
  - 795.B5 Beavers
  - 795.B53 Bees
  - 795.B57 Birds
    - Cf. SF460+ Cage birds
  - 795.B6 Bison
  - Black eagle see QL795.B57
  - 795.B8 Buffaloes
  - 795.B85 Butterflies

## Animal behavior

## Stories and anecdotes

Special. By common name of animal, A-Z -- Continued

Canada goose see QL795.B57

795.C2

Cats, Wild

Cf. SF445.5 Stories about domestic cats

795.C3

Cattle, Wild

Cf. SF197.4 Stories about domestic cattle

795.C5

Chamois

795.C54

Cheetahs

795.C57

Chimpanzees

795.C6

Coyotes

795.C65

Crabs

795.C67

Crocodiles

795.D3

Deer

795.D5

Dingoes

795.D6

Dogs

Cf. SF426.2 Stories about domestic dogs

795.D7

Dolphins

Ducks, Wild see QL795.B57

795.E4

Elephants

795.E94

European wildcat

795.F65

Fireflies

795.F7

Fishes

795.F8

Foxes

795.F85

Frogs

795.G3

Gazelles

795.G5

Gibbons

795.G55

Giraffe

795.G7

Gorillas

795.H3

Hamsters

795.H35

Hares

795.H4

Hedgehogs

795.H6

Hippopotami

795.H65

Hornets

795.H7

Horses, Wild

Cf. SF301 Stories about domestic horses

795.J27

Jackals

795.J3

Jaguars

795.K3

Kangaroos

795.K62

Koalas

795.L5

Leopards

795.L7

Lions

795.L9

Lynxes

795.M3

Marmots

795.M37

Mice

795.M5

Minks

795.M57

Moles

795.M6

Mongoose

795.M7

Monkeys

795.M8

Moose

Mules see SF362

795.M85

Musk-oxen

795.M87

Muskrats

795.O7

Orangutans

795.O8

Otters

## Animal behavior

## Stories and anecdotes

Special. By common name of animal, A-Z -- Continued

- 795.P18 Pandas
- 795.P2 Panthers
- 795.P28 Peccaries
- 795.P43 Peafowl
- Ponies, Wild see QL795.H7
- 795.P6 Porcupines
- 795.P85 Pumas
- Rabbits, Wild see QL795.H35
- 795.R15 Raccoons
- 795.R2 Rats
- 795.R4 Reindeer
- 795.R45 Rhinoceroses
- 795.R5 Ring-tailed phalangers
- 795.S3 Salamanders
- Sea otters see QL795.O8
- 795.S43 Seals
- 795.S46 Sharks
- 795.S47 Shrews
- 795.S55 Skunks
- 795.S6 Sloths
- 795.S65 Snakes
- 795.S7 Squirrels
- 795.S9 Swine
- 795.T47 Thylacine
- 795.T5 Tigers
- 795.T8 Turtles
- 795.W4 Weasels
- 795.W5 Whales
- 795.W6 Wild boars
- Wild dog, African see QL795.A35
- 795.W8 Wolves
- 795.W83 Wombats
- 795.Z42 Zebras

## Morphology

Class here general works on animal form, structure, body size, etc.

For particular animals, see QL363+

- 799 General works, treatises, and textbooks
- 799.3 Juvenile works
- 799.5 Study and teaching. Research

## Anatomy

Here are classified general works on comparative anatomy and special works on the anatomy of individual organs.

For works on the general anatomy or the anatomy of specific organs of special groups of animals, see the preceding systematic divisions or SF Domestic animals

For invertebrate anatomy see QL363

For human anatomy see QM1+

- 801 Periodicals, societies, congresses, serial publications
- 803 Collected works (nonserial)
- 803.3 Dictionaries
- 803.5 Nomenclature, terminology, notation, abbreviations
- 804 Early works through 1800
- 805 General works, treatises, and textbooks
- 806 Pictorial works and atlases

- Anatomy -- Continued
- 806.5 Juvenile works
- 807 Comparative histology  
For special tissues see QM559+
- 808 Addresses, essays, lectures  
Study and teaching. Research
- 810 General works
- 810.5 Problems, exercises, examinations
- 811 Outlines, syllabi  
Laboratory manuals
- 812 General works
- 812.5 Dissection
- 813.A-Z By laboratory animal, A-Z  
For specific organs or parts of the body, see QL821+
- 813.C38 Cats
- 813.D64 Dogs  
Dogfish shark see QL813.F57
- 813.F57 Fishes
- 813.F75 Frogs
- 813.G63 Goats
- 813.G73 Grasshoppers
- 813.H35 Hamsters
- 813.M55 Mice
- 813.M56 Minks  
Perch see QL813.F57
- 813.P54 Pigs. Swine
- 813.R3 Rabbits
- 813.R37 Rats  
Sharks see QL813.F57
- 813.S69 Squids
- Museums. Exhibitions
- 814.A1 General works
- 814.A2-Z By region or country, A-Z  
Subarrange each country by Table Q5
- Skeleton. Osteology  
For histology see QM569
- 821 General works
- 822 Skull
- 823 Catalogs of specimens
- 825 Articulations
- 827 Ligaments
- 831 Muscles  
For histology see QM571
- Vascular system
- 835 Blood vessels
- 838 Heart
- 841 Lymphatics
- Respiratory organs
- 845 General works
- 846 Branchiae (Gills)
- 847 Tracheae in Arthropoda
- 848 Lungs
- 849 Pleura
- 851 Diaphragm
- 852 Respiratory passages
- 853 Larynx

## Anatomy

## Respiratory organs -- Continued

- 854 Trachea. Bronchi
- 855 Air sacs, swimming bladders, etc.

## Digestive organs

- 856 General works
- 857 Mouth
- 858 Teeth
- 861 Pharynx. Esophagus. Tonsils
- 862 Stomach
- 863 Intestines
- 863.5 Peritrophic membranes
- 864 Peritoneum. Mesentery and omentum
- Glands
- 865 Salivary glands
- 866 Pancreas
- 867 Liver
- 868 Ductless glands

Including spleen, thyroid, thymus, suprarenal, pineal, pituitary, carotid, etc.

## Urogenital system

- 871 General works
- Excretory organs
- 872 General works
- 872.5 Nephridia
- 872.7 Wolffian body
- 873 Kidneys
- 873.5 Ducts
- 874 Bladder
- 875 Urethra
- Reproductive organs. Copulatory organs
- 876 General works
- 878 Male
- 881 Female

## Nervous system

For histology see QM575

- 921 Periodicals, societies, congresses, serial publications
- 923 Collected works (nonserial)
- 925 General works, treatises, and textbooks
- 927 Laboratory manuals. Neurological technique
- 931 Neural elements: Cells, fibers, supporting structures, etc.
- Central nervous system. Brain
- 933 General works, treatises, and textbooks
- Special types
- 935 Invertebrate
- 937 Vertebrate
- 938.A-Z Special structures, A-Z
- 938.A35 Afferent pathways
- 938.B73 Brain stem
- 938.C46 Cerebral cortex
- 938.C47 Cerebral ventricles
- 938.D44 Dentate nucleus
- 938.D53 Diencephalon
- 938.D65 Dorsal ventricular ridge
- 938.H56 Hippocampus
- 938.H94 Hypothalamus
- 938.L55 Limbic system

- Anatomy
  - Nervous system
    - Central nervous system. Brain
      - Special structures, A-Z -- Continued
        - 938.M4 Mechanoreceptors
        - 938.M43 Medial geniculate body
        - 938.N45 Neocortex
        - 938.N48 Neural crest
        - 938.O44 Olivary nucleus
        - 938.P7 Prosencephalon
        - 938.R53 Rhinencephalon
        - 938.S6 Spinal cord
        - 938.T45 Thalamus
      - 939 Peripheral nervous system. Sympathetic nervous system
    - 940 Animal weapons for defense and offense
    - Integument. Skin
      - 941 General works
      - 942 Hair. Fur. Bristles. Whiskers. Scales. Nails. Hoofs. Horns
      - 943 Skin glands. Odoriferous glands
    - 944 Mammae
    - Sense organs
      - 945 General works
      - 945.5 Antennae
      - 946 Tongue
      - 947 Nose
      - 948 Ear
      - 949 Eye
    - Topographical and regional anatomy
      - 950.1 General works, treatises, and textbooks
      - 950.2 External form of the body
        - Trunk
          - 950.3 General works
          - 950.39 Buttocks
          - 950.4 Neck
          - 950.5 Head
          - 950.6 Tail
        - Limbs
          - 950.7 General works
          - 950.75 Flippers
          - 950.8 Wings
      - 950.9 Segmental anatomy
      - 950.95 Body cavities
  - Embryology
    - For special organs see QL821+
    - For human embryology see QM601+
    - 951 Periodicals, societies, congresses, serial publications
    - 952 Nomenclature, terminology, notation, abbreviations
    - 953 History
    - Biography
      - 954 Collective
      - 954.2.A-Z Individual, A-Z
    - 955 General works, treatises, and textbooks
      - Including general works on vertebrates or invertebrates
    - 956 Pictorial works and atlases
    - 956.5 Juvenile works
    - 957 Laboratory manuals

## Embryology -- Continued

Individual orders, genera, species, etc.

- 958 Invertebrate
- 959 Vertebrate
- Special topics
  - 961 Experimental embryology
  - 962 Behavioral embryology
  - 963 Chemical embryology
  - 963.5 Cell differentiation
    - Cf. QH607+ Cytology
  - Germ cells
    - 964 General works
    - 965 Oogenesis and ovum
    - 966 Spermatogenesis and spermatozoa
      - For fertilization see QP273
  - Development of the embryo
    - Including twins, multiple birth, etc.
    - 971 General works
    - 971.2 Organizer
    - 973 Allantois. Placenta
    - 975 Amnion. Amniotic fluid
    - 977 Chorion
    - 979 Myogenesis
    - 979.5 Chondrogenesis
    - 981 Metamorphosis
    - 991 Teratology

## Human anatomy

Class here only works that deal with human anatomy

For physical anthropology see GN49+

For comparative anatomy see QL801+

For works that include both human physiology and anatomy see QP1+

- 1 Periodicals, societies, congresses, serial publications
- 5 Collected works (nonserial)
- 7 Dictionaries and encyclopedias
- Nomenclature, terminology, notation, abbreviations see QM81
- 11 History
- Biography
- 16.A2 Collective
- 16.A3-Z Individual, A-Z
- e.g.
- 16.L4 Leonardo da Vinci
- 16.V5 Vesalius
- 17 Directories
- 21 Early works through 1800
- General works, treatises, and textbooks
- 23 1801-1969
- 23.2 1970-
- 24 Comparative anatomy of humans
- Cf. GN281+ Human evolution. Man's place in nature
- 24.5 Anatomy of the child
- Cf. RJ131+ Growth and development of children
- 25 Pictorial works and atlases
- 26 Popular works
- 27 Juvenile works
- 28 Special aspects of the subject as a whole
- Study and teaching. Research
- 30 General works
- 31 Outlines, syllabi
- 32 Problems, exercises, examinations
- 33 Charts, manikins, etc.
- By region or country
- United States
- 33.1 General works
- 33.2.A-Z By region or state, A-Z
- Subarrange each state by Table Q7
- 33.3.A-Z Other regions or countries, A-Z
- Subarrange each country by Table Q7
- Dissection
- 33.4 History
- 33.5 General works, treatises, and textbooks
- 34 Manuals of practical anatomy. Laboratory manuals
- 35 Outline guides
- 39 Laboratory technique
- Laboratories
- 41 General works
- 43.A-Z By region or country, A-Z
- Subarrange each country by Table Q6
- Museums. Exhibitions
- 51.A1 General works
- 51.A2-Z By region or country, A-Z
- Subarrange each country by Table Q5
- 71 Addresses, essays, lectures



- 81 Nomenclature, terminology, notation, abbreviations  
 100 Musculoskeletal system  
 Skeleton. Osteology  
     Cf. RA1059 Forensic osteology
- 101 General works  
 105 Skull  
     Cf. GN71+ Craniology
- 111 Vertebral column  
 113 Ribs and sternum  
 115 Hipbone and pelvis  
 117 Bones of the extremities  
 Articulations. Joints  
 131 General works  
 141 Ligaments  
 142 Articular cartilage  
 Muscles  
 151 General works  
 155 Of the head and neck  
 161 Of the trunk  
 165 Of the limbs  
 170 Tendons  
 Vascular system  
     For works on the blood vessels of a particular organ or system, see the organ or system
- 178 General works  
 181 Heart. Pericardium  
 191 Arteries and veins  
 197 Lymphatics  
 Organs of respiration and voice  
 251 General works  
 255 Larynx  
     Cf. QP306 Larynx physiology
- 257 Trachea. Bronchi  
 261 Lungs. Pleura  
 265 Diaphragm  
 Organs of digestion  
 301 General works  
 306 Mouth  
 311 Teeth  
 325 Salivary glands  
 331 Pharynx. Esophagus. Tonsils  
 341 Stomach  
 345 Intestines  
 351 Liver  
 352 Gallbladder  
 353 Pancreas  
 367 Peritoneum. Mesentery and omentum  
 Glands  
     Cf. QM325 Salivary glands  
     Cf. QM351 Liver  
     Cf. QM353 Pancreas
- 368 General works, treatises, and textbooks  
 371 Ductless glands  
     Including spleen, thyroid, thymus, suprarenal, pineal, pituitary, carotid  
 Urinary and reproductive organs  
 401 General works  
 404 Kidneys

- Urinary and reproductive organs -- Continued
- 408 Ureters  
 411 Bladder  
 413 Urethra  
 416 Generative organs, Male  
 421 Generative organs, Female  
 431 Perineum
- Nervous system  
 For works on the innervation of a particular organ or system, see the organ or system
- 451 General works  
 455 Brain  
 465 Spinal cord  
 469 Meninges  
 471 Peripheral nervous system. Sympathetic nervous system. Cranial nerves, etc.
- Integument
- 481 General works  
 484 External skin  
 485 Bursae mucosae  
 488 Hair. Nails  
 491 Skin glands  
 495 Mammae
- Sense organs
- 501 General works  
 503 Tongue  
 505 Nose  
 507 Ear  
 511 Eye
- Regional anatomy  
 Including surgical and topographical anatomy
- 531 General works, treatises, and textbooks  
 Special regions
- 535 Head and neck. Jaws  
 Trunk
- 540 General works  
 541 Thorax  
 543 Abdomen  
 Limbs
- 548 Upper. Arm and hand  
 549 Lower. Leg and foot
- Human and comparative histology  
 Including microscopic anatomy and ultrastructure  
 For general comparative histology see QL807
- 550 Periodicals, societies, congresses, serial publications  
 550.2 Dictionaries and encyclopedias  
 Biography
- 550.5 Collective  
 550.6.A-Z Individual, A-Z  
 551 General works, treatises, and textbooks  
 Study and teaching. Research
- 552 General works  
 553 Outlines, syllabi  
 554 Problems, exercises, examinations  
 555 Laboratory manuals
- Laboratory technique
- 556 General works  
 556.5.A-Z Special methods, A-Z

- Human and comparative histology
  - Laboratory technique
    - Special methods, A-Z -- Continued
      - Embedding, Plastic see QM556.5.P53
      - 556.5.F5 Fixation
      - 556.5.L9 Lyophilization
      - 556.5.P53 Plastic embedding
    - 557 Pictorial works and atlases
    - Special tissues
      - 559 Pigment
      - 561 Epithelium
        - Cf. QP88.4 Physiology
      - 562 Endothelium
        - Cf. QP88.45 Physiology
      - 563 Connective tissues
      - 565 Adipose tissues
      - 567 Cartilaginous tissues
      - 569 Bony tissues
        - Including bone marrow
      - 569.5 Hematopoietic system
      - 570 Blood vessels
      - 570.5 Heart
      - 570.7 Lymphatics
      - 571 Muscular tissues
      - 575 Nerve tissues
      - 575.5 Blood-brain barrier
      - 576 Endocrine glands
      - Generative organs
        - 577 General works
          - 577.4 Male
          - 577.8 Female
  - Human embryology
    - 601 General works, treatises, and textbooks
    - 602 Pictorial works and atlases
    - 603 Popular works
    - 608 Research. Experimentation
    - 611 Special topics (not A-Z)
    - Teratology
      - Cf. GT6730 Manners and customs
      - 690 Early works through 1800
      - 691 1801-
      - 695.A-Z By region, system, or organ of the body, A-Z
        - Class clinical aspects in R
        - 695.B36 Basicranium
        - 695.B7 Brain
        - 695.C37 Cardiovascular system
        - 695.E95 Extremities
        - 695.F32 Face
        - 695.G45 Generative organs
        - 695.N45 Nervous system
        - 695.P76 Prosencephalon
        - 695.U74 Urinary organs
        - 695.V55 Viscera

## Physiology

For the physiology of special animals or groups of animals see the systematic divisions QL364+

Cf. GN221+ Physiological anthropology

- 1 Periodicals, societies, congresses, serial publications  
 6 Collected works (nonserial)  
 11 Dictionaries and encyclopedias  
 13 Nomenclature, terminology, notation, abbreviations  
 21 History  
 Biography  
 25 Collective  
 26.A-Z Individual, A-Z  
     e.g.  
 26.H3 Harvey  
 26.P35 Pavlov  
 29 Early works through 1800  
 General works, treatises, and textbooks  
 31 1801-1969  
 31.2 1970-  
 33 Comparative physiology  
 33.5 Special aspects of the subject as a whole  
 33.6.A-Z Special topics, A-Z  
 33.6.C48 Chaotic processes  
 33.6.D38 Data processing  
 33.6.M36 Mathematical models  
 Human physiology  
     Including general works on human biology  
 General works, treatises, and advanced textbooks  
 34 Through 1969  
 34.5 1970-  
 35 Handbooks, manuals, etc.  
 36 School textbooks of physiology and hygiene  
 37 Juvenile works  
 38 Popular works  
 Study and teaching. Research  
     Cf. RA440+ Hygiene  
 39 General works  
 40 Problems, exercises, examinations  
 41 Outlines, syllabi  
 Experimental physiology  
 42 Elementary works  
     Including laboratory manuals  
 43 Advanced works  
 44 Laboratory manuals  
 Data processing see QP33.6.D38  
 45 Vivisection  
     Cf. HV4905+ Anti-vivisection  
 47.A-Z By region or country, A-Z  
 Laboratories  
 51 General works  
 53.A-Z By region or country, A-Z  
     Subarrange each country by Table Q6  
 54 Technique  
 55 Instruments and apparatus  
 71 Addresses, essays, lectures  
 77 Miscellany and curiosa  
 Phenomena of animal life (General)

## Phenomena of animal life (General) -- Continued

- 81 General works
- 81.5 Sex differences
- 81.6 Sexual orientation. Homosexuality
- Influence of the environment (General). Animal ecophysiology. Physiological adaptation
  - Cf. GF1+ Human ecology
- 82 General works
- 82.2.A-Z Special topics, A-Z
  - 82.2.A2 Acceleration
  - 82.2.A3 Air pollution
  - 82.2.A36 Allostasis
  - 82.2.A4 Altitude
  - Anoxemia see QP177
  - Biomagnetism see QP82.2.M3
  - 82.2.C5 Climate. Weather
    - Cf. QP82.2.H8 Humidity
    - Cf. QP82.2.T4 Temperature
  - 82.2.C6 Cold
  - 82.2.E4 Electrolytes
  - 82.2.E43 Electromagnetic waves
  - 82.2.G35 Gamma waves
  - 82.2.G7 Gravity
  - 82.2.H4 Heat
  - 82.2.H44 Heavy metals
  - 82.2.H45 Heavy particles
  - 82.2.H8 Humidity
  - Immersion in water see QP82.2.W35
  - 82.2.I45 Infrasonic waves
  - 82.2.I5 Ionized air
  - 82.2.I53 Ionizing radiation
  - 82.2.L3 Lasers
  - 82.2.L5 Light
  - 82.2.M3 Magnetism
  - 82.2.M5 Microwaves
  - 82.2.M54 Millimeter waves
  - 82.2.N6 Noise
  - 82.2.N64 Nonionizing radiation
  - 82.2.P4 Pesticides
  - 82.2.P6 Pollution
  - 82.2.P7 Pressure
  - 82.2.R3 Radiation
  - Radiation, Ionizing see QP82.2.I53
  - Radiation, Nonionizing see QP82.2.N64
  - Radiation, Ultraviolet see QP82.2.U4
  - 82.2.R33 Radio waves
  - 82.2.S8 Stress (Physiology)
  - 82.2.T4 Temperature
    - Cf. QP82.2.C6 Cold
    - Cf. QP82.2.H4 Heat
    - Cf. QP135 Thermoregulation
  - Traffic and wildlife see HE5620.W54
  - 82.2.U37 Ultrasonic waves
  - 82.2.U4 Ultraviolet rays
  - 82.2.U45 Underwater physiology
    - Cf. RC1015 Human underwater physiology
  - 82.2.V5 Vibration

- Phenomena of animal life (General)  
 Influence of the environment (General). Animal ecophysiology. Physiological adaptation  
 Special topics, A-Z -- Continued
- 82.2.W35 Water immersion  
 82.2.W36 Water pollution  
 Weather see QP82.2.C5  
 82.2.W4 Weightlessness  
 Cf. RC1151.W44 Human space physiology
- Developmental physiology  
 Cf. QL971+ Animal fetal development  
 Cf. RG600+ Human fetal development  
 Cf. RJ131+ Children  
 Cf. RJ140+ Adolescents  
 Cf. RJ252 Infants
- 83.8 General works, treatises, and textbooks  
 84 Growth  
 84.4 Puberty  
 84.6 Chronobiology. Periodicity. Biorhythms  
 For special applications, see the field, e.g. T55.3.B56 Industrial safety
- 85 Longevity. Prolongation of life  
 86 Aging. Senescence  
 Cf. QH608 Cell aging  
 Cf. RC580.P7 Progeria  
 Cf. RC952+ Geriatrics
- 87 Death  
 Cf. QH671 Cell death
- Physiology of the tissues (General)  
 Including physical and chemical properties
- 88 General works  
 88.15 Adipose tissues. Brown adipose tissue  
 Cf. QM565 Histology
- 88.2 Bone  
 88.23 Connective tissues  
 88.3 Hair. Fur. Wool  
 88.4 Epithelium  
 Cf. QM561 Histology
- 88.45 Endothelium  
 Cf. QP88.45 Histology  
 Muscle see QP321+  
 Nerve see QP361+
- 88.5 Skin  
 Cf. QP220+ Skin secretions  
 Cf. QP369+ Skin nerves  
 Cf. QP372.9 Galvanic skin response  
 Cf. QP450+ Cutaneous senses
- 88.6 Teeth  
 Cf. QP149 Mastication
- 89 Transplantation  
 Cf. RD120.6+ Surgery
- 90 Rejuvenation  
 90.2 Regeneration  
 90.4 Homeostasis  
 90.5 Body fluids  
 For lymph see QP115  
 For secretions see QP190+  
 For cerebrospinal fluid see QP375

- 90.6 Osmoregulation
- 90.7 Acid-base equilibrium
- Blood
- 91 General works
- 92 Formation. Hematopoiesis. Bone marrow
- Composition and chemistry
- 93 General works
- Coagulation
  - Including fibrin, fibrinogen, thrombin, prothrombin, thromboplastin
- 93.5 General works
- 93.7.A-Z Special factors, A-Z
- 93.7.A58 Antithrombins
- 93.7.P76 Protein C
- 93.7.T45 Thrombomodulin
- 93.7.V65 Von Willebrand factor
- Corpuscles and platelets
- 94 General works
- Leucocytes. White blood cells
  - Cf. QR185.8.L48 Immunology
- 95 General works
- 95.2 Basophils
- 95.3 Eosinophils
  - Cf. QR185.8.E58 Immunology
- 95.4 Granulocytes
  - Cf. QR185.8.G73 Immunology
- 95.5 Lymphocytes
  - Cf. QR185.8.L9 Immunology
- 95.7 Monocytes
- 95.8 Neutrophils
  - Cf. QR185.8.N47 Immunology
- Erythrocytes. Red blood cells
- 96 General works
- 96.5 Hemoglobin
  - Cf. QP99.3.G55 Glycosylated hemoglobin
  - Cf. RC641.7.H35 Hemoglobinopathy
- 96.7 Reticulocytes
- Platelets
  - Cf. QR185.8.P58 Immunology
- 97 General works
- 97.5 Megakaryocytes
- 98 Blood groups
- 99 Plasma and serum
- Special constituents, A-Z
- 99.3.A-Z
- 99.3.A4 Albumins
- 99.3.A45 Alpha macroglobulins
- Antithrombins see QP93.7.A58
- 99.3.A65 Apolipoproteins
  - Including individual apolipoproteins
- 99.3.B5 Blood sugar
- 99.3.C3 Carbon dioxide
- Fibrin and fibrinogen see QP93.5+
- 99.3.G3 Gases
  - Cf. RB45.2 Examination of blood gases
- 99.3.G55 Glycosylated hemoglobin
- 99.3.H3 Haptoglobin
- 99.3.H35 Hematin

## Blood

## Special constituents, A-Z -- Continued

- 99.3.H37 Hematoblasts
- 99.3.H4 Hemocyanin
- 99.3.H45 Hemoerythrin
- Hemoglobin see QP96.5
- 99.3.H53 High density lipoproteins
- 99.3.L5 Lipids
- 99.3.L52 Lipoproteins
- 99.3.L68 Low density lipoproteins
- 99.3.O6 Oocytin
- 99.3.O9 Oxygen
- 99.3.P5 Pigments
- Platelet activating factor see QP752.P62
- 99.3.P7 Proteins
- Prothrombin see QP93.5+
- Thrombin and thromboplastin see QP93.5+
- 99.3.T72 Trace elements
- 99.5.A-Z Other special, A-Z
- 99.5.A3 Agglutination
- 99.5.E5 Electrophoresis
- 99.5.H4 Hemolysis
- 99.5.S4 Sedimentation
- Cardiovascular system. Circulation
- 101 General works, treatises, and textbooks
- 101.2 Periodicals, societies, congresses, serial publications
- 101.3 Collected works (nonserial)
- 101.4 History of discovery and ideas on circulation. Harvey
- (102) General works
  - see QP101
- 103 Juvenile works
- 104 Study and teaching. Research
- Hemodynamics
  - Including pressure, velocity, flow, viscosity, etc.
- 105 General works
- 105.15 Rheology
- 105.2 Measurement of pressure
- 105.4 Measurement of flow
- Systemic system
- 106 General works
- 106.2 Arterial. Aorta
- 106.4 Venous
- 106.6 Microcirculation. Capillaries
- Special systems
- 107 Pulmonary system
- 108 Coronary system
- 108.5.A-Z Other, A-Z
- 108.5.C4 Cerebral circulation
  - Including regional cerebral blood flow
- 108.5.P45 Peripheral circulation
  - Regional cerebral blood flow see QP108.5.C4
- 109 Vasomotor control. Baroreflexes
- 110.A-Z Other special topics, A-Z
- 110.A37 Adrenergic receptors
- 110.A7 Artificial circulation
- 110.B5 Blood volume



- Cardiovascular system. Circulation
- Other special topics, A-Z -- Continued
- 110.C64 Collateral circulation
- 110.G45 Gene expression
- 110.R3 Radiation effects
- 110.V34 Vascular endothelium
- 110.V37 Vascular muscle
- 110.V38 Vascular resistance
- Heart
- (111) General works
  - see QP111.4
- 111.2 Periodicals, societies, congresses, serial publications
- 111.3 Collected works (nonserial)
- 111.4 General works, treatises, and textbooks
- 111.5 Pictorial works and atlases
- 111.6 Juvenile works
- Study and teaching. Research
- 112 General works
  - Research techniques
- 112.4 General works
- 112.5.A-Z Special, A-Z
  - 112.5.A55 Animal models
  - 112.5.C3 Cardiography
  - 112.5.E4 Electrocardiography
  - 112.5.E46 Electrophysiology
  - 112.5.M33 Magnetocardiography
  - 112.5.N83 Nuclear magnetic resonance
  - 112.5.R6 Radiography
- 113 Cardiac dynamics
  - Including beat, rate, output, acceleration, rhythm
- 113.2 Myocardium
  - For specific myocardial characteristics see QP114.A+
- 113.4 Nervous control
- 113.6 Cardiovascular sound
- 114.A-Z Other special topics, A-Z
  - 114.A32 Adaptation
  - 114.A35 Aging
  - 114.A57 Aortic valve
  - 114.A75 Arrest, Cardiac
    - Cardiac arrest see QP114.A75
    - Cardiac membranes see QP114.M46
  - 114.C37 Cardiogenic reflexes
  - 114.C44 Cells
  - 114.C5 Chemical effects
    - Cold see QP114.H94
  - 114.C65 Conduction system
  - 114.D5 Diastole
  - 114.D54 Dilatation
  - 114.E53 Endocardium
  - 114.E9 Exercise effects
    - Heart cells see QP114.C44
    - Heart membranes see QP114.M46
  - 114.H6 Hormone control
  - 114.H94 Hypothermia. Cold
  - 114.I8 Isolation. Survival
  - 114.L94 Lymphatics

## Heart

Other special topics, A-Z -- Continued

- 114.M43 Mechanical properties
- 114.M46 Membranes
- 114.M48 Metabolism
- 114.M65 Molecular biology
- 114.R3 Radiation effects
- 114.R43 Receptors
- 114.R45 Reflexes, Cardiogenic see QP114.C37
- 114.R45 Regeneration
- 115 Lymph and lymphatic system
  - Cf. QP114.L94 Heart lymphatics
- Cardiopulmonary system
  - Periodicals, societies, congresses, serial publications
  - General works, treatises, and textbooks
  - Special topics, A-Z
    - Maximal oxygen uptake
- Respiration. Respiratory organs
  - Cf. QP177 Oxygen and metabolism
  - Cf. RA782 Breathing and exercises
- 121.A1 Periodicals, societies, congresses, serial publications
- 121.A4-Z General works, treatises, and textbooks
- 123 Regulation of respiration
- 123.5 Cough
- 123.8 Sneezing
- 124 Pulmonary gas exchange
- 125 Trachea
- 135 Thermoregulation. Animal heat. Body temperature
  - Cf. QP82.2.T4 Ambient temperature
- 136 Appetite
- Hunger and thirst
  - Cf. RC620+ Deficiency diseases
- 137 General works
- Hunger
  - General works
- 138 Starvation
- 138.5 Thirst
- 139 Thirst
- Nutrition
  - Cf. RA784 Personal hygiene
  - Cf. RG559 Pregnancy
  - Cf. RM214+ Diet therapy
  - Cf. SF94.5+ Animal culture. Feeding and feeds
  - Cf. TX551+ Home economics
- 141.A1 Periodicals, societies, congresses, serial publications
- 141.A2-Z General works, treatises, and textbooks
- Study and teaching. Research
  - General works
  - Research techniques
    - General works
    - Special, A-Z
      - Anthropometric assessment
      - Mathematical models
      - Radioactive tracers
      - Stable isotope tracers
- 143 Nutrient interactions
- 143.4 Other special topics, A-Z
- 143.5.A-Z
- 143.5.A58
- 143.5.M37
- 143.5.R33
- 143.5.S73
- 143.7
- 144.A-Z

## Nutrition

## Other special topics, A-Z -- Continued

- 144.A77 Avocado
- 144.B48 Beverages
- 144.C46 Chocolate. Cocoa
- 144.C58 Citrus fruit
- Cocoa see QP144.C46
- 144.C63 Coconut
- Dairy products see QP144.M54
- 144.E44 Eggs
- 144.F52 Fiber
- 144.F56 Fish. Seafood. Marine products
- 144.F78 Fruit
- 144.F85 Functional foods
- 144.G45 Genetics
- 144.G73 Grain
- Marine products see QP144.F56
- 144.M43 Meat
- 144.M54 Milk. Dairy products
- 144.O44 Oilseeds. Vegetable oils
  - Including individual oilseeds and vegetable oils
- 144.R53 Rice
- Seafood see QP144.F56
- Vegetable oils see QP144.O44
- 144.V44 Vegetables
- Physiology of the digestive tract. Digestion
- 145 General works
- Special organs
  - Mouth. Pharynx. Esophagus
    - Cf. QP88.6 Teeth
    - Cf. QP188.S2 Salivary glands
- 146 General works
- 147 Ingestion. Eating
- 148 Deglutition
- 149 Mastication
- 150 Drinking
- 151 Stomach
  - Cf. QP193 Gastric juice
- 156 Intestines
- 157 Peritoneum. Mesentery and omentum
- 159 Feces
- 165 Absorption
- Metabolism
  - Cf. QH634.5 Cell metabolism
- 171 General works
- 176 Energy metabolism
- 177 Relation of oxygen to metabolism
  - Including oxidation, anoxemia, etc.
- 180 Gastrointestinal motility
- 185 Liver. Gallbladder
  - Cf. QP197 Bile
- 185.3 Bile ducts
- Glands
- 186 General works

## Glands -- Continued

## Endocrinology. Endocrine glands

Cf. QP252+ Reproductive endocrinology

Cf. QP356.4 Neuroendocrinology

Cf. QP356.45 Behavioral endocrinology

Cf. RC648+ Endocrine diseases

- 187.A1 Periodicals, societies, congresses, serial publications  
 187.A4-Z General works, treatises, and textbooks  
 187.3.A-Z Special topics, A-Z  
 187.3.A28 Adaptation  
 187.3.A34 Aging  
 187.3.C44 Cellular control mechanisms  
 187.3.D38 Data processing  
 187.3.E93 Exercise  
 187.3.M36 Mathematical models  
 187.3.M64 Molecular endocrinology  
 187.3.S42 Second messengers  
 187.5 Endocrine genetics  
 187.6 Developmental endocrinology  
 Individual endocrine glands see QP188.A+

## Exocrine glands

- 187.7.A1 Periodicals, societies, congresses, serial publications  
 187.7.A4-Z General works, treatises, and textbooks  
 188.A-Z Special glands, A-Z  
 188.A28 Adrenal cortex  
 188.A3 Adrenal glands  
 188.A33 Adrenal medulla  
 188.A6 Aortic paraganglia  
 188.C35 Chromaffin cells  
 188.H88 Hypothalamic-pituitary-adrenal axis  
 188.H9 Hypothalamo-hypophyseal system  
   Cf. QP188.P58 Pituitary gland  
   Cf. QP356.4 Neuroendocrinology  
   Cf. QP383.7+ Hypothalamus  
 Islands of Langerhans see QP188.P26  
 188.M3 Mammary glands  
   Cf. QP246 Milk  
 188.P26 Pancreas. Islands of Langerhans  
   Cf. QP195 Pancreatic juice  
 188.P3 Parathyroid gland  
 188.P55 Pineal body  
 188.P58 Pituitary gland  
   Cf. QP188.H9 Hypothalamo-hypophyseal system  
 188.S2 Salivary glands  
   Cf. QP191 Saliva  
 188.S26 Salt glands  
 188.S43 Sebaceous glands  
   Cf. QP222 Sebum  
 188.S7 Spleen  
 188.S9 Sweat glands  
   Cf. QP221 Sweat  
 188.T4 Tear glands. Lacrimal organs  
   Cf. QP231 Tears  
 188.T5 Thymus gland  
 188.T54 Thyroid gland

## Secretions

- Secretions -- Continued
- 190 General works, treatises, and textbooks
- Digestive organs and glands secretions
- 190.7 General works, treatises, and textbooks
- 191 Saliva
- 193 Gastric juice  
Cf. QP552.G35 Gastric intrinsic factor
- 195 Pancreatic juice
- 197 Bile  
Cf. QP671.B5 Bile pigments  
Cf. QP752.B54 Bile acids
- 211 Urinary organs secretions. Urine
- 215 Mucous membrane secretions. Mucus
- Skin secretions
- 220 General works, treatises, and textbooks
- 221 Sweat
- 222 Sebum
- 231 Lacrimal organ secretions. Tears
- Other
- 235 Venom
- 246 Milk
- 246.5 Synovial fluid
- Urinary and reproductive organs
- 247 General works  
Urinary organs  
Cf. QP211 Urine
- 248 General works
- 249 Kidneys
- 250 Ureters
- 250.5 Bladder
- 250.8 Urethra
- Reproduction. Physiology of sex  
Cf. HQ31+ Sex instruction  
Cf. QP81.6 Sexual orientation. Homosexuality  
Cf. RA788 Sexual health
- 251 General works, treatises, and textbooks
- 251.5 Juvenile works  
Reproductive endocrinology  
Cf. RG159+ Endocrine gynecology  
Cf. RG558.5 Obstetrical endocrinology  
Cf. RG616 Fetus
- 252 General works
- 252.5 Reproductive immunology  
Cf. RG557 Obstetrics
- Male sex physiology
- 253 General works, treatises, and textbooks
- 255 Testes and semen  
Cf. QL966 Spermatogenesis
- 257 Accessory male organs
- Female sex physiology
- 259 General works, treatises, and textbooks
- 261 Ovary and ovulation  
Cf. QL965 Oogenesis
- 262 Uterus
- 263 Menstruation  
Cf. RJ140+ Physiology of adolescents

- Urinary and reproductive organs
    - Reproduction. Physiology of sex
      - Female sex physiology -- Continued
        - 265 Accessory female organs
        - 267 Hermaphroditism
        - 273 Fertilization. Fecundation
          - For fertility see QP251
        - 275 Ovum implantation
        - 277 Physiology of the embryo
          - Cf. QL951+ Embryology (Zoology)
          - Cf. QM601+ Human embryology
          - Cf. RG610+ Human fetus
        - 278 Sex differentiation
        - 278.5 Sex determination. Genetic sex determination
          - Cf. QH600.5 Sex chromosomes
          - Cf. RG566 Determination of sex during pregnancy
        - 278.53 Environmental sex determination
          - Including temperature-dependent sex determination
        - 279 Sex preselection
        - 280 Viviparity. Ovoviviparity
        - 281 Gestation
          - Cf. RG499.2+ Obstetrics
        - 285 Parturition
          - Cf. RG651+ Labor
  - Musculoskeletal system. Movements
    - Including physiology of exercise
    - Cf. GN231+ Physical anthropology
    - Cf. QP114.E9 Exercise effects on heart
    - Cf. QP187.3.E93 Endocrinology
    - Cf. RC1235+ Physiology of sports
- 301 General works, treatises, and textbooks
- 303 Mechanics. Kinesiology
- 306 Voice and speech. Larynx
  - Cf. BF463.S64 Speech perception
  - Cf. MT821 Voice culture
  - Cf. QM255 Larynx anatomy
  - Cf. RC280.T5 Laryngeal tumors
  - Cf. RC423+ Speech disorders
  - Cf. RF510+ Laryngeal diseases
  - Cf. TK7895.S65 Speech recognition systems
- 309 Work physiology
- 310.A-Z Other special movements, A-Z
  - 310.C5 Ciliary motion
  - 310.C55 Climbing
  - 310.D35 Dancing
  - 310.F5 Deglutition see QP148
  - 310.G34 Flight
    - 310.G34 Galloping
      - Cf. SF289 Horses
  - (310.H36) Hand movements
    - see QP334
  - (310.H43) Head movements
    - see QP325
  - 310.I7 Ingestion see QP147
  - 310.J86 Irritability
  - 310.J86 Jumping

- Musculoskeletal system. Movements  
 Other special movements, A-Z -- Continued  
 Mastication see QP149  
 310.P5 Phototropism  
 310.R45 Rhythmic movements  
 310.R85 Running  
 310.S45 Skipping  
 (310.S65) Spinal movements  
     see QP330  
 310.S77 Stretching  
 310.S95 Swimming  
 310.T9 Typewriting  
 310.W3 Walking  
 310.W7 Writing  
 310.3 Posture  
 310.5 Hypokinesia. Inactivity  
 311 Miscellany and curiosa  
 Muscle  
     Cf. QP113.2 Myocardium  
 321 General works  
 321.5 Smooth muscle  
     Cf. QP110.V37 Vascular muscle  
 322 Sphincters  
 323 Joints  
 By region  
   Head and neck  
     325 General works  
     327 Face  
     330 Spine  
     Upper extremities  
       333 General works  
       334 Hand  
     Lower extremities  
       335 General works  
       336 Foot  
 341 Electrophysiology  
     Cf. QL639.1 Fishes  
     Cf. QP372.9 Galvanic skin response  
     Cf. QP447.5 Electroreceptors  
 345 Magnetic field generation  
 Neurophysiology and neuropsychology  
 351 Periodicals, societies, congresses, serial publications  
 352 Collected works (nonserial)  
 352.5 Dictionaries and encyclopedias  
 353 History  
 Biography  
   353.3 Collective  
   353.4.A-Z Individual, A-Z  
 354 Early works through 1800  
 General works, treatises, and textbooks  
   355 1801-1969  
   355.2 1970-  
 356 Special aspects of the subject as a whole  
 356.15 Comparative neurobiology  
 356.2 Molecular neurobiology  
 356.22 Neurogenetics

## Neurophysiology and neuropsychology -- Continued

- 356.25 Developmental neurophysiology
- 356.3 Neurochemistry. Brain chemistry
- 356.4 Neuroendocrinology
  - Cf. QP188.H9 Hypothalamo-hypophyseal system
- 356.45 Psychoneuroendocrinology. Behavioral endocrinology
- 356.47 Neuroimmunology
- 356.5 Radiation effects on the nervous system
- 357 Laboratory manuals
  - Cf. BF79 Psychology laboratory manuals
- 357.5 Data processing
- 359 Miscellany and curiosa
- Neuropsychology. Physiological psychology. Psychophysiology
  - Cf. BF1+ Psychology
- 360 General works
- 360.5 Cognitive neuroscience
- 360.6 Neuroanthropology
- 360.7 Neuroergonomics
- Nervous system
- 361 General works, treatises, and textbooks
- 361.5 Juvenile works
- 363 Miscellaneous general functions
  - Including excitation, impulse propagation, etc.
- 363.2 Neuroglia
- 363.3 Neural circuitry. Neural networks
- 363.5 Neurogenesis. Developmental neurobiology
- 364 Synapses
- 364.5 Neural transmission
- 364.7 Neurotransmitters. Neurotransmitter receptors
  - Including white matter
- 365 Inhibition (General)
- 365.2 Sensitization
- Peripheral nervous system
- 365.5 General works
- Cerebrospinal nerves
  - 366 Cranial nerves
  - 367 Spinal nerves
- Autonomic nervous system
  - 368 General works
  - 368.5 Sympathetic nervous system
  - 368.7 Parasympathetic nervous system
  - 368.8 Autonomic ganglia. Paraganglia
- Somatic nervous system. Muscle and skin nerves
  - 369 General works
  - 369.5 Neuromuscular transmission. Myoneural junction
- Central nervous system
- 370 General works
- 370.5 Pyramidal tract. Extrapyrarnidal tracts
- 371 Spinal cord
  - Reflexes
    - Cf. QP416 Conditioned response
- 372 General works
- 372.5 Stretch reflex
- 372.6 Startle reflex
- 372.8 Visceral reflex
- 372.9 Galvanic skin response



## Neurophysiology and neuropsychology

## Nervous system

## Central nervous system -- Continued

(374)

Other special topics (not A-Z)

375

Cerebrospinal fluid

375.5

Blood-brain barrier. Choroid plexus

## Brain

Cf. QP108.5.C4 Cerebral circulation

Cf. QP356.3 Neurochemistry

376

General works

376.5

Electroencephalography

376.6

Imaging

## Brain stem

376.8

General works

377

Medulla oblongata

377.5

Pons Varolii

Midbrain. Mesencephalon

378

General works

378.3

Substantia nigra

378.4

Periaqueductal gray matter

379

## Cerebellum

## Cerebrum. Cerebral hemispheres

381

General works

382.A-Z

Special lobes, A-Z

382.F7

Frontal

382.O22

Occipital

382.P3

Parietal

382.T4

Temporal

382.2

Corpus callosum

## Cortex

383

General works

383.12

Neocortex

383.15

Sensorimotor cortex

383.17

Prefrontal cortex

383.2

Limbic system

383.25

Hippocampus

## Basal ganglia

383.3

General works

383.5

Thalamus. Optic thalamus

383.6

Claustrum

Hypothalamus

Cf. QP188.H9 Hypothalamo-hypophyseal system

383.7

General works

383.8

Suprachiasmatic nucleus

383.9

Corpus striatum

384.3

Encephalic photoreceptors

## Localization of functions

385

General works

385.5

Cerebral dominance

388

Brain stimulation techniques

Time relations of central processes, reaction time, etc. see BF317

Association of ideas see BF365+

395

Higher nervous activity

396

Information processing

398

Intellect

Cf. BF431+ Psychology

## Neurophysiology and neuropsychology

## Nervous system

## Central nervous system

## Brain -- Continued

- 399 Language. Speech  
Cf. BF455+ Psychology  
Cf. QP306 Speech
- 401 Emotions. Pleasure and pain  
Cf. BF511 Psychology
- 402 Personality
- 405 Attention and volition
- 406 Memory  
Cf. BD181.7 Philosophy  
Cf. BF370+ Psychology
- 408 Learning  
Cf. BF318 Psychology  
Cf. LB1060+ Education
- 409 Motivation  
Cf. BF501+ Psychology
- 411 Consciousness, subconsciousness, and unconsciousness
- 416 Conditioned response
- 421 Fatigue  
Cf. BF482 Psychology  
Cf. QP321+ Muscle
- 425 Sleep. Hypnotic conditions, etc.  
General works
- 426 Dreaming  
Cf. BF1074+ Parapsychology
- 427 Napping
- 430 Other special topics (not A-Z)
- Senses. Sensation. Sense organs  
Cf. BF231+ Psychology  
Cf. QP137+ Hunger and thirst
- 431 General works, treatises, and textbooks
- 434 Juvenile works
- 435 General special
- Perceptual process
- 441 General works
- 442 Intersensory effects. Multisensory processing  
Multisensory processing see QP442
- 443 Space  
Including orientation  
Cf. QP471+ Equilibrium  
Cf. QP491+ Visual space perception
- 445 Time
- Sensory receptors
- 447 General works  
Chemoreceptors see QP455+
- 447.5 Electroreceptors
- 447.7 Magnetoreceptors  
Nociceptors see QP451.4
- 447.8 Photoreceptors  
For encephalic photoreceptors see QP384.3  
Proprioceptors see QP454  
Thermoreceptors see QP451.6
- Special senses

## Neurophysiology and neuropsychology

## Senses. Sensation. Sense organs

## Special senses -- Continued

## Somesthesia

- 448           General works
- Cutaneous senses
- 450           General works
- 451           Touch
- 451.2         Pressure
- 451.4         Pain
  - Including nociceptors
- 451.6         Temperature
  - Including thermoreceptors
- 454           Proprioception. Sense of movement. Muscular sense
- Chemical senses. Chemoreceptors
- 455           General works
- 456           Taste
- 458           Smell
- Hearing. Physiological acoustics
  - Cf. ML3820+ Physiology of music
  - Cf. QC221+ Sound (Physics)
- 460           Periodicals, societies, congresses, serial publications
- 461           General works, treatises, and textbooks
- 462           Popular works
- 462.2         Juvenile works
- 463           Limits of hearing
- (464)         Speech perception
  - see BF463.S64
- 465           Pitch and tone perception and discrimination
- 467           Rhythm. Melody
- 469           Localization of sound
- 469.3         Bone conduction
- Equilibrium. Labyrinths of the ear
- 471           General works
- 471.2         Cochlea
- Vision. Physiological optics
  - Cf. RE1+ Ophthalmology
- 474           Periodicals, societies, congresses, serial publications
- 475           General works, treatises, and textbooks
- 475.5         Popular works
- 475.7         Juvenile works
- Eyeball
  - 476           General works
  - 476.3         Intraocular pressure
  - 477           Accommodation. Refraction
  - 477.5         Movement
  - 477.8         Cornea
  - 478           Lens
  - 479           Retina
- Light perception and discrimination
  - 481           General works
  - 482           Night vision
  - 482.5         After-images
  - 483           Color vision
  - Binocular vision
    - 487           General works

- Neurophysiology and neuropsychology
  - Senses. Sensation. Sense organs
    - Special senses
      - Vision. Physiological optics
        - Binocular vision -- Continued
        - 487.5 Binocular rivalry
        - Visual space perception
          - 491 General works
          - 492 Form, solidity, size
          - 493 Movement
          - 494 Peripheral vision
          - 495 Optical illusions
- Animal biochemistry
  - For works limited to chemical aspects of biological materials see QD415+
  - Cf. QH345 General biochemistry and plants and animals
  - Cf. QR148 Microbiological chemistry
  - Cf. RB112.5 Clinical biochemistry
  - Cf. RS400+ Pharmaceutical chemistry
  - 501 Periodicals, societies, congresses, serial publications
  - 509 Collected works (nonserial)
  - History
    - 511 General works
    - 511.5.A-Z By region or country, A-Z
  - Biography
    - 511.7 Collective
    - 511.8.A-Z Individual, A-Z
  - 512 Dictionaries and encyclopedias
  - 513 Early works through 1800
  - General works, treatises, and textbooks
    - 514 1801-1969
    - 514.2 1970-
  - 517.A-Z Special topics, A-Z
    - 517.A55 Allosteric regulation
    - 517.B42 Binding sites
    - 517.B44 Bioactive compounds
    - 517.B48 Biochemical templates
    - 517.B49 Bioconjugates
    - 517.B5 Biodegradation
    - 517.B53 Bioelectrochemistry
    - 517.B54 Bioenergetics
    - 517.B56 Bioluminescence see QH641
    - 517.B57 Biomimetics
    - Biosynthesis
    - Biothermodynamics see QP517.T48
    - 517.B58 Biotransformation
    - 517.C45 Cellular signal transduction
      - Including second messengers
    - 517.C49 Charge transfer in biology
    - 517.C54 Chemiluminescence
    - 517.C57 Chirality
    - Computer simulation see QP517.M3
    - 517.C66 Cooperative binding
    - 517.C78 Cryobiochemistry
    - 517.D57 Dissociation
    - 517.F66 Fossil biomolecules
    - 517.H53 High pressure biochemistry

## Animal biochemistry

## Special topics, A-Z -- Continued

- 517.H93 Hydrogen bonding  
 517.L54 Ligand binding  
 517.M3 Mathematical models. Computer simulation  
 517.M65 Molecular dynamics  
 517.M66 Molecular orbitals  
 517.M67 Molecular recognition  
 517.P45 Photobiochemistry  
 517.P49 Physical biochemistry  
 517.P76 Protein binding  
 517.Q34 Quantum biochemistry  
 517.R4 Reaction rates  
 517.R48 Rheology  
 Second messengers see QP517.C45  
 Signal transduction, Cellular see QP517.C45  
 517.S83 Stereochemistry  
 517.S85 Structure-activity relationships  
     Cf. RM301.42 Pharmacology  
 517.S87 Surface chemistry  
 Templates, Biochemical see QP517.B48  
 517.T48 Thermodynamics  
 517.5 Biological chemistry as a profession. Vocational guidance  
 Study and teaching. Research  
 518 General works  
 518.3 Outlines, syllabi  
 518.5 Problems, exercises, examinations  
 519 Laboratory manuals  
 Technique. Analytical biochemistry  
 519.7 General works  
 519.9.A-Z Special methods, A-Z  
 519.9.A35 Affinity chromatography  
 519.9.A36 Affinity electrophoresis  
 519.9.A37 Affinity labeling  
 519.9.A94 Autoradiography  
 519.9.B55 Bioluminescence assay  
 519.9.B84 Buffer solutions  
 519.9.C34 Calorimetry  
 519.9.C36 Capillary electrophoresis  
 519.9.C37 Capillary liquid chromatography  
 519.9.C44 Centrifugation  
 Centrifugation, Density gradient see QP519.9.D45  
 519.9.C47 Chromatography  
 Chromatography, Affinity see QP519.9.A35  
 Chromatography, Countercurrent see QP519.9.C68  
 Chromatography, Gas see QP519.9.G37  
 Chromatography, Gel permeation see QP519.9.G44  
 Chromatography, High performance liquid see QP519.9.H53  
 Chromatography, Ion exchange see QP519.9.I54  
 Chromatography, Liquid see QP519.9.L55  
 Chromatography, Thin layer see QP519.9.T55  
 519.9.C57 Circular dichroism  
 519.9.C68 Countercurrent chromatography  
 519.9.D45 Density gradient centrifugation  
 519.9.E42 Electrochemical analysis  
 519.9.E43 Electrodes, Ion selective

## Animal biochemistry

## Technique. Analytical biochemistry

## Special methods, A-Z -- Continued

- 519.9.E433 Electron paramagnetic resonance spectroscopy  
 519.9.E4333 Electron probe microanalysis  
 519.9.E434 Electrophoresis  
 519.9.E46 Enzymatic analysis  
 519.9.E48 Enzyme-linked immunosorbent assay  
 519.9.F52 Flash photolysis  
 519.9.F55 Flow injection analysis  
 519.9.F56 Fluorescence spectroscopy. Fluorescent probes  
 519.9.F58 Fluorimetry  
 519.9.G37 Gas chromatography  
 519.9.G42 Gel electrophoresis  
 519.9.G44 Gel permeation chromatography  
 519.9.H53 High performance liquid chromatography  
 519.9.I42 Immunoassay  
 519.9.I43 Immunoblotting  
 Immunoblotting, Western see QP519.9.W47  
 Immunoelectrophoresis see QR187.I47  
 519.9.I44 Immunoenzyme technique  
 519.9.I48 Infrared spectroscopy  
 519.9.I54 Ion exchange chromatography  
 519.9.I8 Isoelectric focusing  
 519.9.I84 Isotachopheresis  
 519.9.I87 Isotopes  
 519.9.L37 Laser spectroscopy  
 519.9.L55 Liquid chromatography  
 Liquid chromatography, High performance see QP519.9.H53  
 519.9.L82 Luminescence immunoassay  
 519.9.L84 Luminescence spectroscopy  
 519.9.M3 Mass spectrometry  
 519.9.M64 Molecular probes  
 519.9.N8 Nuclear activation analysis  
 519.9.N83 Nuclear magnetic resonance spectroscopy  
 519.9.P48 Photoaffinity labeling  
 Photolysis, Flash see QP519.9.F52  
 519.9.P68 Positron emission tomography  
 519.9.P84 Pulsed-field gel electrophoresis  
 Radioactivation analysis see QP519.9.N8  
 519.9.R28 Radioactive tracers  
 519.9.R3 Radioimmunoassay  
 519.9.R34 Radioligand assay  
 519.9.R36 Raman spectroscopy  
 519.9.S45 Separation (Technology)  
 519.9.S58 Spectrophotometry  
 519.9.S6 Spectroscopy  
 Spectroscopy, Electron paramagnetic resonance see QP519.9.E433  
 Spectroscopy, Fluorescence see QP519.9.F56  
 Spectroscopy, Laser see QP519.9.L37  
 Spectroscopy, Nuclear magnetic resonance see QP519.9.N83  
 Spectroscopy, Raman see QP519.9.R36  
 Spectroscopy, X-ray see QP519.9.X73  
 519.9.S85 Supercritical fluid extraction. Supercritical fluid chromatography  
 519.9.T55 Thin layer chromatography  
 519.9.T59 Time-resolved spectroscopy

- Animal biochemistry
  - Technique. Analytical biochemistry
    - Special methods, A-Z -- Continued
      - 519.9.T84 Two-dimensional electrophoresis
      - 519.9.U47 Ultracentrifugation
      - 519.9.U48 Ultratrace analysis
      - 519.9.V65 Voltage-sensitive dyes
      - 519.9.W47 Western immunoblotting
      - 519.9.X72 X-ray crystallography
      - 519.9.X73 X-ray spectroscopy
    - 520 Handbooks, tables, formulas, etc.
    - 521 Miscellany and curiosa
    - Special substances
      - 525 Colloids
      - 527 Radicals
      - Xenobiotics
        - 529 General works
        - 529.5 Plant compounds
      - Inorganic substances
        - 531 General works, treatises, and textbooks
        - 532 Metals
        - 533 Minerals
        - 534 Trace elements
          - Cf. TX553.T7 Food value
      - 535.A-Z Elements and their inorganic compounds. By chemical symbol of principal element, A-Z (Table Q1)
    - Organic substances
      - 550 General works, treatises, and textbooks
      - Proteins, amino acids, etc.
        - 551 General works, treatises, and textbooks
        - 551.5 Protein-protein interactions
        - 551.6 Proteolysis in general
          - Including non-enzymatic proteolysis
          - Enzymatic proteolysis see QP609.P78
      - Special proteins (other than amino acids, enzymes, or hormones), A-Z
        - 552.A-Z
        - 552.A27 Actin
        - 552.A32 Actomyosin
        - 552.A43 Albumins
        - 552.A436 Allosteric proteins
        - 552.A439 Alpha fetoproteins
        - 552.A4397 Alpha-synuclein
        - 552.A45 Amyloid
        - 552.A56 Antifreeze proteins
        - Antigens and antibodies see QR186.5+
        - Apolipoproteins see QP99.3.A65
        - 552.A65 Aquaporins
        - 552.A87 ATP-binding cassette transporters
        - 552.A94 Avidin
        - 552.B65 Bone morphogenetic proteins
        - 552.C17 C-reactive protein
        - 552.C22 Calcitonin gene-related peptide
        - 552.C24 Calcium-binding proteins
        - 552.C28 Calmodulin
        - 552.C29 Calreticulin
        - 552.C3 Carnosine
        - 552.C34 Carrier proteins

## Animal biochemistry

## Special substances

## Organic substances

## Proteins, amino acids, etc.

## Special proteins (other than amino acids, enzymes, or hormones), A-Z -- Continued

552.C35	Casein
552.C38	Cbl proteins
552.C42	Cell adhesion molecules
552.C45	Cerebrospinal fluid proteins
552.C48	Chromogranins
552.C56	Clusterin
552.C6	Collagen
552.C62	Collectins
552.C63	Connexins
552.C64	Copper proteins
552.C94	Cytochromes
552.C96	Cytoskeletal proteins
552.D95	Dystrophin
552.E4	Elastin
552.E53	Endorphins
552.E54	Endothelins
552.E55	Enkephalins
552.E59	Epidermal growth factor
552.E95	Extracellular matrix proteins
552.F37	Fatty acid-binding proteins
552.F47	Ferritin
	Fetoproteins, Alpha see QP552.A439
	Fibrinogen see QP93.5+
552.F5	Fibroblast growth factors
552.F52	Fibromodulin
552.F53	Fibronectins
552.F54	Flavoproteins
552.G16	G proteins
552.G25	Galanin
552.G3	Gamma globulins
552.G35	Gastric intrinsic factor
552.G4	Gelatin
552.G45	Glial fibrillary acidic protein
552.G5	Globin
552.G55	Globulins
552.G58	Glutathione
552.G59	Glycoproteins. Glycopeptides
552.G7	Gramicidins
552.G73	Green fluorescent protein
552.G76	Growth factors
552.H3	Haptoglobins
552.H43	Heat shock proteins
	Hemoglobin see QP96.5
552.H46	Hemoproteins
552.H48	Hepatocyte growth factor
552.H5	Histones
552.H9	Hypoglycin
	Immunoglobulins see QR186.7+
552.I54	Insulin-like growth factor-binding proteins
552.I55	Integrins
552.I56	Interphotoreceptor retinoid-binding protein



## Animal biochemistry

## Special substances

## Organic substances

## Proteins, amino acids, etc.

## Special proteins (other than amino acids, enzymes, or hormones), A-Z -- Continued

	Intrinsic factor see QP552.G35
552.I67	Iron proteins
552.I7	Iron-sulfur proteins
552.K4	Keratin
552.K46	Kinesin
552.K5	Kinins
552.L3	Lactalbumin
552.L345	Lactoferrin
552.L35	Lactoglobulin
552.L42	Lectins
552.L48	Lipocortins
552.L5	Lipoproteins
552.M44	Membrane proteins
552.M46	Metalloproteins
552.M47	Metallothionein
552.M54	Milk proteins
552.M64	Molecular chaperones
552.M8	Mucins
552.M85	Muscle proteins
552.M88	Myelin proteins. Myelin basic protein
552.M9	Myohemoglobin
552.M93	Myosin
552.N36	Nerve growth factor
552.N37	Nerve proteins
552.N38	Neuropeptide Y
552.N39	Neuropeptides
552.N4	Neurophysins
552.N43	Neuropilins
552.N46	NF-kappa B (DNA-binding protein)
552.N62	Nonhistone chromosomal proteins
552.N67	Notch proteins
552.N82	Nucleopeptides
	Nucleoproteins see QP625.N87
552.O65	Opioid peptides
552.O77	Osteopontin
552.O94	Ovomucoid
552.P25	p53 protein
552.P39	Paxillin
552.P4	Peptides
552.P45	Peptones
552.P5	Phosphoproteins
	Plasma proteins see QP99.3.P7
552.P56	Platelet-derived growth factor
552.P6	Polypeptides
552.P65	Pregnancy proteins
552.P7	Protamines
	Protectins see QP552.L42
552.P73	Proteoglycans
	Prothrombin see QP93.5+
552.Q55	Quinoproteins
	Receptor-specific proteins see QP552.L42

## Animal biochemistry

## Special substances

## Organic substances

## Proteins, amino acids, etc.

## Special proteins (other than amino acids, enzymes, or hormones), A-Z -- Continued

- 552.S32 Semaphorins
- 552.S35 Seminal proteins
- 552.S37 Septins
- 552.S4 Sericin
- Serum albumin see QP99.3.A4
- 552.S65 Somatomedin
- 552.S74 Steroid-binding proteins
- 552.S9 Substance P
- Sulfur-iron proteins see QP552.I7
- Synuclein, Alpha- see QP552.A4397
- 552.S96 Synucleins
- 552.T33 Tachykinins
- 552.T37 Tenascin
- 552.T43 Thaumatin
- 552.T45 Thioredoxin
- Thrombin see QP93.5+
- Thrombospondins
- 552.T47 Thyroglobulin
- 552.T5 Thyroprotein
- 552.T55 Transcription factors
- 552.T68 Transferrin
- 552.T7 Transforming growth factors
- 552.T72 TRP channels
- 552.T77 Tubulins
- 552.T82 Tuftsin
- 552.T83 Ubiquitin
- 552.U24 Uteroglobin
- 552.U86 Vitamin K-dependent proteins
- 552.V58 Wnt proteins
- 552.W58 Zinc proteins
- 552.Z55
- Amino acids
- 561 General works, treatises, and textbooks
- 562.A-Z Constituents of proteins, A-Z
- 562.A7 Arginine
- 562.A8 Aspartic acid
- 562.B73 Branched chain amino acids
- 562.C9 Cystine
- 562.D53 Diamino amino acids
- 562.G5 Glutamic acid
- 562.G55 Glutamine
- 562.G58 Glycine
- Glycocoll see QP562.G58
- 562.H5 Histidine
- 562.L4 Leucine
- 562.L8 Lysine
- 562.M4 Methionine
- 562.P5 Phenylalanine
- 562.P7 Proline
- 562.S45 Selenomethionine
- 562.T5 Threonine
- 562.T7 Tryptophan

- Animal biochemistry
  - Special substances
    - Organic substances
      - Proteins, amino acids, etc.
        - Amino acids
          - Constituents of proteins, A-Z -- Continued
            - 562.T9 Tyrosine
            - 562.V3 Valine
            - 563.A-Z Other, A-Z
              - 563.A3 Adenosylmethionine
              - 563.A38 Agmatine
              - 563.A48 Aminobutyric acid
              - 563.A5 Aminocapric acid
              - 563.C5 Citrulline
              - 563.D5 Dihydroxyphenylalanine
              - DOPA see QP563.D5
              - 563.D66 Dopamine
              - 563.G32 GABA
              - Gamma-aminobutyric acid see QP563.G32
              - 563.K33 Kainic acid
              - 563.K9 Kynurenine
              - 563.O7 Ornithine
              - 563.T5 Thyroxine
- Hormones
  - General works, treatises, and textbooks
  - Hormone inhibition
  - Hormone receptors
  - Special, A-Z
    - ACTH see QP572.A35
    - 572.A27 Adrenaline
    - 572.A3 Adrenocortical hormones
    - 572.A35 Adrenocorticotrophic hormone
    - 572.A4 Aldosterone
    - 572.A48 Amylin
    - 572.A5 Androgens
    - 572.A52 Androstenedione
    - 572.A54 Angiotensins
      - Including individual angiotensins
    - 572.A82 Atrial natriuretic peptides
    - 572.C3 Calcitonin
    - 572.C33 Calcium regulating hormones
    - 572.C36 Catechol estrogens
    - 572.C47 Chalones
    - 572.C5 Cholecystokinin
    - 572.C53 Chorionic gonadotropins
    - 572.C6 Corticosterone
    - 572.C62 Corticotropin releasing hormone
    - 572.C65 Cortisone
    - 572.E25 Ecdysone
    - 572.E27 Ecdysteroids
    - 572.E8 Estradiol
    - 572.E85 Estrogen
      - Cf. QP572.P48 Phytoestrogens
    - Estrogens, Catechol see QP572.C36
    - 572.F6 Follicle-stimulating hormone
    - 572.G3 Gastrin

## Animal biochemistry

## Special substances

## Organic substances

## Proteins, amino acids, etc.

## Hormones

## Special, A-Z -- Continued

572.G35	Gastrointestinal hormones
572.G45	Ghrelin
572.G5	Glucagon
572.G52	Glucagon-like peptide 1
572.G54	Glucocorticoids
572.G58	Glycoprotein hormones
572.G6	Gonadotropin
	Growth hormone see QP572.S6
572.G75	Growth hormone releasing factor
572.H85	Hydroxyprogesterone
572.H9	Hypothalamic hormones
572.I47	Inhibin
572.I5	Insulin
	Intermedin see QP572.M75
	Lactogenic hormones see QP572.P74
572.L48	Leptin
572.L5	Lipocaic
572.L56	Lipotropin
572.L84	Luteinizing hormone
572.L85	Luteinizing hormone releasing hormone
572.M44	Melatonin
572.M66	Motilin
572.M75	MSH
572.N47	Neurotensin
	Noradrenalin see QP572.N6
572.N6	Norepinephrine
572.O74	Orexins
572.O9	Oxytocin
572.P3	Parathyroid hormone
572.P33	Parathyroid hormone-related protein
572.P4	Peptide hormones
572.P47	Pheromones
572.P48	Phytoestrogens
572.P5	Pituitary hormone releasing factors
572.P52	Pituitary hormones
572.P57	Placental hormones
572.P67	Pregnenolone
572.P7	Progesterone
572.P74	Prolactin
572.P75	Prosecretin
572.P77	Protein hormones
572.R46	Relaxin
572.S34	Secretin
572.S4	Sex hormones
572.S59	Somatostatin
572.S6	Somatotropin
572.S7	Steroid hormones
572.T4	Testosterone
572.T46	Thymic hormones

## Animal biochemistry

## Special substances

## Organic substances

## Proteins, amino acids, etc.

## Hormones

## Special, A-Z -- Continued

572.T5

Thyroid hormones

Including thyroxine, thyronines, triiodothyronine

572.T55

Thyrotropin

572.T56

Thyrotropin releasing factor

572.V28

Vasoactive intestinal peptides

572.V3

Vasopressin

## Enzymes

Cf. QK896 Plant enzymes

601

General works, treatises, and textbooks

601.2

Isoenzymes

601.3

Enzyme kinetics

Enzyme regulation

For works on regulation of individual enzymes or enzyme classes, see QP601.7+

601.4

General works

601.45

Enzyme activation

For works on activation of individual enzymes or enzyme classes, see QP601.7+

601.5

Enzyme inhibition

For works on inhibition of individual enzymes or enzyme classes, see QP601.7+

601.6

Extracellular enzymes

Metalloenzymes

601.7

General works

601.75.A-Z

Special, A-Z

601.75.M35

Manganese enzymes

601.75.M64

Molybdenum enzymes

601.75.Z54

Zinc enzymes

601.8

Thiamin pyrophosphate-dependent enzymes

Oxidoreductases

602

General works, treatises, and textbooks

603.A-Z

Special, A-Z

603.A34

Alcohol dehydrogenase

603.A35

Aldehyde dehydrogenase

603.A37

Alpha-keto acid dehydrogenase

603.A4

Amino acid oxidases

Amino oxidase see QP603.M6

603.A8

Ascorbate oxidase

603.C3

Catalase

Catechol oxidase see QP603.D5

603.C45

Cholesterol hydroxylase

Cytochrome c reductase see QP603.R4

603.C85

Cytochrome oxidase

603.C9

Cytochrome peroxidase

603.D4

Dehydrogenases

603.D5

Diphenol oxidase

603.F47

Ferredoxin-NADP reductase

603.G55

Glucose dehydrogenase

603.G57

Glucosephosphate dehydrogenase

603.H45

Heme oxygenase

603.H55

Histaminase

603.H88

Hydrogenase

603.H9

Hydroxylases

## Animal biochemistry

## Special substances

## Organic substances

## Proteins, amino acids, etc.

## Enzymes

## Oxidoreductases

## Special, A-Z -- Continued

- 603.H92 Hydroxymethylglutaryl coenzyme A reductases  
 603.I54 IMP dehydrogenase  
 603.L33 Lactate dehydrogenase  
 603.L56 Lipoxygenases  
 603.M48 Methylenetetrahydrofolate reductase  
 603.M6 Monamine oxidase  
 603.M65 Monooxygenases  
 603.N58 Nitrogenase  
 603.O8 Oxidases  
 603.O85 Oxygenases  
 603.P4 Peroxidase  
 603.P43 Phenol oxidase  
 603.P74 Proline hydroxylase  
 603.P76 Prostaglandin synthase  
 603.P8 Pyruvate oxidase  
 603.R4 Reduced nicotinamide adenine dinucleotide dehydrogenase  
 603.R52 Ribonucleoside diphosphate reductase  
 603.S9 Succinate dehydrogenase  
 603.S94 Superoxide dismutase  
 603.T78 Tryptophan oxygenase  
 Tyraminase see QP603.M6  
 Tyrosinase see QP603.P43  
 603.U7 Urate oxidase  
 Uricase see QP603.U7
- Transferases
- 605 General works, treatises, and textbooks
- 606.A-Z Special, A-Z
- 606.A33 Acetyltransferases  
 606.A43 Aminotransferases  
 606.A8 Aspartate aminotransferase  
 606.C37 Carnitine acyltransferases  
 606.C45 Choline acetylase  
 606.C73 Creatine kinase  
 606.D46 Deoxyribonucleate nucleotidyltransferases. DNA polymerases  
 606.F7 Fructokinase  
 606.G5 Glucan phosphorylase  
 606.G57 Glucokinase  
 606.G573 Glucuronosyltransferase  
 606.G58 Glutamic-aspartic transaminase  
 606.G59 Glutathione transferase  
 606.G592 Glycogen phosphorylase  
 606.G6 Glycosyltransferases  
 Kinase, Protein see QP606.P76  
 606.M48 Methyltransferases  
 606.P53 Phosphofructokinase  
 606.P55 Phosphotransferases  
 606.P76 Protein kinases  
 606.P78 Protein-tyrosine kinase  
 606.R48 Reverse transcriptase

## Animal biochemistry

## Special substances

## Organic substances

## Proteins, amino acids, etc.

## Enzymes

## Transferases

## Special, A-Z -- Continued

- 606.R49 Rho-associated protein kinases
- 606.R53 Ribonucleate nucleotidyltransferases. RNA polymerases
- 606.S85 Sulfotransferases
- 606.T44 Telomerase
- 606.T73 Transaminases see QP606.A43
- 606.T75 Transglutaminases
- 606.U7 Transketolase
- Uridine diphosphoglucuronosyltransferase

## Hydrolases

## General works, treatises, and textbooks

## Special, A-Z

- 608
- 609.A-Z
- 609.A25 Acetylcholinesterase
- 609.A3 Adenosine triphosphatase
- 609.A38 Alanine aminopeptidase
- 609.A4 Alkaline phosphatase
- 609.A43 Allantoinase
- 609.A438 Amidases
- 609.A44 Aminopeptidases
- 609.A45 Amylase
- 609.A53 Angiotensin converting enzyme
- 609.A7 Arginase
- 609.A77 Arylsulphatases
- 609.A86 Aspartic proteinases
- 609.A88 Astacins
- 609.B46 Beta lactamases
- 609.C26 Calpain
- 609.C3 Carboxypeptidase
- 609.C34 Caseinolytic proteases
- 609.C35 Cathepsin
- 609.C37 Cellulase
- 609.C38 Cellulose 1,4-beta-cellobiosidase
- 609.C39 Chitinase
- 609.C4 Cholinesterase
- 609.C45 Chymosin see QP609.R4
- 609.C6 Chymotrypsin
- 609.C64 Coagulase
- Collagenase
- Converting enzyme, Angiotensin see QP609.A53
- 609.C92 Cyclic nucleotide phosphodiesterases
- 609.C93 Cyclin-dependent kinases
- 609.C94 Cysteine proteinases
- 609.D4 Deoxyribonucleases
- 609.D48 Dextranase
- 609.D52 Diastase see QP609.A45
- 609.D54 Digestive enzymes
- Dipeptidases
- DNA restriction enzymes see QP609.R44
- 609.E38 Elastases
- 609.E4 Emulsin

## Animal biochemistry

## Special substances

## Organic substances

## Proteins, amino acids, etc.

## Enzymes

## Hydrolases

## Special, A-Z -- Continued

609.E44	Endonucleases
609.E7	Erepsin
609.E8	Esterases
609.F7	Fructofuranosidase
	Fructose diphosphatase see QP609.H5
609.G3	Galactosidase
609.G38	Glucose-6-phosphatase
609.G4	Glucosidases
609.G44	Glycoasparaginase
609.G45	Glycosidases
609.G83	Guanosine triphosphatase
609.H5	Hexosediphosphatase
609.H8	Hyaluronidase
	Invertase see QP609.F7
609.K3	Kallikrein
	Lactamases, Beta see QP609.B46
	Lactase see QP609.G3
609.L43	Lecithinase
609.L5	Lipase
609.L55	Lipolytic enzymes
609.L9	Lysozyme
609.N48	Neutral proteinases
609.N78	Nucleases
609.N8	Nucleosidases
609.P3	Papain
609.P35	Paraoxonase
	Pectinase see QP609.P6
609.P4	Pepsin
609.P45	Peptidases (Exopeptidases)
609.P5	Phosphatases
609.P52	Phosphatidate phosphatase
609.P53	Phosphodiesterase
609.P55	Phospholipase
609.P553	Phospholipase A2
609.P555	Phospholipase C
609.P56	Phosphoprotein phosphatases
609.P6	Polygalacturonase
	Proteases see QP609.P78
609.P75	Proteinases (Endopeptidases)
609.P78	Proteolytic enzymes
	Including enzymatic proteolysis
609.P85	Pullulanase
609.R38	Renin
609.R4	Rennin
609.R44	Restriction enzymes, DNA
609.R49	Rho GTPases
609.R53	Ribonucleases
609.S47	Serine proteinases
609.S63	Sodium-potassium ATPase



- Animal biochemistry
  - Special substances
    - Organic substances
      - Proteins, amino acids, etc.
        - Enzymes
          - Hydrolases
            - Special, A-Z -- Continued
              - 609.S93 Subtilisins
              - 609.S95 Sulfatases
              - Thrombin see QP93.5+
              - 609.T7 Trypsin
              - Trypsinogen see QP609.T7
              - 609.U7 Urease
            - Lyases
              - 612 General works, treatises, and textbooks
              - 613.A-Z Special, A-Z
                - 613.A33 Adenylate cyclase
                - 613.A4 Aldolases
                - 613.A75 Aromatic amino acid decarboxylase
                - 613.C37 Carbonate dehydratase see QP613.C37
                - Carbonic anhydrase
                - Carboxylase see QP613.P9
                - 613.E56 Enolase
                - 613.G8 Guanylate cyclase
                - 613.O75 Ornithine decarboxylase
                - 613.P54 Phenylalanine ammonia lyase
                - Phosphopyruvate hydratase see QP613.E56
                - 613.P9 Pyruvate decarboxylase
              - Isomerases
                - 615 General works, treatises, and textbooks
                - 616.A-Z Special, A-Z
                  - 616.D54 DNA helicases
                  - 616.D56 DNA topoisomerases
                  - 616.P46 Peptidylprolyl isomerase
                  - 616.P76 Protein disulfide isomerase
                - Ligases
                  - 618 General works, treatises, and textbooks
                  - 619.A-Z Special, A-Z
                    - 619.A45 Aminoacyl-tRNA synthetases
                    - 619.D53 DNA ligases
                    - 619.G58 Glutamine synthetase
                    - 619.L9 Lysyl ribonucleic acid synthetase
                    - 619.P87 Pyruvate carboxylase
      - Nucleic acids
        - 620 General works, treatises, and textbooks
        - Ribonucleic acids
          - 623 General works, treatises, and textbooks
          - 623.5.A-Z Special, A-Z
            - 623.5.A58 Antisense RNA
            - 623.5.C36 Catalytic RNA
            - 623.5.M47 Messenger RNA
            - 623.5.S63 Small interfering RNA
            - 623.5.T73 Transfer RNA
          - RNA-ligand interactions
            - 623.7 General works
            - 623.8.A-Z Special ligands, A-Z

- Animal biochemistry
    - Special substances
      - Organic substances
        - Nucleic acids
          - Ribonucleic acids
            - RNA-ligand interactions
              - Special ligands, A-Z -- Continued
            - Proteins
          - Deoxyribonucleic acids
            - General works, treatises, and textbooks
            - Special topics, A-Z
              - Antisense DNA
              - Circular DNA
              - DNA fingerprinting
              - DNA microarrays
              - DNA probes
              - Extrachromosomal DNA
              - Methylation
              - Mitochondrial DNA
              - Radiation effects
              - Recombinant DNA
              - Replication
              - Satellite DNA
              - Stability
              - Structure
              - Terminal restriction fragment length polymorphism analysis
              - Z-DNA
            - DNA-ligand interactions
              - General works, treatises, and textbooks
              - Special ligands, A-Z
                - Drugs
                - Proteins
- 623.8.P75
- 624
- 624.5.A-Z
- 624.5.A57
- 624.5.C57
- 624.5.D72
- 624.5.D726
- 624.5.D73
- 624.5.E98
- 624.5.M46
- 624.5.M58
- 624.5.R33
- 624.5.R43
- 624.5.R48
- 624.5.S26
- 624.5.S73
- 624.5.S78
- 624.5.T47
- 624.5.Z33
- 624.74
- 624.75.A-Z
- 624.75.D77
- 624.75.P74
- 625.A-Z
- 625.A25
- 625.A27
- 625.A29
- 625.A3
- 625.A35
- 625.B76
- 625.D56
- 625.I54
- 625.N34
- 625.N8
- 625.N86
- 625.N87
- 625.N88
- 625.N89
- 625.O45
- 625.O47
- 625.P74
- 625.P87
- 625.P96
- 625.Q33
- 625.R53
- 625.T75
- Other related substances, A-Z
  - Adenine nucleotides
  - Adenosine
  - Adenosine diphosphate ribose
  - Adenosine triphosphate
  - Adenylic acid
  - Bromodeoxyuridine
  - Binucleoside polyphosphates
  - Inosine
  - NAD (Coenzyme)
  - Nuclein
  - Nucleohistones
  - Nucleoproteins
  - Nucleosides
  - Nucleotides
  - Oligoadenylates
  - Oligonucleotides
  - Pseudouridine
  - Purine nucleotides
  - Pyridine nucleotides
  - Quadruplex nucleic acids
  - Ribonucleosides
  - Triple-helix-forming oligonucleotides

## Animal biochemistry

## Special substances

## Organic substances -- Continued

## Toxins and antitoxins

Cf. QR180+ Immunology

Cf. RM278 Immunotherapy

631

General works, treatises, and textbooks

632.A-Z

Special, A-Z

632.B3

Bacterial toxins

632.B64

Bombesin

632.B66

Botulinum toxin

632.C87

Cyanobacterial toxins

632.C9

Cytochalasins

632.D54

Digitoxin

632.E4

Endotoxins

632.I57

Insect venoms

632.M37

Marine toxins. Marine venoms

632.M52

Microbial toxins

632.M9

Mycotoxins

632.P47

Pertussis toxin

632.R43

Recombinant toxins

632.S27

Saxitoxin

632.S65

Snake toxins. Snake venoms

632.T46

Tetrodotoxin

632.T75

Trichothecenes

632.V46

Venom

Cf. QP632.I57 Insect venoms

## Pigments

670

General works, treatises, and textbooks

671.A-Z

Special, A-Z

671.B5

Bile pigments

671.B55

Bilirubin

671.C3

Carotenes. Carotin

671.C35

Carotenoids. Carotinoids

671.C45

Chlorophyll

671.C78

Cytochrome b

671.C8

Cytochrome c

671.C83

Cytochrome P-450

671.C85

Cytochromes

671.F5

Flavins

671.F52

Flavonoids

671.H4

Hematoporphyrin

671.H45

Heme

671.I5

Iodopsin

671.L52

Lipofuscins

671.M44

Melanin

671.P6

Porphyrins

671.V5

Visual pigments

671.X3

Xanthopterin

## Carbohydrates

701

General works, treatises, and textbooks

702.A-Z

Special, A-Z

702.A3

Agar

702.A35

Aglucones

702.A4

Amino sugars

702.A48

Amyloses

## Animal biochemistry

## Special substances

## Organic substances

## Carbohydrates

## Special, A-Z -- Continued

- 702.C5 Chitin
  - 702.C55 Chondroitin sulfates
  - 702.C8 Cyclitols
  - 702.D38 Deoxy sugars
  - 702.D4 Deoxyribose
  - 702.F58 Fluorocarbohydrates
  - 702.F68 Fructans
  - 702.F7 Fructose
  - 702.F73 Fructose-2,6-bisphosphate
  - 702.G3 Galactose
  - 702.G48 Glucans
  - 702.G5 Glucides
  - 702.G55 Glucosamine
  - 702.G56 Glucose
  - 702.G57 Glucuronic acid
  - 702.G572 Glucuronides
  - 702.G577 Glycoconjugates
  - 702.G58 Glycogen
  - 702.G59 Glycosides
  - 702.H4 Heparin
  - 702.H45 Hexosamines
  - 702.H8 Hyaluronic acid
  - 702.I45 Imino sugars
  - 702.I5 Inositol see QP772.I5
  - 702.L3 Inulin
  - 702.L3 Lactose
  - 702.M8 Mucopolysaccharides
  - 702.O44 Oligosaccharides
  - 702.P4 Pectins
  - 702.P45 Pentoses
  - 702.P47 Peptidoglycans
  - 702.P6 Polysaccharides
  - 702.S28 Saponins
  - 702.S6 Sorbitol
  - 702.S75 Starch
  - 702.S8 Sucrose
  - 702.S85 Sugars
  - 702.X87 Xylans
  - 702.X89 Xylitol
  - 702.X9 Xylose
- Lipids
- Cf. TP676 Chemical technology of animal fats and oils
  - Cf. TX553.L5 Lipids as a food constituent
  - 751 General works, treatises, and textbooks
  - 752.A-Z Special, A-Z
  - 752.A25 Acetic acid
  - 752.A5 Androstane
  - 752.A7 Arachidonic acid
  - 752.B54 Bile acids
  - 752.C37 Bile pigments see QP671.B5
  - 752.C37 Ceramides

## Animal biochemistry

## Special substances

## Organic substances

## Lipids

## Special, A-Z -- Continued

|          |   |
|----------|---|
| 752.C4   | Cerebrosides                                  |
|          | Cholesterin see QP752.C5                      |
| 752.C5   | Cholesterol                                   |
| 752.C53  | Cholesterol oxides                            |
| 752.C55  | Cholic acid                                   |
| 752.C6   | Corticosteroids                               |
| 752.C7   | Croton oil                                    |
| 752.D54  | Diglycerides                                  |
| 752.D63  | Docosahexaenoc acid                           |
| 752.E53  | Eicosanoids                                   |
| 752.E84  | Essential fatty acids                         |
| 752.F3   | Fats  |
| 752.F35  | Fatty acids                                   |
| 752.F57  | Fish oils                                     |
| 752.G3   | Gangliosides                                  |
| 752.G5   | Glycerides                                    |
|          | Glycerin see QP752.G55                        |
| 752.G55  | Glycerol                                      |
| 752.G56  | Glycolipids                                   |
| 752.G58  | Glycosphingolipids                            |
| 752.I8   | Isobutyric acid                               |
|          | Isopentenoids see QP752.T47                   |
|          | Isoprenoid compounds see QP752.T47            |
| 752.L4   | Lecithin                                      |
| 752.L5   | Linoleic acids                                |
| 752.L515 | Linolenic acids                               |
| 752.L52  | Lipoxins                                      |
| 752.L8   | Lysolecithin                                  |
| 752.L83  | Lysophospholipids acid                        |
| 752.M45  | Membrane lipids                               |
| 752.M9   | Myelin  |
| 752.O42  | Olive oil                                     |
| 752.O44  | Omega-3 fatty acids                           |
| 752.O45  | Omega-6 fatty acids                           |
| 752.O89  | Oxysterols                                    |
| 752.P35  | Palm oil                                      |
|          | Phosphatides see QP752.P53                    |
| 752.P52  | Phosphoinositides                             |
| 752.P53  | Phospholipids                                 |
| 752.P62  | Platelet activating factor                    |
| 752.P65  | Polyketides                                   |
| 752.P69  | Prostacyclin                                  |
|          | Prostaglandins see QP801.P68                  |
| 752.P7   | Protagon                                      |
| 752.P84  | Pulmonary surfactant                          |
| 752.S37  | Saturated fatty acids                         |
| 752.S6   | Sphingolipids                                 |
|          | Steroid hormones see QP572.S7                 |
| 752.S7   | Steroids                                      |
| 752.S75  | Sterols                                       |
| 752.T47  | Terpenes. Isopentenoids. Isoprenoid compounds |

## Animal biochemistry

## Special substances

## Organic substances

## Lipids

## Special, A-Z -- Continued

752.T63

Trans fatty acids

752.T7

Tributylin

752.T74

Triglycerides

752.W3

Waxes

## Vitamins

771

General works, treatises, and textbooks

772.A-Z

Special, A-Z

772.A4

Adermine see QP772.P9

Aminobenzoic acids

Aneurine see QP772.T5

Antihemorrhage vitamin see QP772.V55

Antipernicious anemia vitamin see QP772.C9

Antirickets vitamin see QP772.V53

Antiscurvy vitamin see QP772.A8

Antisterility vitamin see QP772.T6

Antixerophthalmia vitamin see QP772.V5

772.A8

Ascorbic acid. Vitamin C

772.B5

Bioflavonoids. Vitamin P

772.B55

Biotin. Vitamin H

772.C3

Carnitine. Vitamin BT

772.C5

Choline

772.C9

Cyanocobalamine. Vitamin B12

772.E74

Ergocalciferol. Vitamin D2

772.F37

Fat-soluble vitamins

Folacin see QP772.F6

772.F6

Folic acid. Vitamin M

772.I5

Inositol

Lipoic acid see QP772.T54

Niacin see QP772.N55

Niacin amide see QP772.N5

772.N5

Nicotinamide. Vitamin PP

772.N55

Nicotinic acid. Niacin

Nicotinic acid amide see QP772.N5

772.P3

Pangamic acid. Vitamin B15

772.P35

Pantothenic acid. Vitamin B5

Pellagra preventive factor see QP772.N5

Pteroylglutamic acid see QP772.F6

772.P9

Pyridoxine. Vitamin B6

Retinol see QP772.V5

772.R5

Riboflavin. Vitamin B2

772.T5

Thiamine. Vitamin B1

772.T54

Thioctic acid

772.T6

Tocopherol. Vitamin E

772.V5

Vitamin A

772.V52

Vitamin B complex

Vitamin B1 see QP772.T5

Vitamin B2 see QP772.R5

Vitamin B5 see QP772.P35

Vitamin B6 see QP772.P9

Vitamin B12 see QP772.C9

Vitamin B15 see QP772.P3

Animal biochemistry  
   Special substances  
     Organic substances  
       Vitamins  
         Special, A-Z -- Continued  
           Vitamin BT see QP772.C3  
           Vitamin C see QP772.A8  
           Vitamin D  
           Vitamin D2 see QP772.E74  
           Vitamin E see QP772.T6  
           Vitamin G see QP772.R5  
           Vitamin H see QP772.B55  
           Vitamin K  
           Vitamin K2  
           Vitamin M see QP772.F6  
           Vitamin P see QP772.B5  
           Vitamin PP see QP772.N5  
           Water-soluble vitamins  
         Miscellaneous organic substances, A-Z  
           Acetone  
           Acids  
           Acyclic acids  
           Alcohol  
           Aldehydes  
           Alkaloids  
           Allantoin  
           Amines  
           Antibiotics  
           Antimetabolites  
           Antioxidants  
           Antivitamins  
           Aromatic compounds  
           Aspartame  
           Benzene  
           Benzimidazoles  
           Benzodiazepines  
           Benzoyllecgonine  
           Betaines  
           Biogenic amines  
           Biopolymers  
           Caffeine  
           Cannabis  
           Carbolic acid  
           Carbolines  
           Carboxylic acids  
           Catecholamines  
           Cerebrin  
           Chlorophenols  
           Citrates  
           Citric acid  
           Coca see QP801.C68  
           Cocaethylene  
           Cocaine  
           Colchicine  
           Colicins  
           Complex compounds

772.V53

772.V55

772.V56

772.W38

801.A-Z

801.A25

801.A26

801.A265

801.A3

801.A33

801.A34

801.A35

801.A48

801.A63

801.A65

801.A66

801.A67

801.A75

801.A84

801.B5

801.B52

801.B53

801.B54

801.B55

801.B66

801.B69

801.C24

801.C27

801.C3

801.C3115

801.C312

801.C33

801.C4

801.C48

801.C63

801.C65

801.C67

801.C68

801.C69

801.C7

801.C75

## Animal biochemistry

## Special substances

## Organic substances

## Miscellaneous organic substances, A-Z -- Continued

|           |                                       |
|-----------|---------------------------------------|
| 801.C8    | Creatine. Creatinine                  |
| 801.C83   | Crown ethers                          |
| 801.C86   | Cyclic adenylic acid                  |
|           | Cynurenic acid see QP801.K8           |
| 801.E28   | Ecstasy (Drug)                        |
| 801.E325  | EDDP (Pyrrolidine derivative)         |
| 801.F45   | Flavor components                     |
| 801.F5    | Fluorine organic compounds            |
| 801.F67   | Formaldehyde                          |
| 801.F87   | Furylbenzimidazole                    |
| 801.G47   | Germanium organic compounds           |
| 801.G56   | Glucaric acid                         |
| 801.G57   | Glutaric acid                         |
| 801.G63   | Glycolic acid                         |
| (801.G74) | Growth factors<br>see QP552.G76       |
| 801.G8    | Guanidine                             |
| 801.G83   | Guanidines                            |
| 801.H34   | Halogen organic compounds             |
| 801.H45   | Hippuric acid                         |
| 801.H5    | Histamine                             |
| 801.H78   | Hydrazines                            |
| 801.H9    | Hydrocarbons                          |
| 801.I4    | Indican (metabolic product)           |
| 801.I43   | Indocyanine green                     |
| 801.I45   | Indole                                |
|           | Inositol see QP772.I5                 |
| 801.I48   | Insecticides                          |
|           | Interleukins see QR185.8.I56          |
| 801.I55   | Ionophores                            |
| (801.I76) | Isoprenoid compounds<br>see QP752.T47 |
| 801.K4    | Ketones                               |
| 801.K8    | Kynurenic acid                        |
| 801.L3    | Lactic acid                           |
|           | Leucomaines see QP801.P7              |
| 801.L47   | Leukotrienes                          |
| 801.L53   | Lignans                               |
| 801.L97   | Lysergic acid diethylamide            |
|           | Macromolecules see QP801.P64          |
|           | Marijuana see QP801.C27               |
| 801.M37   | Mercapto compounds. Thiols            |
| 801.M39   | Metformin                             |
| 801.M42   | Methoxyhydroxyphenylglycol            |
| 801.M425  | Methylxanthines                       |
| 801.M43   | Metiamide                             |
| 801.M45   | Mevalonic acid                        |
|           | Milk, Human see QP246                 |
| 801.N44   | Neopterin                             |
| 801.N48   | Nicotine                              |
| 801.N55   | Nitrogen organic compounds            |



## Animal biochemistry

## Special substances

## Organic substances

## Miscellaneous organic substances, A-Z -- Continued

## Organo ...

For compounds with names beginning "Organo..." the Cutter number is determined by the element or substance following this prefix

|          |                                    |
|----------|------------------------------------|
| 801.O74  | Orotic acid                        |
| 801.O8   | Oxalic acid                        |
| 801.P28  | Pantethine                         |
| 801.P36  | Penicillin                         |
| 801.P374 | Pentoxifylline                     |
| 801.P38  | Pesticides                         |
| 801.P39  | Phenethylamines                    |
| 801.P4   | Phenols                            |
| 801.P56  | Phosphonic acids                   |
| 801.P63  | Phosphorus organic compounds       |
| 801.P634 | Phytic acid                        |
| 801.P636 | Phytochemicals                     |
| 801.P638 | Polyamines                         |
| 801.P639 | Polycyclic aromatic hydrocarbons   |
| 801.P64  | Polymers. Macromolecules           |
| 801.P643 | Polyurethanes                      |
| 801.P654 | PQQ                                |
| 801.P68  | Prostaglandins                     |
| 801.P686 | Psoralens                          |
| 801.P69  | Pteridines                         |
| 801.P7   | Ptomaines. Leucomaines             |
| 801.P8   | Purines                            |
| 801.P85  | Pyrimidines                        |
| 801.P855 | Pyrrrolizidines                    |
| 801.P86  | Pyruvic acid                       |
| 801.Q5   | Quinones                           |
| 801.R4   | Reductones                         |
| 801.R47  | Retinoids                          |
| 801.S4   | Serotonin                          |
| 801.S44  | Shikimic acid                      |
| 801.S47  | Sialic acid                        |
| 801.S79  | Succinic acid                      |
| 801.S83  | Sugar acids                        |
| 801.S85  | Sulfonic acids                     |
| 801.T3   | Taurine                            |
|          | Tetrahydrocannabinol see QP801.C27 |
| 801.T4   | Thiocyanates                       |
|          | Thiols see QP801.M37               |
| 801.T57  | Tobacco                            |
| 801.T6   | Tolylenediamine                    |
| 801.U24  | Ubiquinones                        |
| 801.U7   | Urea                               |
|          | Vitamins see QP771+                |
| 801.X45  | Xenobiotics                        |

(901-981)

## Experimental pharmacology

The Library of Congress has not classed new material on experimental pharmacology in these numbers since approximately 1981.

For works on the physiological effects of chemical substances on the animal body see QP501+

For works on experimental toxicology see RA1199+

For works on experimental pharmacology in general see RM301.25+

(911-981)

## Individual chemical substances

see QP525+ for the physiological effects of individual chemical substances on the animal body

For works on the physiological effects of drugs on the human body see RM300+

- Microbiology
- 1 Periodicals, societies, congresses, serial publications
- 6 Collected works (nonserial)
- 9 Dictionaries and encyclopedias
- 11 Terminology, notation, abbreviations
- 12 Classification. Nomenclature  
     Cf. QR81 Bacteria  
     Cf. QR394 Viruses
- 13 Evolution
- History
- 21 General works
- 22.A-Z By region or country, A-Z
- Biography
- 30 Collective
- 31.A-Z Individual, A-Z  
     e.g.  
     31.F5 Fleming, Alexander  
     31.K6 Koch, Robert  
     Pasteur, Louis see Q143.P2
- General works, treatises, and textbooks
- 41 Through 1969
- 41.2 1970-
- By discipline
- 46 Medical microbiology  
     Cf. QR67+ Diagnostic technique  
     Cf. QR171.A1+ Microorganisms in the animal body  
     Cf. RC109+ Infections and parasitic diseases
- 46.5 Pharmaceutical microbiology
- 47 Dental microbiology  
     Cf. RK325 Oral sepsis
- 48 Sanitary microbiology  
     Cf. QR105+ Aquatic microbiology  
     Cf. TD1+ Sanitary engineering
- Veterinary microbiology see SF780.2
- 51 Agricultural microbiology  
     Cf. QR111+ Soil microbiology  
     Cf. QR121 Dairy microbiology  
     Cf. QR351 Microorganisms of plant diseases
- Geomicrobiology see QR103
- Industrial microbiology  
     Cf. QR115+ Food microbiology  
     Cf. QR135+ Microbial degradation  
     Cf. QR151+ Microorganisms of fermentation  
     Cf. TP248.27.M53 Microbial biotechnology
- 53 General works, treatises, and textbooks
- 53.5.A-Z By industry or products, etc., A-Z
- 53.5.A44 Alloys
- 53.5.C73 Coal
- 53.5.C76 Cosmetics
- 53.5.P48 Petroleum
- 53.5.R34 Railroads  
     Including railroad tracks, railroad ties, railroad beds, etc.
- 54 Pictorial works and atlases
- 56 Popular works
- 57 Juvenile works
- 58 Addresses, essays, lectures

| QR       | MICROBIOLOGY  | QR |
|----------|---|----|
| 60       | Special aspects of the subject as a whole<br>Study and teaching. Research |    |
| 61       | General works   |    |
| 61.5     | Problems, exercises, examinations   |    |
| 61.7     | Experiments   |    |
| 62       | Outlines, syllabi   |    |
| 63       | Laboratory manuals<br>Laboratories<br>Cf. R108 Medical laboratories       |    |
| 64.A1    | General works   |    |
| 64.A3-Z  | By region or country, A-Z<br>Subarrange each country by Table Q6          |    |
| 64.5     | Culture collections   |    |
| 64.7     | Safety measures   |    |
| 64.8     | Quality control   |    |
|          | Technique   |    |
| 65       | General works<br>Culture technique  |    |
| 66       | General works   |    |
| 66.3     | Culture media   |    |
| 66.4     | Continuous culture  |    |
|          | Diagnostic technique  |    |
| 67       | General works   |    |
| 67.2     | Diagnostic bacteriology<br>Microscope technique<br>Cf. QH201+ Microscopy  |    |
| 68       | General works   |    |
| 68.5.A-Z | Special, A-Z  |    |
| 68.5.E45 | Electron microscopy   |    |
| 69.A-Z   | Special topics, A-Z   |    |
| 69.A56   | Anti-infective agent testing  |    |
| 69.A57   | Antibiotic testing<br>Antiinfective agent testing see QR69.A56            |    |
| 69.A88   | Automation  |    |
| 69.B53   | Bioluminescence assay   |    |
| 69.C3    | Cataphoresis  |    |
| 69.C79   | Cryopreservation  |    |
| 69.D35   | Data processing   |    |
| 69.D48   | Disintegration  |    |
| 69.D54   | DNA probes  |    |
| 69.E43   | Electric impedance measurement  |    |
| 69.E58   | Enzyme-linked immunosorbent assay   |    |
| 69.F56   | Flow cytometry  |    |
| 69.F7    | Freeze-drying. Drying   |    |
| 69.G27   | Gas chromatography  |    |
| 69.H54   | High performance liquid chromatography                                    |    |
| 69.I53   | Inactivation  |    |
| 69.M33   | Mass spectrometry   |    |
| 69.M48   | Microbiological assay   |    |
| 69.M5    | Micrurgy  |    |
| 69.N83   | Nuclear magnetic resonance spectroscopy                                   |    |
| 69.P6    | Population counts   |    |
| 69.S7    | Staining  |    |
| 69.S75   | Sterilization   |    |
| 69.V53   | Viability counts  |    |
| 71       | Laboratory equipment  |    |

| QR      | MICROBIOLOGY  | QR |
|---------|---|----|
| 72      | Statistical methods                                 |    |
| 72.5    | Handbooks, manuals, etc.                            |    |
|         | Microbial genetics see QH434                        |    |
| 73      | Diversity and variation                             |    |
|         | Cf. QR392 Virus variation                           |    |
| 73.4    | Development   |    |
| 73.5    | Differentiation                                     |    |
| 73.6    | Aggregation   |    |
| 73.7    | Cell cycle  |    |
| 73.8    | Microbial populations                               |    |
| 74      | Molecular microbiology                              |    |
| 74.5    | Protista  |    |
|         | Cf. QK564+ Algae                                    |    |
|         | Cf. QK600+ Fungi                                    |    |
|         | Cf. QK635.A1+ Slime molds                           |    |
|         | Cf. QL366+ Protozoa                                 |    |
|         | Bacteria  |    |
| 74.8    | General works                                       |    |
|         | Morphology. Ultrastructure                          |    |
| 75      | General works                                       |    |
| 75.3    | Size  |    |
| 75.5    | Shape   |    |
| 76      | Protoplasm  |    |
| 76.3    | Protoplasts   |    |
| 76.5    | Nuclear materials                                   |    |
| 76.6    | Plasmids  |    |
| 76.7    | Pigments  |    |
| 77      | Cell membranes                                      |    |
|         | Cell walls  |    |
| 77.3    | General works                                       |    |
| 77.35   | Cell surfaces                                       |    |
| 77.5    | Capsules. Slime layers. Glycocalyxes                |    |
| 78      | Flagella  |    |
| 78.5    | Pili  |    |
| 79      | Spores  |    |
| 79.5    | Colonies  |    |
| 80      | Terminology, notation, abbreviations                |    |
| 81      | Classification. Nomenclature                        |    |
| 81.5    | Catalogs and collections                            |    |
| 81.7    | Evolution   |    |
| 82.A-Z  | Systematic divisions. By family or higher taxa, A-Z |    |
|         | Class individual genera under the family.           |    |
|         | For unassigned genera and species see QR82.Z9       |    |
|         | For bacteria of specific diseases see QR201.A+      |    |
| 82.A3   | Achromatiaceae                                      |    |
| 82.A35  | Actinomycetaceae                                    |    |
| 82.A355 | Actinoplanaceae                                     |    |
| 82.A39  | Aegyptianella                                       |    |
|         | Aerobacter cloacae see QR82.E6                      |    |
| 82.A43  | Aeromonadaceae                                      |    |
| 82.A69  | Archaeobacteria                                     |    |
| 82.A9   | Azotobacteraceae                                    |    |
| 82.B3   | Bacillaceae   |    |
| 82.B35  | Bacteroidaceae                                      |    |
| 82.B4   | Beggiatoaceae                                       |    |
| 82.B95  | Brucellaceae  |    |

## Systematic divisions. By family or higher taxa, A-Z -- Continued

|        |  |
|--------|--|
| 82.C35 | Chlamydiaceae                                  |
| 82.C4  | Chlorobiaceae                                  |
| 82.C45 | Chromatiaceae                                  |
| 82.C6  | Corynebacteriaceae                             |
| 82.C88 | Cystobacteraceae                               |
| 82.C9  | Cytophagaceae                                  |
| 82.D37 | Deinococcaceae                                 |
| 82.D4  | Dermatophilaceae                               |
| 82.E6  | Enterobacteriaceae                             |
| 82.F7  | Frankiaceae                                    |
| 82.H35 | Halobacteriovoraceae                           |
| 82.L3  | Lactobacillaceae                               |
| 82.L4  | Leucotrichaceae                                |
| 82.M38 | Methylobacteriaceae                            |
| 82.M4  | Methylomonadaceae                              |
| 82.M45 | Microbacteriaceae                              |
| 82.M5  | Micrococcaceae                                 |
| 82.M55 | Micromonosporaceae                             |
| 82.M8  | Mycobacteriaceae                               |
| 82.M95 | Myxococcaceae                                  |
| 82.N4  | Neisseriaceae                                  |
| 82.N5  | Nitrobacteraceae                               |
| 82.N6  | Nocardiaceae                                   |
| 82.P25 | Pasteurellaceae                                |
| 82.P44 | Pelonemataceae                                 |
| 82.P45 | Peloplocaceae                                  |
| 82.P47 | Peptococcaceae                                 |
| 82.P6  | Polyangiaceae                                  |
| 82.P7  | Propionibacteriaceae                           |
| 82.P78 | Pseudomonadaceae                               |
| 82.R45 | Rhizobiaceae                                   |
| 82.R46 | Rhodospirillaceae                              |
| 82.R47 | Rhodospirillales                               |
| 82.S5  | Simonsiellaceae                                |
| 82.S6  | Spirillaceae                                   |
| 82.S7  | Spirochaetaceae                                |
| 82.S78 | Streptococcaceae                               |
| 82.S8  | Streptomycetaceae                              |
| 82.T7  | Treponemataceae                                |
| 82.V4  | Veillonellaceae                                |
| 82.V53 | Vibrionaceae                                   |
| 82.Z9  | Genera and species as yet unassigned (not A-Z) |
|        | Physiology                                     |
| 84     | General works                                  |
|        | Growth   |
|        | Cf. QR66+ Culture technique                    |
| 84.5   | General works                                  |
| 84.7   | Psychrophilic bacteria                         |
| 84.8   | Thermophilic bacteria                          |
| 86     | Nutrition                                      |
| 86.5   | Reproduction                                   |
|        | Metabolism                                     |
| 88     | General works                                  |
| 88.2   | Autotrophy                                     |
| 88.3   | Biosynthesis                                   |

## Bacteria

## Physiology

## Metabolism -- Continued

- 88.4 Methylotrophy
- 88.5 Photosynthesis
  - Cf. QK882 Plant physiology
- 88.7 Chemoautotrophy
- Respiration
  - 89 General works
  - 89.5 Anaerobic
  - 89.7 Nitrogen fixation
    - Cf. TP245.N8 Chemical engineering
- 90 Enzymes
- 92.A-Z Other substances, A-Z
  - 92.A3 Acetic acid
  - 92.A49 Alkanes
  - 92.A6 Amino acids
  - 92.B3 Bacteriocins
  - 92.B7 Branched chain amino acids
  - 92.C27 Calcium
  - 92.C3 Carbohydrates
  - 92.C33 Carbon dioxide
  - 92.C55 Chlorinated aromatic compounds
  - 92.C57 Citric acid
  - 92.C74 Creatine
  - 92.D45 Deoxyribonucleic acid. DNA
  - DNA see QR92.D45
  - 92.F3 Fatty acids
  - 92.F87 Furans
  - 92.G35 Galactose
  - 92.G5 Glucose
  - 92.H6 Hormones
  - 92.H8 Hydrogen
  - 92.I4 Immunoglobulin-binding proteins
  - 92.I7 Iron
  - 92.L5 Lipids
  - 92.M45 Metals
  - 92.M46 Methane
  - 92.M47 Methyl groups
  - 92.M5 Minerals
  - 92.N5 Nicotinic acid
  - 92.N6 Nitrogen
  - 92.N8 Nucleic acids
  - 92.N82 Nucleotides
  - Oxygen see QR89+
  - 92.P37 Peptides
  - 92.P39 Peptidoglycans
  - 92.P4 Phenols
  - 92.P45 Phosphates
  - 92.P58 Poly-beta-hydroxyalkanoates
  - 92.P59 Polymers
  - 92.P6 Polysaccharides
  - 92.P7 Propionic acid
  - 92.P75 Protein A, Staphylococcal see QR92.S68
  - 92.P87 Proteins
  - Purines

## Bacteria

## Physiology

## Metabolism

## Other substances, A-Z -- Continued

- 92.S3 Salts
- 92.S53 Siderophores
- 92.S68 Staphylococcal protein A
- 92.S7 Steroids
- 92.S79 Sugars
- 92.S8 Sulfur
- 92.V5 Vitamins
- 92.X35 Xanthan gum
- 93 Anhydrobiosis
- 94 Heat production
- 95 Light production
- 96 Motility. Irritability
- 96.5 Interaction. Communication
- 96.8 Adhesion
- Environmental factors
- 97.A1 General works
- 97.A2-Z By factor, A-Z
- 97.A3 Acidity. Alkalinity. Hydrogen-ion concentration  
Alkalinity see QR97.A3
- 97.A57 Anti-infective agents
- 97.A58 Antibiotics
- 97.B32 Bactericides
- 97.C3 Carbon dioxide
- 97.C5 Chemicals
- 97.E5 Electrolytes
- 97.H4 Heat  
Hydrogen-ion concentration see QR97.A3
- 97.L5 Light
- 97.M34 Magnetism
- (97.M6) Moisture  
see QR97.W37
- 97.O8 Oxygen
- 97.P47 Pesticides
- 97.P7 Pressure
- 97.R3 Radiation
- 97.S3 Salinity
- 97.T4 Temperature  
Cf. QR84.7 Psychrophilic bacteria  
Cf. QR84.8 Thermophilic bacteria
- 97.W37 Water. Moisture
- 97.X46 Xenobiotics
- Antibiosis
- Cf. QP801.A63 Biochemistry of antibiotics
- Cf. QR69.A57 Testing
- Cf. QR175 Virulence
- Cf. RM265+ Antibiotic therapy
- Cf. RM666.A+ Pharmacology of individual antibiotic drugs
- Cf. RS431.A6 Pharmaceutical chemistry of antibiotics
- 99 General works
- 99.5 Resistance
- Cyanobacteria
- 99.6 Periodicals. Serials



- Cyanobacteria -- Continued
- 99.62 Congresses
  - 99.63 General works, treatises, and textbooks
  - 99.64 Pictorial works and atlases
  - 99.65 Popular works
  - 99.66 Juvenile works
  - 99.67 Classification. Nomenclature
  - 99.69.A-Z Special topics, A-Z
  - 99.69.B55 Blooms
    - Cyanobacterial blooms see QR99.69.B55
  - 99.7.A-Z Systematic divisions. By family, A-Z
    - 99.7.E57 Entophysalidaceae
    - 99.7.N67 Nostocaceae
    - 99.7.O82 Oscillatoriaceae
    - 99.7.S39 Scytonemataceae
    - 99.7.S85 Stigonemataceae
  - 99.8.A-Z By region or country, A-Z
  - Microbial ecology. Geographical distribution
    - 100 General works, treatises, and textbooks
    - 100.8.A-Z By type of relationship, A-Z
      - 100.8.B55 Biofilms
      - 100.8.C65 Competition
      - 100.8.D46 Denitrification
        - Including denitrifying bacteria
      - 100.8.M37 Mats
      - 100.8.S9 Symbiosis
    - By type of environment
      - 100.9 Extreme environments (General)
      - 101 Air and dust
      - 103 Geomicrobiology. Microbial effect on geological processes
      - Water. Aquatic microbiology
        - 105 General works
        - 105.5 Freshwater
          - Cf. TD384 Water supply analysis
        - Seawater. Marine microbiology
          - 106 General works
          - 106.5 Hydrothermal vents
          - 107 Hot springs. Calderas
      - Soil
        - Including soil fungi
        - Cf. QK604.2.M92 Mycorrhizal fungi
    - 111 General works
    - 113 Root nodules
      - Cf. S652 Soil inoculation
    - Foods
      - Cf. TP371.2+ Preservation in food processing
      - Cf. TX599+ Food preservation in the home
  - 115 General works
  - 116 Eggs
  - 117 Meat
  - 118 Fish. Shellfish
  - 119 Breads. Cereals
  - 121 Dairy products
    - Cf. SF253 Milk analysis
  - 122 Fruit. Vegetables (General)
  - 123 Canned foods

- Microbial ecology
  - By type of environment
    - Foods -- Continued
      - Other food products, A-Z
        - 129.A-Z Beer
        - 129.B44 Corn oil
        - 129.C6 Fruit juice
        - 129.F7 Kimchi
        - 129.K56 Processed foods
        - 129.P76 Refrigerated foods
        - 129.R44 Sugar
        - 129.S8 Tomatoes
        - 129.T65
      - 130 Space microbiology
      - 131.A-Z Other environments, A-Z
        - 131.G58 Glaciers
    - Pathogenic fungi see QR245+
    - Microbial degradation
      - General works
      - Special substances, A-Z
        - 135 Compost
        - 135.5.A-Z Metals
        - 135.5.C65 Pesticides
        - 135.5.M37
        - 135.5.P47
        - 148
    - Microbiological chemistry
      - Cf. QK861+ Plant biochemistry
      - Cf. QP501+ Animal biochemistry
      - Cf. QR88.3 Bacterial biosynthesis
      - Cf. QR467 Biochemistry of viruses
    - Microorganisms of fermentation. Yeasts, etc.
      - Including diseases of wine and beer
        - Cf. TP371.44 Preserving food by fermentation
        - Cf. TP568+ Brewing
- 151 General works
  - (155) Yeasts and yeastlike fungi in the body
    - see QR171
- 160 Microorganisms of cellulose and other plant products
  - Microorganisms in the animal body
    - Cf. QR201.A+ Pathogenic microorganisms
    - Cf. QR245+ Pathogenic fungi
    - Cf. QR301+ Pathogenic fungi
    - Cf. RM666.P835 Probiotics
  - General works, treatises, and textbooks
    - By organ or system, etc., A-Z
      - 171.A1 Alimentary canal
      - 171.A2-Z Blood
      - 171.A43 Eye
      - 171.B5 Feces. Manure
      - 171.E9 Female generative organs
      - 171.F4 Gastrointestinal system
      - 171.F45 Generative organs
      - 171.G29 Generative organs, Female see QR171.F45
      - 171.G4 Germplasm
      - 171.G47 Intestines
      - 171.I6 Lungs
      - 171.L8 Manure see QR171.F4
      - 171.L8 Mouth see QR47
      - 171.N3 Nasopharyngeal system

- Microorganisms in the animal body
  - By organ or system, etc., A-Z -- Continued
  - 171.R85 Rumen
  - 171.S5 Skin
  - 171.S8 Stomach
  - Teeth see QR47
  - 171.U7 Urinary system
- 175 Virulence. Pathogenic action in general
  - Cf. QP631+ Toxins (Animal biochemistry)
- 177 Drug resistance
  - Immunology
    - Cf. QL362.85 Invertebrates
    - Cf. QL638.97 Fishes
    - Cf. QP252.5 Reproductive immunology
    - Cf. QP356.47 Neuroimmunology
    - Cf. RA638 Public health
    - Cf. RC581+ Immunologic diseases
    - Cf. RG557 Obstetrics
    - Cf. RM270+ Immunotherapy
    - Cf. RM370+ Immunopharmacology
    - Cf. SF757.2+ Veterinary immunology
- 180 Periodicals, societies, serial publications
- 180.2 Collected works (nonserial)
- 180.3 Congresses
- 180.4 Dictionaries and encyclopedias
- Biography
  - 180.7 Collective
  - 180.72.A-Z Individual, A-Z
- 181 General works, treatises, and textbooks
- 181.5 Addresses, essays, lectures
- 181.7 Popular works
- 181.8 Juvenile works
- 182 Special aspects of the subject as a whole
- 182.2.A-Z Special topics, A-Z
  - 182.2.A54 Animal models
    - Including specific animal models
  - 182.2.C65 Computer simulation
  - 182.2.E94 Evolution
  - 182.2.I46 Immunoinformatics
  - 182.2.M36 Mathematical models
  - 182.2.N86 Nutritional aspects
  - Space flight see RC1151.I45
  - 182.2.S7 Statistical methods
- Study and teaching. Research
  - 182.5 General works
  - 182.55 Outlines, syllabi
  - 182.6 Problems, exercises, examinations
  - Laboratory methods
    - For specific tests see QR187.A2+
- 183 General works
  - 183.2 Tracers
  - 183.5 Immunotechnology
  - 183.6 Immunochemistry
    - Cf. QR187.I45 Immunocytochemistry
  - 183.8 Immunotaxonomy
  - Immunogenetics

## Immunology

## Immunogenetics -- Continued

- 184 General works
- 184.2 Human immunogenetics
- 184.3 Histocompatibility. H-2 locus
  - 184.3 General works
  - 184.315 Major histocompatibility complex
  - 184.32 HLA antigens
    - 184.34 Minor histocompatibility antigens
      - 184.34 General works
      - 184.35 H-Y antigen
    - 184.4 Ir genes. Ia antigens
  - 184.5 Developmental immunology
  - 184.6 Phylogeny of the immune system
- Types of immunity
  - 185.2 Natural
  - Acquired
    - 185.3 General works
    - 185.33 Maternally acquired immunity
    - 185.35 Immunologic memory
  - 185.4 Humoral
  - 185.5 Cellular
  - 185.6 Molecular aspects. Molecular immunology
- Immune structures
  - 185.7 General works
  - 185.8.A-Z By type, A-Z
    - Antibody-drug conjugates see RS201.A56
    - Antibody-toxin conjugates
    - Antigen presenting cells
    - B cells
    - Biological response modifiers
    - Chemokines
    - Complement
      - Cf. QR187.C6 Complement fixation
    - Cytokines
    - Dendritic cells
    - Eosinophils
      - Cf. QP95.3 Physiology
    - Fc receptors
    - Germinal centers
    - Granulocytes
      - Cf. QP95.4 Physiology
    - Hybridomas
      - Cf. QH451 Cell fusion
    - Immune complexes
    - Interleukins
      - Including interleukin-1, interleukin-2, etc.
    - Killer cells
    - Langerhans cells
    - Leucocytes
      - Cf. QP95+ Physiology
    - Leukolysins
    - Lymphocytes
    - Lymphokines
    - Macrophage migration inhibitory factor
    - Macrophages

## Immunology

## Immune structures

## By type, A-Z -- Continued

- 185.8.M35 Mast cells
- 185.8.M36 Mathematical models
- 185.8.N47 Neutrophils
- 185.8.O7 Opsonin
  - Cf. QR187.P4 Phagocytosis
- 185.8.P45 Phagocytes
  - Cf. QR187.P4 Phagocytosis
- 185.8.P58 Platelets
  - Cf. QP97+ Physiology
- 185.8.S65 Spleen
- 185.8.S96 Suppressor cells
- 185.8.T2 T cells
- 185.8.T24 Th cells
- 185.8.T48 Thrombocytes see QR185.8.P58
- 185.8.T67 Thymus
- 185.8.T67 Transfer factor
  - Cf. RM282.T7 Therapeutic use
- 185.8.T7 Trophoblast
- 185.8.T84 Tumor necrosis factor

## By organ or system, etc., A-Z

- 185.9.A-Z Gastrointestinal system
- 185.9.G37 Liver
- 185.9.L58 Mucous membrane
- 185.9.M83 Immune recognition
- 185.95 Immune response

Class here works on the mechanism of immune response in humans or laboratory animals

For works on the immunology of specific animals or groups of animals, other than laboratory animals, see the systematic divisions in QL. For works on the immune response to particular diseases or parasites, see the disease or parasite in R or SF

- 186 General works
- 186.3 Idiotypic networks
- Antigens
  - 186.5 General works
  - 186.6.A-Z By type, A-Z
    - 186.6.B33 Bacterial antigens
    - Blood group antigens see QP98
    - 186.6.C37 Carbohydrates
    - 186.6.C42 CD antigens
      - Including CD23 antigen, CD26 antigen, etc.
    - 186.6.C44 Cell surface antigens
    - 186.6.F85 Fungal antigens
    - 186.6.G73 Granulocyte antigens
    - H-Y antigen see QR184.35
    - 186.6.H3 Haptens
    - 186.6.H42 Heat shock proteins
    - Histocompatibility antigens see QR184.3+
    - HLA antigens see QR184.32
    - 186.6.L94 Lysozyme
    - 186.6.P38 Parasite antigens
    - 186.6.P76 Proteins
    - 186.6.S64 Spermatozoa
    - 186.6.S94 Superantigens
    - 186.6.S95 Synthetic antigens

## Immunology

## Antigens

## By type, A-Z -- Continued

- 186.6.T48 Thy-1 antigen
- 186.6.T57 Tissue-specific antigens
- 186.6.T6 Toxins
- 186.6.T65 Toxoids
- Tumor antigens see QR188.6
- 186.6.V57 Viral antigens

## Antibodies. Immunoglobulins

- 186.7 General works
- 186.8.A-Z By type, A-Z
  - 186.8.A2 IgA. Immunoglobulin A
  - 186.8.D2 IgD. Immunoglobulin D
  - 186.8.E2 IgE. Immunoglobulin E
  - 186.8.G2 IgG. Immunoglobulin G
  - 186.8.M2 IgM. Immunoglobulin M

## Autoantibodies

- 186.82 General works
- 186.83.A-Z By type, A-Z
  - 186.83.P48 Phospholipid antibodies
  - 186.83.R48 Rheumatoid factor
- 186.85 Monoclonal antibodies
  - Cf. RM282.M65 Therapeutic use
- 186.87 Recombinant antibodies

186.9

## Specificity

## Antigen-antibody reactions

- Class tests with type of reaction
- General works, treatises, and textbooks
- 187.A1 By type, A-Z
  - 187.A2-Z
  - 187.A3 Agglutination
  - 187.A8 Autolysis
  - 187.B3 Bacteriolysis
  - 187.C48 Chemiluminescence immunoassay
  - 187.C6 Complement fixation
  - 187.C65 Conglutination
  - 187.D3 Danyasz phenomenon
  - 187.F58 Fluorescent antigen technique
  - 187.H38 Hemagglutination tests
  - 187.H4 Hemolysis
  - 187.H45 Hemolytic plaque technique
  - 187.H57 Histocompatibility testing
  - 187.I44 Immunoabsorption
  - 187.I45 Immunocytochemistry
  - 187.I46 Immunodiffusion
  - 187.I47 Immunoelectrophoresis
  - 187.I48 Immunofluorescence
  - 187.I482 Immunogold labeling
  - 187.I486 Immunophenotyping
  - 187.L47 Leucocyte adherence inhibition test
  - 187.P4 Phagocytosis
  - 187.P7 Precipitation
  - 187.S4 Sedimentation
- 187.3 Adjuvants
- 187.4 Chemotaxis
- 187.5 Interferons

- 188 Immunology -- Continued
  - Hypersensitivity. Allergy
    - Cf. RC583+ Diseases
- 188.3 Autoimmunity
  - For autoantibodies see QR186.82+
  - Cf. RC600 Autoimmune diseases
- 188.35 Immunodeficiency
  - Cf. RC606+ Medicine
  - Cf. RJ387.D42 Pediatrics
- 188.4 Tolerance
- Immunosuppression
  - General works
  - Virus-induced immunosuppression
- 188.45
- 188.46
- 188.5 Radiation immunology
- 188.6 Tumor immunology
  - Cf. RC268.3 Immunological aspects
- 188.8 Transplantation immunology
  - Cf. QP89 Physiology of the tissues
  - Cf. RD120.6+ Surgery
- Vaccines
  - Cf. RA638 Vaccination in public health
  - Cf. RM281 Vaccinotherapy
- 189 General works, treatises, and textbooks
- 189.2 Synthetic vaccines
- 189.5.A-Z By disease or type, A-Z
  - AIDS (Disease)
  - Anti-idiotypic
  - Bacterial diseases
  - BGC vaccine see QR189.5.T72
  - Chickenpox
  - DNA vaccines
  - Encephalitis
  - Enterobacterial vaccines
  - Hepatitis
  - Herpesvirus disease
  - Influenza
  - Malaria
  - Measles
  - Newcastle disease
  - Papillomavirus
  - Pertussis
  - Pleuropneumonia
  - Pneumococcal infections
  - Poliomyelitis
  - Protozoan diseases
  - Rabies
  - Rubella
  - Sexually transmitted diseases
  - Smallpox
  - Tuberculosis
    - General works
    - BCG vaccine
  - Typhoid
  - Virus diseases
- 201.A-Z Pathogenic microorganisms. By disease, A-Z
- 201.A16 Acinetobacter infections

## Pathogenic microorganisms. By disease, A-Z -- Continued

|           |  |
|-----------|--|
| 201.A2    | Actinomycosis                                    |
| 201.A27   | Adenovirus diseases                              |
| 201.A3    | Adiaspiromycosis                                 |
| 201.A35   | African swine fever                              |
| 201.A37   | AIDS (Disease). HIV infections                   |
| 201.A55   | Amebiasis  |
| 201.A57   | Anaerobic infections                             |
| 201.A6    | Anthrax  |
| 201.A72   | Arbovirus infections                             |
| 201.A74   | Arenavirus diseases                              |
| 201.A85   | Aspergillosis                                    |
| 201.B318  | Babesiosis                                       |
| 201.B32   | Bacteremia                                       |
| 201.B34   | Bacterial diseases                               |
| 201.B37   | Bartonella infections                            |
| 201.B55   | Blastomycosis                                    |
| 201.B66   | Borna disease                                    |
|           | Borreliosis see QR201.R45                        |
| 201.B7    | Botulism   |
| 201.B74   | Bovine spongiform encephalopathy                 |
| 201.B8    | Brucellosis. Undulant fever                      |
| 201.C25   | Campylobacter infections                         |
| (201.C26) | Campylobacter pylori infections<br>see QR201.H44 |
|           | Cancer see QR201.T84                             |
| 201.C27   | Candidiasis                                      |
| 201.C29   | Chagas' disease                                  |
| 201.C47   | Chlamydia infections                             |
| 201.C5    | Cholera  |
| 201.C54   | Clostridium diseases                             |
| 201.C58   | Coccidioidomycosis                               |
| 201.C59   | Coccidiosis                                      |
| 201.C6    | Conjunctivitis                                   |
| 201.C65   | Coxsackievirus infections                        |
| 201.C9    | Cystitis   |
| 201.C94   | Cytomegalovirus infections                       |
| 201.D4    | Diarrhea   |
|           | Diarrhea, Viral see QR201.V53                    |
| 201.D5    | Diphtheria                                       |
| 201.D6    | Diphtheroid organisms                            |
| 201.D9    | Dysentery. Bacillary dysentery                   |
| 201.E16   | Ebola virus disease                              |
| 201.E2    | Edema, Malignant                                 |
| 201.E45   | Erlchiosis                                       |
| 201.E6    | Endocarditis, Bacterial                          |
| 201.E64   | Enterococcal infections                          |
| 201.E75   | Epstein-Barr virus diseases                      |
| 201.E82   | Escherichia coli infections                      |
| 201.F6    | Food poisoning<br>Cf. QR201.B7 Botulism          |
| 201.F62   | Foodborne diseases                               |
| 201.F63   | Foot-and-mouth disease                           |
| 201.G45   | Giardiasis                                       |
| 201.G5    | Glanders   |
| 201.G7    | Gonorrhea  |



## Pathogenic microorganisms. By disease, A-Z -- Continued

|          |                                     |
|----------|-------------------------------------|
| 201.G76  | Gram-positive bacterial infections  |
| 201.H22  | Haemophilus infections              |
| 201.H24  | Hantavirus infections               |
| 201.H44  | Helicobacter pylori infections      |
| 201.H46  | Hepatitis, Viral                    |
| 201.H48  | Herpesvirus infections              |
|          | HIV infections see QR201.A37        |
| 201.H7   | Hog cholera                         |
| 201.H86  | HTLV infections                     |
| 201.I6   | Influenza                           |
|          | Jaundice see QR201.L6               |
| 201.L44  | Legionnaires' disease               |
| 201.L5   | Leprosy                             |
| 201.L6   | Leptospirosis. Jaundice             |
| 201.L64  | Leukemia                            |
| 201.L7   | Listeriosis                         |
| 201.L88  | Lyme disease                        |
| 201.L9   | Lymphocytic choriomeningitis        |
| 201.M3   | Malaria                             |
|          | Malignant edema see QR201.E2        |
| 201.M4   | Mastitis                            |
| 201.M43  | Measles                             |
| 201.M6   | Meningitis                          |
| 201.M73  | Microsporidiosis                    |
| 201.M96  | Mycobacterial diseases              |
| 201.M97  | Mycoplasma diseases                 |
| 201.M98  | Mycotoxicoses                       |
| 201.N4   | Necrosis                            |
| 201.N45  | Neisseria infections                |
| 201.N5   | Newcastle disease                   |
| 201.N67  | Norovirus infections                |
| 201.O6   | Oidiomycosis                        |
| 201.O8   | Osteomyelitis                       |
| 201.P26  | Papillomavirus diseases             |
| 201.P27  | Parasitic diseases                  |
| 201.P28  | Paratuberculosis                    |
| 201.P3   | Paratyphoid fever                   |
| 201.P33  | Parvovirus infections               |
| 201.P4   | Peritonitis                         |
| 201.P45  | Picornavirus infections             |
| 201.P5   | Plague                              |
| 201.P7   | Pneumococcal pneumonia              |
| 201.P73  | Poliomyelitis                       |
| 201.P732 | Polyomavirus infections             |
| 201.P733 | Porphyromonas gingivalis infections |
| 201.P737 | Prion diseases                      |
| 201.P74  | Pseudomonas aeruginosa infections   |
| 201.P75  | Pseudotuberculosis                  |
| 201.P8   | Psittacosis                         |
| 201.Q2   | Q fever                             |
| 201.R3   | Rabies                              |
| 201.R45  | Relapsing fever. Borreliosis        |
| 201.R47  | Retrovirus infections               |
| 201.R5   | Rheumatic fever                     |
| 201.R53  | Rheumatism                          |

- Pathogenic microorganisms. By disease, A-Z -- Continued
- 201.R59 Rickettsial diseases  
Rocky Mountain spotted fever see QR201.S65
- 201.R67 Rotavirus infections
- 201.S25 Salmonella infections
- 201.S27 Sarcocystosis
- 201.S28 SARS (Disease)
- 201.S3 Scarletina
- 201.S35 Schistosomiasis
- 201.S47 Serratia diseases
- 201.S55 Shigellosis
- 201.S6 Smallpox
- 201.S65 Spotted fever, Rocky Mountain
- 201.S68 Staphylococcal infections
- 201.S7 Streptococcus infections
- 201.S9 Syphilis
- 201.T3 Tetanus
- 201.T5 Torulosis
- 201.T53 Toxoplasmosis
- 201.T54 Trachoma
- 201.T55 Trichomoniasis
- 201.T6 Tuberculosis
- 201.T8 Tularemia
- 201.T84 Tumors. Cancer
- 201.T9 Typhoid fever
- 201.T95 Typhus fever
- Undulant fever see QR201.B8
- 201.V53 Viral diarrhea  
Viral hepatitis see QR201.H46
- 201.V55 Virus diseases
- 201.W6 Whooping cough
- 201.Y4 Yellow fever
- 201.Y45 Yersinia infections
- 201.Z45 Zika virus infection
- Medical mycology. Pathogenic fungi  
Class here general works only  
For particular fungi see QK621+  
Cf. QK604.2.P45 Phytopathogenic fungi  
Cf. RC117.A+ Mycotic diseases  
Cf. SB733 Fungus diseases of plants  
Cf. SF780.7 Veterinary mycology
- 245 General works
- 248 Diagnostic mycology
- Medical parasitology  
Class here general works only  
For particular protozoa see QL368.A115+  
For pathogenic microorganisms see QR201.A+  
Cf. QR201.P27 Parasitic diseases  
Cf. RC118+ Spirochetal and protozoan diseases  
Cf. SF781+ Veterinary medicine
- 251 General works
- 255 Diagnostic parasitology
- Microorganisms of animals  
Cf. QR171.A1+ Microorganisms in the animal body  
Cf. SF951+ Diseases of special classes of animals
- 301 General works

## Microorganisms of animals -- Continued

## Vertebrates

For domestic animals see SF780.2

- 302 General works
- Humans see QR46
- 303 Mammals
- 311 Birds
- 314 Amphibians
- 315 Reptiles
- 321 Fishes
  - Cf. SF458.5 Aquarium fish diseases
  - Cf. SH171+ Diseases and pests of fish

## Invertebrates

- 325 General works
- 327 Insects
- 330 Poikilotherms

## Microorganisms of microorganisms

- 340 General works
- Bacteriophages
  - 342 General works
  - 342.2.A-Z Individual phages or groups of phages, A-Z
  - 342.2.F37 fd
  - 342.2.I43 IKe
  - 342.2.M82 Mu
  - 342.2.T14 T4
- 343 Fungal viruses
- 351 Microorganisms of plants
  - Cf. SB621+ Microbial diseases of plants

## Mycoplasmas

- 352 General works
- 352.5.A-Z Systematic divisions. By family, A-Z
- 352.5.A3 Acholeplasmataceae
- 352.5.M9 Mycoplasmataceae

## Rickettsias

- 353 General works
- 353.5.A-Z Systematic divisions. By family, A-Z
- 353.5.A5 Anaplasmataceae
- 353.5.B3 Bartonellaceae
- (353.5.C4) Chlamydiaceae
  - see QR82.C35
- 353.5.R5 Rickettsiaceae

## Virology

- Cf. QR201.V55 Virus diseases
- Cf. SF780.4 Veterinary virology
- Cf. TD427.V55 Viral pollution of water
- 355 Periodicals, societies, congresses, serial publications
- 357 Collected works (nonserial)
- 358 Dictionaries and encyclopedias
- History
  - 359 General works
  - 359.5.A-Z By region or country, A-Z
- Biography
  - 359.7 Collective
  - 359.72.A-Z Individual, A-Z
- 360 General works, treatises, and textbooks
- 363 Pictorial works and atlases

- Virology -- Continued
- 364 Popular works
- 365 Juvenile works
- 368 Addresses, essays, lectures
- 370 Special aspects of the subject as a whole
- 372.A-Z Special topics, A-Z
- Bacteriophages see QR342+
- 372.M32 Macromolecules
- 372.O58 Oncogenic DNA viruses
- 372.O6 Oncogenic viruses
- Cf. QR201.T84 Tumors
- Study and teaching. Research
- 375 General works
- 376 Laboratory manuals
- Laboratories
- 380.A1 General works
- 380.A3-Z By region or country, A-Z
- Subarrange each country by Table Q6
- 383 Culture collections
- Technique
- 385 General works
- 385.5 Isolation
- 386 Culture technique
- 387 Diagnostic technique
- 387.5 Electron microscopy. Ultrastructural studies
- 388 Counting and measuring
- Statistical methods see QR72
- 388.5 Aquatic virology
- 389 Molecular virology
- 392 Variation
- Cf. QH434 Microbial genetics
- 393 Terminology, notation, abbreviations
- 394 Classification. Nomenclature
- Systematic divisions
- For classification for viruses of specific diseases see QR201.A+
- 394.5 DNA viruses
- Cf. QR372.O58 Oncogenic DNA viruses
- 395 RNA viruses
- 396 Adenoviruses
- 398 Arboviruses
- 398.5 Baculoviruses
- 398.6 Bromoviridae
- 398.7 Bunyaviruses
- 398.8 Caliciviruses
- 399 Coronaviruses
- Herpesviruses
- 400 General works
- 400.2.A-Z Special, A-Z
- Epstein-Barr virus
- Herpes simplex virus
- Varicella-zoster virus
- 401 Iridoviruses
- 401.5 Luteoviridae. Luteoviruses
- 402 Mosaic viruses
- 403 Nidoviruses
- For coronaviruses see QR399

## Virology

## Systematic divisions -- Continued

- 403.5 Noroviruses
- 404 Orthomyxoviruses. Myxoviruses  
Paramyxoviruses  
404.15 General works  
404.2.A-Z Special, A-Z  
404.2.N55 Nipah virus  
404.2.S45 Sendai virus  
Orthopoxviruses  
405 General works  
405.2.A-Z Special, A-Z  
405.2.B83 Buffalopox virus  
Papillomaviruses. Polyomaviruses  
406 General works  
406.2.A-Z Special, A-Z  
406.2.S56 Simian virus 40. SV40  
SV40 see QR406.2.S56  
Parvoviruses. Picodnaviruses  
408 General works  
408.2.A-Z Special, A-Z  
408.2.A34 Adeno-associated virus 2  
408.2.C35 Canine parvovirus  
408.2.D47 Dependoviruses  
Picornaviruses  
410 General works  
410.2.A-Z Special, A-Z  
410.2.E55 Enteroviruses  
410.2.R45 Rhinoviruses  
Polyomaviruses see QR406+  
411 Potyviridae. Potyviruses  
412 Poxviruses  
414 Reoviruses  
Retroviruses  
414.5 General works  
414.6.A-Z Special, A-Z  
414.6.F6 Foamy viruses  
414.6.H58 HIV  
415 Rhabdoviruses  
415.5 Togaviruses  
416.A-Z Other groups of viruses, A-Z  
416.C35 California group viruses  
416.R8 Rubella viruses  
Viruses of particular hosts see QR301+  
Viruses of particular diseases see QR201.A+  
Viruses of particular body organs or systems see QR171.A1+  
Virus structure  
450 General works  
451 Size  
452 Shape  
453 Capsids  
Including capsid proteins  
454 Envelope  
456 DNA  
458 RNA  
460 Protein

## Virology

- Virus structure -- Continued
  - Proteins, Capsids see QR453
- 462 Enzymes
- 465 Virus function
- 467 Biochemistry
- 469 Adsorption
- 470 Replication
- 472 Transformation
- 474 Lysogeny
- Effect of environment
  - 478.A1 General works, treatises, and textbooks
  - 478.A2-Z By agent, A-Z
  - 478.R3 Radiation
  - 478.T4 Temperature
- 480 Virus-virus interaction
- 482 Virus-host interaction
- 484 Virus-vector interaction
- 500 Viroids
- 502 Prions

|      |                          |
|------|--------------------------|
| .A2  | Ac Actinium              |
| .A3  | Ag Silver (Argentum)     |
|      | Alabamine see Q1 .A8     |
| .A4  | Al Aluminum              |
| .A5  | Am Americium             |
|      | Antimony see Q1 .S3      |
|      | Argentum see Q1 .A3      |
| .A6  | Ar Argon                 |
| .A7  | As Arsenic               |
| .A8  | At Astatine (Alabamine)  |
| .A9  | Au Gold (Aurum)          |
| .B1  | B Boron                  |
| .B2  | Ba Barium                |
| .B4  | Be Beryllium (Glucinum)  |
| .B46 | Bh Bohrium               |
| .B5  | Bi Bismuth               |
| .B55 | Bk Berkelium             |
| .B7  | Br Bromine               |
| .C1  | C Carbon                 |
| .C2  | Ca Calcium               |
| .C3  | Cd Cadmium               |
|      | Cassiopeium see Q1 .L8   |
|      | Celtium see Q1 .H5       |
| .C4  | Ce Cerium                |
| .C45 | Cf Californium           |
| .C5  | Cl Chlorine              |
| .C55 | Cm Curium                |
| .C57 | Cn Copernicium           |
| .C6  | Co Cobalt                |
| .C7  | Cr Chromium              |
| .C8  | Cs Cesium                |
|      | Columbium see Q1 .N3     |
| .C9  | Cu Copper (Cuprum)       |
| .D2  | Db Dubnium               |
|      | Didymium see Q1 .P7      |
| .D8  | Dy Dysprosium            |
| .E6  | Er Erbium                |
| .E7  | Es Einsteinium           |
| .E8  | Eu Europium              |
| .F1  | F Fluorine               |
| .F4  | Fe Iron (Ferrum)         |
| .F5  | Fm Fermium               |
|      | Ferrum see Q1 .F4        |
| .F7  | Fr Francium              |
| .G2  | Ga Gallium               |
| .G4  | Gd Gadolinium            |
| .G5  | Ge Germanium             |
|      | Glucinum see Q1 .B4      |
|      | Gold see Q1 .A9          |
| .H1  | H Hydrogen               |
| .H4  | He Helium                |
| .H5  | Hf Hafnium (Celtium)     |
| .H6  | Hg Mercury (Hydrargyrum) |
| .H7  | Ho Holmium               |
| .H8  | Hs Hassium               |
|      | Hydrargyrum see Q1 .H6   |

|      |                           |
|------|---------------------------|
| .I1  | I Iodine                  |
|      | Illinium see Q1 .P5       |
| .I5  | In Indium                 |
| .I7  | Ir Iridium                |
|      | Iron see Q1 .F4           |
| .K1  | K Potassium (Kalium)      |
| .K6  | Kr Krypton                |
| .L2  | La Lanthanum              |
|      | Lead see Q1 .P3           |
| .L5  | Li Lithium                |
| .L8  | Lu Lutetium (Cassiopeium) |
| .L9  | Lw Lawrencium             |
| .M3  | Md Mendeleevium           |
| .M4  | Mg Magnesium              |
| .M6  | Mn Manganese              |
|      | Mercury see Q1 .H6        |
| .M7  | Mo Molybdenum             |
|      | Natrium see Q1 .N2        |
| .N1  | N Nitrogen                |
| .N2  | Na Sodium (Natrium)       |
| .N3  | Nb Niobium (Columbium)    |
| .N4  | Nd Neodymium              |
| .N5  | Ne Neon                   |
| .N6  | Ni Nickel                 |
|      | Niton see Q1 .R6          |
| .N65 | No Nobelium               |
| .N7  | Np Neptunium              |
| .O1  | O Oxygen                  |
| .O7  | Os Osmium                 |
| .P1  | P Phosphorus              |
| .P2  | Pa Protactinium           |
| .P3  | Pb Lead (Plumbum)         |
| .P4  | Pd Palladium              |
|      | Plumbum see Q1 .P3        |
| .P5  | Pm Promethium (Illinium)  |
| .P6  | Po Polonium               |
|      | Potassium see Q1 .K1      |
| .P7  | Pr Praseodymium. Didymium |
| .P8  | Pt Platinum               |
| .P9  | Pu Plutonium              |
| .R1  | Ra Radium                 |
| .R3  | Rb Rubidium               |
| .R4  | Re Rhenium                |
| .R45 | Rf Rutherfordium          |
| .R47 | Rg Roentgenium            |
| .R5  | Rh Rhodium                |
| .R6  | Rn Radon (Niton)          |
| .R9  | Ru Ruthenium              |
| .S1  | S Sulfur                  |
| .S3  | Sb Antimony (Stibium)     |
| .S4  | Sc Scandium               |
| .S5  | Se Selenium               |
| .S55 | Sg Seaborgium             |
| .S6  | Si Silicon                |
|      | Silver see Q1 .A3         |
| .S65 | Sm Samarium               |



|      |   |
|------|---|
| .S7  | Sn Tin (Stannum)<br>Sodium see Q1 .N2<br>Stannum see Q1 .S7<br>Stibium see Q1 .S3 |
| .S8  | Sr Strontium  |
| .T2  | Ta Tantalum   |
| .T3  | Tb Terbium  |
| .T35 | Tc Technetium   |
| .T4  | Te Tellurium  |
| .T5  | Th Thorium<br>Tin see Q1 .S7  |
| .T6  | Ti Titanium   |
| .T7  | Tl Thallium   |
| .T8  | Tm Thulium<br>Tungsten see Q1 .W1   |
| .U7  | U Uranium   |
| .V2  | V Vanadium  |
| .W1  | W Tungsten (Wolfram)  |
| .X4  | Xe Xenon  |
| .Y1  | Y Yttrium   |
| .Y3  | Yb Ytterbium  |
| .Z6  | Zn Zinc   |
| .Z7  | Zr Zirconium  |

|       |                                    |
|-------|------------------------------------|
| .x    | General works                      |
| .x2   | Particle source                    |
| .x3   | Effect of particles                |
| .x4   | Moments. Resonance. Spin. Symmetry |
| .x5   | Capture. Decay. Lifetime           |
| .x6   | Charge. Density. Mass              |
| .x7   | Energy spectra. Radiation          |
| .x8   | Particle interactions. Scattering  |
| (.x9) | Instrumentation                    |
|       | see QC785.5+                       |

.A1 General works  
.A3-Z By region, country, or island, A-Z  
Offshore islands generally class with adjacent mainland

.x  
.x2A-.x2Z

General works  
Local, A-Z

.x  
.x2A-.x2Z

General works  
Special. By city, A-Z

Q6 TABLE OF SUBARRANGEMENT FOR LABORATORIES, STATIONS, OR PROJECTS (CUTTER NO.) Q6

.x General works  
.x2A-.x2Z Individual laboratories, stations, or projects. By name, A-Z

|           |   |
|-----------|---|
| .x        | General works                                 |
| .x2A-.x2Z | Local, A-Z                                    |
| .x3A-.x3Z | Special schools or universities. By name, A-Z |

## INDEX

### A

- A stars: QB843.A12
- Aardvarks
  - Zoology: QL737.T8
- Abalones: QL430.5.H34
- ABAP (Computer program language): QA76.73.A12
- Abbreviations
  - Analytical chemistry: QD71.8
  - Biology: QH304.5
  - Natural history: QH83.5
- Abdomen
  - Regional anatomy: QM543
- Abduction (Logic)
  - Philosophy of science: Q175.32.A24
- Abelian functions: QA345
- Abelian groups: QA180
- Aberration
  - Electromagnetic theory: QC671
  - Spherical astronomy: QB163
- Abominable snowman: QL89.2.Y4
- Abrocomidae: QL737.R62
- Abscisic acid
  - Plant constituent: QK898.A15
- Abscission
  - Plant physiology: QK763
- Absolute, The
  - Physics: QC6.4.A27
- Absorption
  - Atomic physics: QC182
  - Gas mechanics: QC162
  - Heat transfer: QC331+
  - Nutrition: QP165
- Absorption apparatus
  - Chemical laboratories: QD54.A3
- Absorption of water
  - Phytochemistry: QK871
- Absorption spectra
  - Analytical chemistry: QD96.A2
  - Physics: QC454.A2
- Absorptionmeter: QC465
- Abstract algebra: QA162
- Abstract automata
  - Algebra: QA267+
- Abstract data types
  - Computer science: QA76.9.A23
- Abstract harmonic analysis: QA403+
- Abstract machines
  - Algebra: QA267+
- Abstracting and indexing
  - Chemistry: QD9
- Abyssal zone
  - Ecology: QH541.5.D35
- Abyssochrysidae: QL430.5.A18
- Acanaloniidae: QL527.A2
- Acanthaceae: QK495.A1655
- Acantharia: QL368.A32
- Acanthisittidae: QL696.P212
- Acanthizidae: QL696.P213
- Acanthocephala: QL391.A2
- Acanthoceridae: QL596.A23
- Acanthochitonidae: QL430.14.A26
- Acanthoclinidae: QL638.A15
- Acanthoectenidae: QL458.42.A2
- Acanthometrida: QL368.A33
- Acanthophractida: QL368.A335
- Acanthosomatidae: QL523.A14
- Acanthuridae: QL638.A2
- Acari
  - Paleozoology: QE826.A2
  - Zoology: QL458+
- Acaridae: QL458.2.A3
- Acariformes: QL458.15.A33
- Acarina
  - Paleozoology: QE826.A2
  - Zoology: QL458+
- Acarophilism: QK924
- Acceleration
  - Physiological effect: QP82.2.A2
- Accelerator mass spectrometry
  - Physics: QC454.A25
- Accentors: QL696.P266
- Access control
  - Computer science: QA76.9.A25
- Accessory female organs: QP265
- Accessory male organs: QP257
- Accipitres
  - Paleozoology: QE872.A15
- Accipitridae: QL696.F32
- Accipitriformes: QL696.F3+
- Acclimatization
  - Ecology: QH543.2
  - Plant ecology: QK913
- Accommodation, Eye
  - Physiology: QP477
- Accretion (Astrophysics): QB466.A25
- Aceraceae: QK495.A17
- Acerentomidae: QL503.6.A3
- Acetic acid
  - Animal biochemistry: QP752.A25
  - Microbial metabolism: QR92.A3
- Acetolactate synthase
  - Plant constituent: QK898.A156
- Acetone
  - Animal biochemistry: QP801.A25
- Acetylcholinesterase
  - Animal biochemistry: QP609.A25
- Acetylene
  - Aliphatic compounds: QD305.H8
- Acetylenes
  - Plant constituent: QK898.A16
- Acetyltransferases
  - Animal biochemistry: QP606.A33
- Achariaceae: QK495.A175



## INDEX

- Achatinellidae: QL430.5.A2
- Achatinidae: QL430.5.A22
- Achatocarpaceae: QK495.A176
- Achilidae: QL527.A25
- Achilixiidae: QL527.A259
- Acholeplasmataceae
  - Microbiology: QR352.5.A3
- Achondrites: QB758.5.A47
- Achromatiaceae: QR82.A3
- Aciculidae: QL430.5.A23
- Acid-base equilibrium
  - Physiology: QP90.7
- Acid deposition
  - Effect on plants and animals: QH545.A17
- Acid precipitation
  - Effect on plants and animals: QH545.A17
  - Meteorology: QC926.5+
- Acid rain
  - Effect on plants and animals: QH545.A17
  - Meteorology: QC926.5+
- Acidity
  - Bacterial physiology: QR97.A3
- Acids
  - Aliphatic compounds: QD305.A2
  - Animal biochemistry: QP801.A26
  - Aromatic compounds: QD341.A2
  - Effect on plants: QK753.A25
  - Effect on plants and animals: QH545.A2
  - Theoretical chemistry: QD477
- Acinetobacter infections
  - Microbiology: QR201.A16
- Acipenseridae: QL638.A25
- Acipenseriformes: QL637.9.A3
  - Paleozoology: QE852.A25
- Aclididae: QL430.5.A24
- Acmaeidae: QL430.5.A26
- Acmite
  - Mineralogy: QE391.A18
- Aconchulinida: QL368.A36
- Acorduleceridae: QL568.A17
- Acouchis: QL737.R644
- Acoustic holography: QC244.5
- Acoustic localization: QC243.3.A24
- Acoustic microscopes: QH212.A25
- Acoustic nuclear magnetic resonance: QC762.6.A25
- Acoustic phenomena
  - Geophysics: QC809.A25
- Acoustic properties
  - Liquids: QC145.4.A25
  - Petrology: QE431.6.A25
  - Polymers: QD381.9.A25
  - Semiconductors: QC611.6.A36
  - Solid state physics: QC176.8.A3
- Acoustic radiation
  - Effect on cells: QH652.7
- Acoustic streaming: QC243.3.A25
- Acoustics
  - Physics: QC221+
- Acoustics, Nonlinear: QC244.2
- Acoustics, Underwater: QC242+
- Acoustooptics: QC220.5
- Acquired immunity: QR185.3+
- Acraeidae: QL561.A25
- Acrasida: QL368.A38
- Acrididae: QL508.A2
- Acritarchs
  - Paleozoology: QE899.2.A37
- Acrobatidae: QL737.M346
- Acrocephalidae: QL696.P2133
- Acroceridae: QL537.A3
- Acrochaetiaceae: QK569.A27
- Acrochordidae: QL666.O62
- Acrolepiidae: QL561.A254
- Acrolophidae: QL561.A256
- Acroloxidae: QL430.5.A28
- Acropomatidae: QL638.A27
- Acrothoracica: QL444.C52
- Acrylic polymers
  - Organic chemistry: QD383.A27
- Actaeonellidae
  - Paleozoology: QE809.A18
- Actaeonidae: QL430.5.A29
  - Paleozoology: QE809.A2
- Actaletidae: QL503.A3
- ACTH
  - Animal biochemistry: QP572.A35
- Actin: QP552.A27
- Actin genes: QH447.8.A28
- Actinide elements
  - Effect on plants and animals: QH545.A23
  - Inorganic chemistry: QD172.A3
  - Radiation chemistry: QD651.A36
- Actinidiaceae: QK495.A177
- Actiniopteridaceae: QK524.A25
- Actinium
  - Chemical element: Q1 .A2
- Actinoceratidae: QE807.A25
- Actinolite: QE391.A2
- Actinometers: QC912
- Actinomycetaceae: QR82.A35
- Actinomycosis
  - Microbiology: QR201.A2
- Actinomyxida: QL368.A4
- Actinophryida: QL368.A44
- Actinoplanaceae: QR82.A355
- Actinopoda: QL368.A14
- Actinopodidae: QL458.42.A28
- Active galaxies: QB858.3+
- Active regions of the sun: QB526.A37
- Activity programs
  - Botany: QK52.55
- Actomyosin: QP552.A32
- Aculognathidae: QL596.A27

## INDEX

- Acyclic acids
  - Animal biochemistry: QP801.A265
- Acylation
  - Organic chemistry: QD281.A2
- Ada (Computer program language): QA76.73.A35
- Adakite: QE462.A34
- Adaptation
  - Ecology: QH546
  - Endocrine glands: QP187.3.A28
  - Heart: QP114.A32
- Adaptive computing: QA76.9.A3
- Addition
  - Elementary mathematics: QA115
- Adelanthaceae: QK555.A3
- Adelgidae: QL527.A3
- Adelidae: QL561.A3
- Adenine nucleotides
  - Animal biochemistry: QP625.A25
- Adeno-associated virus 2
  - Virology: QR408.2.A34
- Adenosine
  - Animal biochemistry: QP625.A27
- Adenosine diphosphate ribose: QP625.A29
- Adenosine triphosphatase
  - Animal biochemistry: QP609.A3
  - Plant constituent: QK898.A18
- Adenosine triphosphate
  - Animal biochemistry: QP625.A3
- Adenosylmethionine: QP563.A3
- Adenovirus diseases
  - Microbiology: QR201.A27
- Adenoviruses
  - Virology: QR396
- Adenylate cyclase
  - Animal biochemistry: QP613.A33
- Adenylic acid
  - Animal biochemistry: QP625.A35
- Aderidae: QL596.A3
- Adermine
  - Animal biochemistry: QP772.P9
- Adhesion
  - Cytology: QH623
  - Solid state physics: QC176.8.A35
- Adhesion, Bacterial: QR96.8
- Adiabatic calorimeters: QC293.A3
- Adiabatic invariants (Mathematical physics): QC20.7.A34
- Adiabatic processes
  - Meteorology: QC880.4.A3
- Adiantaceae: QK524.A29
- Adiaspiromycosis
  - Microbiology: QR201.A3
- Adipose tissues
  - Human histology: QM565
  - Physiology: QP88.15
- Adjuvants
  - Immunology: QR187.3
- Adobe Acrobat
  - File conversion software: QA76.9.F48
- Adoxaceae: QK495.A178
- Adrenal cortex
  - Physiology: QP188.A28
- Adrenal glands
  - Physiology: QP188.A3
- Adrenal medulla
  - Physiology: QP188.A33
- Adrenaline
  - Animal biochemistry: QP572.A27
- Adrenergic receptors
  - Cardiovascular system: QP110.A37
- Adrenocortical hormones
  - Animal biochemistry: QP572.A3
- Adrenocorticotrophic hormone
  - Animal biochemistry: QP572.A35
- Adrianichthyidae: QL638.A29
- Adsorption
  - Atomic physics: QC182
  - Cytology: QH622
  - Gas mechanics: QC162
  - Physical chemistry: QD547
  - Virology: QR469
- Adult stem cells
  - Cytology: QH588.A38
- Aegeriidae: QL561.S47
- Aegialiidae: QL596.A37
- Aegithalidae: QL696.P2135
- Aegithinidae: QL696.P2344
- Aegothelidae: QL696.C22
- Aegyptianella: QR82.A39
- Aeolidiidae: QL430.5.A45
- Aeolothripidae: QL598.3.A4
- Aepophilidae: QL523.A35
- Aepyornithiformes
  - Paleozoology: QE872.A2
- Aerial erosion
  - Geology: QE597
- Aerial photography in botany: QK46.5.A47
- Aerial photography in geology: QE33.2.A3
- Aerodynamics
  - Fluid dynamics: QA930
- Aerolites
  - Astronomy: QB758+
- Aeromonadaceae: QR82.A43
- Aeronautical almanacs
  - Ephemerides: QB8.A+
- Aeronautics in astronomy: QB135.5
- Aeronautics in marine biology: QH91.57.A4
- Aeronautics in meteorology: QC879.3+
- Aeronomy: QC878.5+
- Aerosols
  - Atmospheric pollutants: QC882.4+
- Aeshnidae: QL520.3.A4
- Aesthetics
  - Philosophy of science: Q175.32.A47

## INDEX

- Aethaloniidae: QL527.A4
- Aextoxicaceae: QK495.A185
- Afferent pathways
  - Anatomy: QL938.A35
- Affine geometry: QA477
- Affinity, Chemical
  - Physical chemistry: QD505.5
- Affinity chromatography: QP519.9.A35
- Affinity electrophoresis: QP519.9.A36
- Affinity labeling: QP519.9.A37
- Affinity scheduling: QA76.5295.A34
- African mole rats: QL737.R628
- African swine fever
  - Microbiology: QR201.A35
- African violet
  - Botany: QK495.G4
- African wild dog
  - Anecdotes: QL795.A35
- Afrosoricida: QL737.A35+
- After-images
  - Physiology: QP482.5
- Afterglow
  - Electric discharge: QC711.8.A34
- Aftershocks
  - Seismology: QE539.2.A4
- Agallidae: QL527.A44
- Agamidae: QL666.L223
- Agaontidae: QL568.A23
- Agapanthaceae: QK495.A24
- Agar
  - Animal biochemistry: QP702.A3
- Agaricaceae: QK629.A4
- Agaricales: QK629.A44
- Agaristidae: QL561.A4
- Agassiz
  - Natural history: QH31.A2
- Agates
  - Mineralogy: QE391.Q2
- Agaves: QK495.A83
- Age determination
  - Fishes: QL639.15
  - Mammals: QL739.25
  - Reptiles and amphibians: QL669.25
  - Zoology: QL60.7
- Age/growth calculations
  - Fishes: QL639.15
- Age of solar system: QB503
- Age of the earth: QE508
- Agelenidae: QL458.42.A3
- Ageneiosidae: QL638.A3
- Agglutination
  - Antigen-antibody reactions: QR187.A3
  - Blood physiology: QP99.5.A3
- Aggregation
  - Microbiology: QR73.6
- Aggression
  - Animals: QL758.5
- Aging
  - Biology: QH529
  - Cells: QH608
  - Developmental physiology: QP86
  - Endocrine glands: QP187.3.A34
  - Heart: QP114.A35
  - Plant physiology: QK762.5+
- Aglucones
  - Animal biochemistry: QP702.A35
- Aglycyderidae: QL596.A4
- Agmatine
  - Animal biochemistry: QP563.A38
- Agnatha
  - Paleozoology: QE852.A33
  - Zoology: QL638.12+
- Agnostida
  - Paleozoology: QE823.A35
- Agonidae: QL638.A316
- Agonistic behavior
  - Animals: QL758.5
- Agonomycetaceae: QK625.A48
- Agonoxenidae: QL561.A46
- Agoutidae: QL737.R623
- Agoutis: QL737.R644
- Agricultural chemicals
  - Effect on plants and animals: QH545.A25
- Agricultural geology: QE37
- Agricultural microbiology: QR51
- Agrionidae: QL520.3.A5
- Agriotypidae: QL568.A24
- Agromyzidae: QL537.A4
- AIDS (Disease)
  - Microbiology: QR201.A37
  - Vaccines: QR189.5.A33
- AIDS vaccines: QR189.5.A33
- Ailuridae: QL737.C214
- Air
  - Chemistry: QD163
  - Fluid mechanics: QC161+
  - Microbiology: QR101
- Air almanacs
  - Ephemerides: QB8.A+
- Air analysis
  - Analytical chemistry: QD121
- Air masses
  - Climatology: QC981.8.A5
  - Meteorology: QC880.4.A5
- Air pollution
  - Effect on plants: QK751
  - Effect on plants and animals: QH545.A3
  - Physiological effect: QP82.2.A3
- Air sacs
  - Anatomy: QL855
- Air thermometers: QC273
- Airbreathing catfishes: QL638.C6
- Airglow: QC976.A3

## INDEX

- Aistopoda
  - Paleozoology: QE868.A46
- Aizoaceae: QK495.A32
- Akaniaceae: QK495.A34
- Akysidae: QL638.A32
- Alabetidae: QL638.G6
- Alangiaceae: QK495.A36
- Alanine aminopeptidase
  - Animal biochemistry: QP609.A38
- Alariaceae: QK569.A43
- Alaskite: QE462.A35
- Alaudidae: QL696.P214
- Albamine
  - Chemical element: Q1 .A8
- Albatrosses
  - Zoology: QL696.P63
- Albedo: QC912.5
- Albitite: QE462.A37
- Albuginaceae: QK621.A42
- Albulidae: QL638.A335
- Albumins
  - Animal biochemistry: QP552.A43
  - Blood constituents: QP99.3.A4
  - Plant constituent: QK898.A2
- Alcedinidae: QL696.C72
- Alchemy: QD23.3+
  - History: QD13
- Alcidae: QL696.C42
  - Paleozoology: QE872.A3
- Alciformes: QL696.C4+
- Alcohol
  - Animal biochemistry: QP801.A3
  - Radiation chemistry: QD651.A4
- Alcohol dehydrogenase
  - Animal biochemistry: QP603.A34
- Alcohols
  - Aliphatic compounds: QD305.A4
  - Aromatic compounds: QD341.A4
  - Spectra: QC463.A4
- Alcyonaria: QL377.C6
- Aldehyde dehydrogenase
  - Animal biochemistry: QP603.A35
- Aldehydes
  - Aliphatic compounds: QD305.A6
  - Animal biochemistry: QP801.A33
  - Aromatic compounds: QD341.A6
- Alderflies
  - Zoology: QL514.7.S52
- Aldolases
  - Animal biochemistry: QP613.A4
- Aldosterone
  - Animal biochemistry: QP572.A4
- Aldrin
  - Effect on plants and animals: QH545.A4
- Alephcephalidae: QL638.A35
- Alepisauridae: QL638.A34
- Aleyrodidae: QL527.A5
- Algae: QK564+
  - Paleontology: QE955
- Algebra: QA150+
- Algebra of currents
  - Atomic physics: QC174.52.A43
  - Elementary particle physics: QC793.3.A4
- Algebraic fields: QA247+
- Algebraic functions: QA341
- Algebraic geometry: QA564+
  - Elementary particle physics: QC793.3.G46
  - Mathematical physics: QC20.7.A37
- Algebraic logic: QA10+
- Algebraic logic (Mathematical physics): QC20.7.A4
- Algebraic numbers: QA247+
- Algebraic topology: QA612+
- Algin
  - Plant constituent: QK898.A3
- ALGOL (Computer program language): QA76.73.A24
- Algol systems: QB833+
- Algology: QK564+
- Algorithms: QA9.58
  - Computer science: QA76.9.A43
- Alicyclic compounds: QD305.H9
- Alienidae: QL568.A3
- Alimentary canal
  - Microbiology: QR171.A43
- Aliphatic compounds: QD300+
- Alismataceae: QK495.A4
- Alkahest: QD26.5.A4
- Alkali heath
  - Botany: QK495.F67
- Alkali metal electrodes: QD572.A65
- Alkali metal halides
  - Spectra: QC464.A43
- Alkali metals
  - Geochemistry: QE516.A35
  - Inorganic chemistry: QD172.A4
- Alkalic igneous rocks: QE462.A4
- Alkaline earth ferricyanides
  - Spectra: QC464.A44
- Alkaline earth metals
  - Inorganic chemistry: QD172.A42
- Alkaline phosphatase
  - Animal biochemistry: QP609.A4
- Alkaloids
  - Animal biochemistry: QP801.A34
  - Biochemistry: QD421+
  - Effect on plants: QK753.A4
  - Plant constituent: QK898.A4
  - Spectra: QC463.A47
- Alkanes
  - Aliphatic compounds: QD305.H6
  - Microbial metabolism: QR92.A49
- Alkenes
  - Aliphatic compounds: QD305.H7
- Alkoxides
  - Organic chemistry: QD411.8.A47

## INDEX

- Alkylation
  - Organic chemistry: QD281.A5
- Alkynes
  - Aliphatic compounds: QD305.H8
- All terrain bicycles
  - Effect on plants and animals: QH545.A42
- All terrain cycling
  - Effect on plants and animals: QH545.A42
- All terrain vehicles
  - Effect on plants and animals: QH545.A43
- Allactoneuridae: QL537.A45
- Allanite
  - Mineralogy: QE391.A4
- Allantoin
  - Animal biochemistry: QP801.A35
- Allantoinase
  - Animal biochemistry: QP609.A43
- Allantois
  - Embryology: QL973
- Alleculidae: QL596.A42
- Alleged animals: QL89+
- Alleles
  - Recombination genetics: QH447+
- Allelochemicals
  - Plant constituent: QK898.A43
- Allelopathic agents
  - Plant constituent: QK898.A43
- Allende meteorite: QB756.A44
- Allergy
  - Immunology: QR188
- Alliaceae: QK495.A42
- Alligators
  - Anecdotes: QL795.A4
  - Zoology: QL666.C925
- Alloptidae: QL458.2.A44
- Allostasis
  - Physiological effect: QP82.2.A36
- Allosteric proteins
  - Animal biochemistry: QP552.A436
- Allosteric regulation
  - Animal biochemistry: QP517.A55
- Allostethidae: QL510.3.A4
- Allotropy: QD470
- Alloys
  - Analytical chemistry: QD135+
  - Microbiology: QR53.5.A44
  - Semiconductor physics: QC611.8.A44
  - Superconductors: QC611.98.A44
- Almucantar: QB103
- Aloaceae: QK495.A42
- Alopiidae: QL638.95.A4
- Alpha fetoproteins
  - Animal biochemistry: QP552.A439
- Alpha-keto acid dehydrogenase
  - Animal biochemistry: QP603.A37
- Alpha macroglobulins
  - Blood constituents: QP99.3.A45
- Alpha particles
  - Elementary particle physics: QC793.5.A22+
- Alpha rays
  - Elementary particle physics: QC793.5.A22+
- Alpha-synuclein
  - Animal biochemistry: QP552.A4397
- Altazimuth: QB103
- Alternating currents
  - Electrodynamics: QC641
- Alternation of generations
  - Plant anatomy: QK663
  - Reproduction: QH489
- Alticidae: QL596.A43
- Altitude
  - Physiological effect: QP82.2.A4
- Altitude of clouds: QC922+
- Altitude of meteors: QB743
- Altruistic behavior
  - Animals: QL775.5
- Alucitidae: QL561.A48
- Aluminum
  - Chemical element: Q1 .A4
  - Effect on plants: QK753.A45
  - Superconductors: QC611.98.A48
- Aluminum alloys
  - Analytical chemistry: QD137.A6
- Alunite
  - Mineralogy: QE391.A45
- Alydidae: QL523.A4
- Alysiidae: QL568.A34
- Alyssonidae: QL568.A344
- Alytidae: QL668.E214
- Amanitaceae: QK629.A53
- Amaranth
  - Botany: QK495.A48
- Amaranthaceae: QK495.A48
- Amarsipidae: QL638.A36
- Amaryllidaceae: QK495.A484
- Amaryllis
  - Botany: QK495.A484
- Amastridae: QL430.5.A5
- Amathusiidae: QL561.A5
- Amaurobiidae: QL458.42.A4
- Amaurobioididae: QL458.42.A57
- Amazonite
  - Mineralogy: QE391.A48
- Amber
  - Mineralogy: QE391.A5
- Amber fauna
  - Paleontology: QE742
- Amber flora
  - Paleobotany: QE932
  - Paleontology: QE742
- Ambersnails: QL430.5.S87
- Ambient intelligence
  - Computer science: QA76.9.A48
- Amblemidae: QL430.7.A34

## INDEX

- Amblycipitidae: QL638.A364
- Amblyopsidae: QL638.A366
- Amblypygi: QL458.3+
- Amblystegiaceae: QK539.A6
- Amborellaceae: QK495.A485
- Ambushbugs: QL523.P53
- Ambystomatidae: QL668.C23
- Amebiasis
  - Microbiology: QR201.A55
- America Online: QA76.57.A43
- American leaf-nosed bats: QL737.C57
- American opossums: QL737.M34
- American sparrows
  - Zoology: QL696.P2438
- Americium
  - Chemical element: Q1 .A5
- Ameronothridae: QL458.2.A45
- Amethysts
  - Mineralogy: QE394.A4
- Ametropodidae: QL505.3.S5
- Amidases
  - Animal biochemistry: QP609.A438
- Amides
  - Aliphatic compounds: QD305.A7
  - Aromatic compounds: QD341.A7
- Amiidae: QL638.A37
- Amiiformes
  - Paleozoology: QE852.A4
- Amination
  - Organic chemistry: QD281.A6
- Amine polymers
  - Organic chemistry: QD383.A55
- Amines
  - Animal biochemistry: QP801.A48
- Amino acid oxidases
  - Animal biochemistry: QP603.A4
- Amino acids
  - Animal biochemistry: QP561+
  - Biochemistry: QD431+
  - Microbial metabolism: QR92.A6
  - Plant constituent: QK898.A5
- Amino compounds
  - Aliphatic compounds: QD305.A8
  - Aromatic compounds: QD341.A8
- Amino oxidase
  - Animal biochemistry: QP603.M6
- Amino sugars
  - Animal biochemistry: QP702.A4
- Aminoacyl-tRNA
  - Plant constituent: QK898.A52
- Aminoacyl-tRNA synthetases
  - Animal biochemistry: QP619.A45
- Aminobenzoic acids
  - Animal biochemistry: QP772.A4
- Aminobutyric acid
  - Animal biochemistry: QP563.A48
- Aminocapric acid
  - Animal biochemistry: QP563.A5
- Aminopeptidases
  - Animal biochemistry: QP609.A44
- Aminotransferases
  - Animal biochemistry: QP606.A43
- Amintes
  - Spectra: QC463.A8
- Ammeters
  - Physics: QC615
- Ammodytidae: QL638.A4
- Ammonia
  - Effect on plants and animals: QH545.A45
  - Radiation chemistry: QD651.A45
  - Spectra: QC464.A47
- Ammonoidea
  - Paleozoology: QE807.A5
- Ammonolysis
  - Organic chemistry: QD281.A63
- Ammotrechidae: QL458.82.A4
- Amnoxenidae: QL458.42.A45
- Amnicolidae: QL430.5.H9
- Amnion
  - Embryology: QL975
- Amniotes: QE847
- Amniotic fluid
  - Embryology: QL975
- Amoebida: QL368.A5
- Amorphous substances
  - Magnetic materials: QC766.A4
  - Semiconductor physics: QC611.8.A5
  - Solid state physics: QC176.8.A44
- Amphibian watching: QL645.6+
- Amphibians
  - Paleozoology: QE867+
  - Zoology: QL667+
- Amphibians and reptiles
  - Zoology: QL640+
- Amphiboles: QE391.A53
- Amphibolite: QE475.A4
- Amphiliidae: QL638.A44
- Amphineura
  - Paleozoology: QE805
- Amphiphiles
  - Organic chemistry: QD382.A47
- Amphipnoidae: QL638.A47
- Amphipoda: QL444.M315
  - Paleozoology: QE817.A6
- Amphipterygidae: QL520.3.A6
- Amphisbaeni: QL666.L192+
- Amphisbaenidae: QL666.L193
- Amphitheridae: QL561.A57
- Amphiumidae: QL668.C237
- Amphizoidae: QL596.A45
- Amplitude
  - Sound waves: QC243.3.A4
- Ampulicidae: QL568.A36

## INDEX

- Ampullariidae: QL430.5.A57
- Amydriidae: QL561.T55
- Amylase
  - Animal biochemistry: QP609.A45
- Amylin
  - Animal biochemistry: QP572.A48
- Amyloid
  - Animal biochemistry: QP552.A45
  - Plant constituent: QK898.A53
- Amyloses
  - Animal biochemistry: QP702.A48
- AN/FSQ-7
  - Computer: QA76.8.A54
- Anabantidae: QL638.A5
- Anablepidae: QL638.A53
- Anacanthobatidae: QL638.85.A5
- Anacardiaceae: QK495.A498
- Anacharitidae: QL568.A38
- Anaerobic bacteria
  - Microbiology: QR89.5
- Anaerobic fungi: QK604.2.A52
- Anaerobic infections
  - Microbiology: QR201.A57
- Anaerobiosis
  - Biology: QH518.5
  - Phytochemistry: QK894
- Analcime
  - Mineralogy: QE391.A55
- Analgidae: QL458.2.A5
- Analog computers: QA76.4
- Analysis
  - Biochemistry: QD431.25.A53
  - Mathematical physics: QC20.7.A5
  - Mathematics: QA299.6+
  - Organic chemistry
    - Carbohydrates: QD322.A52
  - Organometallic chemistry: QD411.7.A53
  - Plants: QK865+
- Analysis of covariance: QA279+
- Analysis of means: QA279+
- Analysis of variance: QA279+
- Analytic geometry: QA551+
- Analytic mechanics: QA801+
- Analytical biochemistry
  - Physiology: QP519.7+
- Analytical chemistry: QD71+
- Analytical geochemistry
  - Geology: QE516.3
- Analytical methods used in the solution of physical problems: QA401+
- Anapidae: QL458.42.A48
- Anaplasmatocaeae
  - Microbiology: QR353.5.A5
- Anarhichadidae: QL638.A54
- Anaspida
  - Paleozoology: QE852.A5
- Anaspidacea: QL444.M317
- Anataeliidae: QL510.3.A5
- Anatidae: QL696.A52
- Anatinidae: QL430.7.A4
- Anatomy
  - Amphibians: QL669
  - Apterygota: QL504
  - Arachnida: QL459
  - Arthropoda: QL434.7
  - Birds: QL697+
  - Blattaria: QL505.8
  - Brachiopoda: QL395.9
  - Bryozoa: QL399
  - Coelenterata: QL378
  - Coleoptera: QL597
  - Crustacea: QL445
  - Ctenophora: QL380.7
  - Dermaptera: QL510.4
  - Diptera: QL538
  - Echinodermata: QL385
  - Embiodoptera: QL539.4
  - Ephemeroptera: QL505.4
  - Fishes: QL639
  - Fungi: QK601
  - Hemiptera: QL524
  - Homoptera: QL528
  - Hornworts: QK563.77
  - Hymenoptera: QL569
  - Insects: QL494
  - Invertebrates: QL363
  - Isoptera: QL529.4
  - Lepidoptera: QL562
  - Lichens: QK581
  - Mallophaga: QL540.4
  - Mammals: QL739
  - Mantodea: QL505.95
  - Mecoptera: QL598.8
  - Megaloptera: QL514.8
  - Mollusca: QL431
  - Myriapoda: QL449.9
  - Neuroptera: QL514
  - Odonata: QL520.4
  - Orthoptera: QL509
  - Plecoptera: QL530.4
  - Porifera: QL374
  - Protozoa: QL369
  - Raphidioptera: QL514.95
  - Reptiles: QL669
  - Siphonaptera: QL599.8
  - Strepsiptera: QL599.4
  - Thysanoptera: QL598.4
  - Trichoptera: QL519
  - Worms: QL393
  - Zoology: QL801+
- Anatomy, Human: QM1+
- Anatomy, Regional
  - Human anatomy: QM531+
  - Zoology: QL950.1+

## INDEX

- Anatomy, Surgical
  - Human anatomy: QM531+
- Anatomy, Topographical
  - Human anatomy: QM531+
  - Zoology: QL950.1+
- Anchovies
  - Zoology: QL638.E55
- Ancistrocladaceae: QK495.A499
- Ancistrogastriidae: QL510.3.A52
- Ancyliidae: QL430.5.A63
- Anderson model
  - Solid state physics: QC176.8.A54
- Andesine: QE391.A57
- Andesite: QE462.A5
- Andorite
  - Mineralogy: QE391.A572
- Andrenidae: QL568.A4
- Androecium: QK658
- Androgens
  - Animal biochemistry: QP572.A5
- Andrognathidae: QL449.65.A6
- Android
  - Computer software
    - Operating systems: QA76.774.A53
- Androstane
  - Animal biochemistry: QP752.A5
- Androstenedione
  - Animal biochemistry: QP572.A52
- Anecdotes
  - Animals: QL791+
- Anechoic chambers
  - Instruments and apparatus: QC668.A54
- Anechuridae: QL510.3.A54
- Anelytrospidae: QL666.L225
- Anemometer
  - Meteorology: QC932
- Aneroid barometers
  - Meteorology: QC896
- Aneuploidy: QH461
- Aneuraceae: QK555.A5
- Aneurine
  - Animal biochemistry: QP772.T5
- Angel sharks: QL638.95.S88
- Angiospermophyta
  - Paleobotany: QE980+
- Angiosperms
  - Botany: QK495.A1+
- Angiotensin converting enzyme
  - Animal biochemistry: QP609.A53
- Angiotensins
  - Animal biochemistry: QP572.A54
- Angle measurement
  - Weights and measures: QC103
- Angles
  - Plane geometry: QA482
- Anguidae: QL666.L2254
- Anguillidae: QL638.A55
- Anguilliformes
  - Paleozoology: QE852.A53
  - Zoology: QL637.9.A5
- Angular correlations
  - Nuclear interactions: QC794.6.A5
- Angular distribution
  - Nuclear fission: QC790.4.A6
  - Nuclear interactions: QC794.6.A5
- Angular momentum
  - Elementary particle physics: QC793.3.A5
  - Physical optics: QC446.3.A54
  - Quantum mechanics: QC174.17.A53
- AngularJS
  - Computer software: QA76.76.A54
- Anhimidae: QL696.A53
- Anhingidae: QL696.P42
- Anhydrite
  - Mineralogy: QE391.A573
- Anhydrobiosis
  - Biology: QH524
  - Microbiology: QR93
- Aniliidae: QL666.O625
- Animal attacks
  - Zoology: QL100.5
- Animal behavior: QL750+
- Animal biochemistry: QP501+
- Animal colonies
  - Invertebrates: QL364.5
- Animal droppings: QL768
- Animal ecophysiology: QP82+
- Animal fetal development: QL971+
- Animal genetics
  - Biology: QH432
- Animal heat
  - Physiology: QP135
- Animal introduction
  - Zoology: QL86
- Animal models
  - Heart: QP112.5.A55
  - Immunology: QR182.2.A54
- Animal pigments
  - Organic chemistry: QD441
- Animal-plant relationships: QH549.5
- Animal populations: QL752
- Animal psychology: QL785+
- Animal signs: QL768
- Animal societies: QL775
- Animal stories: QL791+
- Animal tracks: QL768
- Animal variation
  - Evolution: QH408
- Animal weapons
  - Anatomy: QL940
- Animalcules
  - Invertebrates: QL365
- Animals
  - Behavior: QL750+



## INDEX

- Animals
  - Biochemistry: QH345
  - Comparison with plants: QH347
- Animals and civilization: QL85
- Animals, Dangerous
  - Zoology: QL100+
- Animals in geology: QE625
- Animals, Poisonous
  - Zoology: QL100+
- Animo acids
  - Animal biochemistry: QP551+
- Anion separation
  - Electrochemistry: QD562.A54
- Anions
  - Electric discharge: QC702.7.N4
- Anis: QL696.C83
- Anise tree
  - Botany: QK495.I4
- Anisembiidae: QL539.3.A5
- Anisochromidae: QL638.P84
- Anisophylleaceae: QK495.A55
- Anisoptera
  - Paleozoology: QE832.A53
- Anisotropy
  - Crystallography: QD941
- Annealing
  - Solid state physics: QC176.8.A6
- Annelida: QL391.A6
- Anniellidae: QL666.L2256
- Annonaceae: QK495.A6
- Annual parallax
  - Spherical astronomy: QB167
- Annual rings
  - Trees and shrubs: QK477.2.A6
- Annulariidae: QL430.5.A65
- Annulenes
  - Aromatic compounds: QD341.A83
- Anobiidae: QL596.A5
- Anodic stripping voltammetry
  - Electrochemical analysis: QD116.V64
- Anomalepididae: QL666.O626, QL666.O6265
- Anomalopidae: QL638.A556
- Anomalopsychidae: QL518.A55
- Anomalous dispersion
  - Optics: QC435
- Anomaluridae: QL737.R624
- Anomologidae: QL561.A65
- Anoplogasteridae: QL638.A56
- Anoplopomatidae: QL638.A567
- Anoplura
  - Paleozoology: QE832.A55
  - Zoology: QL570+
- Anorthosite: QE462.A55
- Anostomidae: QL638.A568
- Anostomatidae
  - Zoology: QL508.A56
- Anostraca: QL444.B815
- Anopteridae: QL638.A57
- Anoxemia
  - Metabolism: QP177
- Anseriformes: QL696.A5+
  - Paleozoology: QE872.A6
- Ant thrushes: QL696.P2455
- Antagonistic fungi: QK604.2.A56
- Antarctic Ocean
  - Zoology: QL126.5
- Antarctica
  - Biogeography: QH84.2
  - Ecology: QH84.2
- Antbirds, Typical: QL696.P2816
- Anteaters
  - Zoology: QL737.E24
- Antelopes
  - Anecdotes: QL795.A6
- Antennae
  - Anatomy: QL945.5
- Antennariidae: QL638.A577
- Anthelidae: QL561.A67
- Anthicidae: QL596.A62
- Anthoboscidae: QL568.A48
- Anthoceros: QK563.85.A57
- Anthocerotaceae: QK555.A6
- Anthocoridae: QL523.A5
- Anthocyanins
  - Plant constituent: QK898.A55
- Anthomyiidae: QL537.A5
- Anthomyzidae: QL537.A53
- Anthophoridae: QL568.A53
- Anthozoa: QL377.C5+
  - Paleozoology: QE778
- Anthracene
  - Organic chemistry: QD393
  - Spectra: QC463.A84
- Anthracosauria
  - Paleozoology: QE868.A48
- Anthraquinones
  - Spectra: QC463.A86
- Anthrax
  - Microbiology: QR201.A6
- Anthribidae: QL596.A63
- Anthropometric assessment
  - Nutrition research: QP143.5.A58
- Anti-idiotypic vaccines: QR189.5.A56
- Anti-infective agents
  - Bacterial physiology: QR97.A57
  - Testing: QR69.A56
- Antibiosis: QR99+
- Antibiosis resistance: QR99.5
- Antibiotic testing
  - Microbiology: QR69.A57
- Antibiotics
  - Animal biochemistry: QP801.A63
  - Bacterial physiology: QR97.A58
  - Organic chemistry: QD375+

## INDEX

- Antibodies
  - Immunology: QR186.7+
- Antibody-toxin conjugates: QR185.8.A58
- Anticlines
  - Geology: QE606.3.A58
- Antiferromagnetism
  - Physics: QC761.5
- Antifreeze proteins
  - Animal biochemistry: QP552.A56
- Antigen-antibody reactions
  - Microbiology: QR187.A1+
- Antigen presenting cells: QR185.8.A59
- Antigens
  - Immunology: QR186.5+
- Antigravity: QC178
- Antihemorrhage vitamin
  - Animal biochemistry: QP772.V55
- Antilocapridae: QL737.U52
- Antimatter, Constitution of: QC172+
- Antimatter, Properties of: QC173.28+
- Antimetabolites
  - Animal biochemistry: QP801.A65
- Antimonates
  - Mineralogy: QE389.64
- Antimonides
  - Mineralogy: QE389.2
- Antimony
  - Chemical element: Q1 .S3
- Antimony ores
  - Mineralogy: QE390.2.A58
- Antimutagens: QH468
- Antioxidants
  - Animal biochemistry: QP801.A66
  - Plant constituent: QK898.A57
- Antipernicious anemia vitamin
  - Animal biochemistry: QP772.C9
- Antirickets vitamin
  - Animal biochemistry: QP772.V53
- Antiscurvy vitamin
  - Animal biochemistry: QP772.A8
- Antisense DNA
  - Animal biochemistry: QP624.5.A57
- Antisense RNA
  - Animal biochemistry: QP623.5.A58
- Antisterility vitamin
  - Animal biochemistry: QP772.T6
- Antithrombins: QP93.7.A58
- Antitoxins
  - Animal biochemistry: QP631+
- Antiviral proteins
  - Plant constituent: QK898.A59
- Antivitamins
  - Animal biochemistry: QP801.A67
- Antixerophthalmia vitamin
  - Animal biochemistry: QP772.V5
- Antlike flower beetles: QL596.A62
- Antlions: QL513.M9
- Antpipits: QL696.P2365
- Antrodiaetidae: QL458.42.A5
- Ants
  - Paleozoology: QE832.H9
  - Zoology: QL568.F7
- Anura: QL668.E2+
  - Paleozoology: QE868.A5
- Anyon superconductivity: QC611.98.A58
- Anyons
  - Elementary particle physics: QC793.5.A25+
- Anyphaenidae: QL458.42.A57
- Anystidae: QL458.2.A58
- Aorta
  - Physiology: QP106.2
- Aortic paraganglia
  - Physiology: QP188.A6
- Aortic valve
  - Physiology: QP114.A57
- Aoteidae: QL638.A6
- Apachyidae: QL510.3.A6
- Apatite
  - Mineralogy: QE391.A6
- Aperiodic tilings
  - Discrete geometry: QA640.72
- Apexes
  - Plant anatomy: QK645+
- Aphelinidae: QL568.A55
- Aphididae: QL527.A64
- Aphidiidae: QL568.A57
- Aphids
  - Zoology: QL525+
- Aphodiidae: QL596.A64
- Aphredoderidae: QL638.A63
- Aphrophoridae: QL527.A647
- Apicomplexa: QL368.A16
- Apidae: QL568.A6
- Apioceridae: QL537.A6
- Apiomorphidae: QL527.A65
- APL (Computer program language): QA76.73.A27
- Aplacophora: QL430.1+
  - Paleozoology: QE805
- Aplite: QE462.A63
- Aploactinidae: QL638.A64
- Aplocheilidae: QL638.A642
- Aplochitonidae: QL638.A643
- Aplodactylidae: QL638.A65
- Aplodontidae: QL737.R626
- Aplysiidae: QL430.5.A66
- Apochrysidae: QL513.A6
- Apocynaceae: QK495.A66
- Apoda: QL668.A6+
  - Paleozoology: QE868.A6
- Apodidae: QL696.A552
- Apodiformes: QL696.A55+
- Apogonidae: QL638.A7
- Apolipoproteins
  - Blood constituents: QP99.3.A65

## INDEX

- Aponogetonaceae: QK495.A667
- Apoprogonidae: QL561.A7
- Apostomatida: QL368.A57
- Appetite
  - Physiology: QP136
- AppleScript (Computer program language): QA76.73.A67
- Application program interfaces
  - Computer science: QA76.76.A63
- Application software
  - Computer software: QA76.76.A65
- Applied ethnobotany: QK86.5
- Approximation theory
  - Algebra: QA221+
  - Quantum mechanics: QC174.17.A66
- Apterogynidae: QL568.A7
- Apterodontidae: QL638.A73
- Apterygidae: QL696.A63
  - Paleozoology: QE872.A7
- Apterygiformes: QL696.A6+
- Apterygota
  - Zoology: QL501+
- Aqua ions
  - Electrochemistry: QD562.A75
- Aquaporins
  - Animal biochemistry: QP552.A65
- Aquariums, Freshwater: QL78
- Aquariums, Public: QL78+
- Aquatic biology
  - Biogeography: QH90+
- Aquatic biology as a profession: QH90.45
- Aquatic birds
  - Zoology: QL678.5+
- Aquatic ecology: QH541.5.W3
- Aquatic flora
  - Botany: QK102+
- Aquatic fungi
  - Botany: QK617.8+
- Aquatic insects
  - Zoology: QL472+
- Aquatic microbiology: QR105+
- Aquatic parks
  - Freshwater biology: QH96.75.A1+
- Aquatic plants
  - Botany: QK930+
- Aquatic radioecology: QH543.58+
- Aquatic reptiles: QL665.3+
- Aquatic virology: QR388.5
- Aquatics
  - Plant ecology: QK916
- Aqueous erosion
  - Geology: QE581
- Aqueous solvents
  - Physical chemistry: QD544.3
- Aqueous vapor
  - Meteorology: QC915+
- Aquifoliaceae: QK495.A67
- Arabinoglactan
  - Plant constituent: QK898.A67
- Araceae: QK495.A685
- Arachidonic acid
  - Animal biochemistry: QP752.A7
- Arachnida
  - Paleozoology: QE825+
- Aradidae: QL523.A7
- Aragonite
  - Mineralogy: QE389.61
- Arakelov theory
  - Algebra: QA242.6
- Araliaceae: QK495.A6853
- Aramididae: QL696.G82
- Araneae: QL458.4+
  - Paleozoology: QE826.A6
- Araneida: QL458.4+
  - Paleozoology: QE826.A6
- Araneidae: QL458.42.A7
- Arapaimidae: QL638.O88
- Araucariaceae: QK494.5.A7
- Arboretums
  - Botany: QK479+
- Arbovirus infections
  - Microbiology: QR201.A72
- Arboviruses
  - Virology: QR398
- Arc discharge
  - Electric discharge: QC705
- Arc measures
  - Geodesy: QB291
- Arc spectra
  - Analytical chemistry: QD96.A7
  - Physics: QC454.A7
- Arcellinida: QL368.A63
- Archaean
  - Stratigraphy: QE653.3
- Archaeobacteria: QR82.A69
- Archaeidae: QL458.42.A73
- Archaeogastropoda
  - Paleozoology: QE809.A72
- Archaeognatha: QL503.7.A1+
- Archaeonithes
  - Paleozoology: QE872.A8
- Archiblattidae: QL505.7.A73
- Archigregarinida: QL368.A66
- Architectonicidae: QL430.5.A69
- Architecture, Computer: QA76.9.A73
- Architeuthidae: QL430.3.A73
- Arcidae: QL430.7.A72
  - Paleozoology: QE812.A8
- Arctic Ocean
  - Zoology: QL126
- Arctic regions
  - Biogeography: QH84.1+
- Arcticidae: QL430.7.A74
- Arctiidae: QL561.A8

## INDEX

- Ardeidae: QL696.C52
- Ardeiformes: QL696.C5+
- Area
  - Measurement: QC104.5
- Areas and volumes
  - Surfaces
    - Infinitesimal geometry: QA636
- Arenavirus diseases
  - Microbiology: QR201.A74
- Arenites: QE471.15.A68
- Areolariidae: QL505.7.A74
- Areopodidae: QL527.D44
- Argasidae: QL458.2.A74
- Argentinidae: QL638.A75
- Argentum
  - Chemical element: Q1 .A3
- Argidae: QL568.A77
- Arginase
  - Animal biochemistry: QP609.A7
- Arginine
  - Animal biochemistry: QP562.A7
- Argiopidae: QL458.42.A7
- Argon
  - Chemical element: Q1 .A6
  - Electric discharge: QC711.6.A7
  - Fluid mechanics: QC145.45.A75
- Argyresthiidae: QL561.A84
- Arhynchobatidae: QL638.85.A7
- Arid regions
  - Climatology: QC993.7
  - Ecology: QH541.5.A74
- Arid regions ecology: QH541.5.A74
- Ariidae: QL638.A755
- Arionidae: QL430.5.A7
- Aristolochiaceae: QK495.A688
- Arithmetic: QA101+
  - Preschool and primary education: QA135+
- Arithmetic, Foundations of: QA248+
- Arithmetical algebraic geometry: QA242.5+
- Arixeniidae: QL510.3.A7
- Arkose: QE471.15.A7
- Arm
  - Regional anatomy: QM548
- Armadillos: QL737.E23
- Arminidae: QL430.5.A74
- Armored catfishes: QL638.L785
- Armored scales
  - Zoology: QL527.D5
- Armorheads: QL638.P35
- Aromatic amino acid decarboxylase
  - Animal biochemistry: QP613.A75
- Aromatic compounds
  - Animal biochemistry: QP801.A75
  - Organic chemistry: QD330+
- Arrenuridae: QL458.2.A77
- Arrhenophandiae: QL561.A865
- Arripidae: QL638.A77
- Arrow grass
  - Botany: QK495.J875
- Arrowroot
  - Botany: QK495.M28
- Arrowtooth eels: QL638.D93
- Arrowworms: QL391.C6
- Arsenates
  - Mineralogy: QE389.64
- Arsenic
  - Chemical element: Q1 .A7
  - Effect on plants: QK753.A78
  - Effect on plants and animals: QH545.A77
- Arsenic alloys
  - Analytical chemistry: QD137.A8
- Arsenides
  - Mineralogy: QE389.2
- Art
  - Mathematics teaching aid: QA19.A78
- Artamidae: QL696.P216
- Arteries
  - Human anatomy: QM191
  - Physiology: QP106.2
- Arthrodira
  - Paleozoology: QE852.A7
- Arthropoda
  - Paleozoology: QE815+
  - Zoology: QL434+
- Arthrostraca
  - Paleozoology: QE817.A7
- Articular cartilage
  - Human anatomy: QM142
- Articulata
  - Paleozoology: QE797.A65
- Articulations
  - Anatomy: QL825
  - Human anatomy: QM131+
- Artificial chromosomes
  - Cytology: QH600.15
- Artificial circulation
  - Cardiovascular system: QP110.A7
- Artificial horizons
  - Astronomical instruments: QB115
- Artificial immune systems: QA76.875
- Artificial intelligence
  - Biological research: QH324.25
  - Cybernetics: Q334+
- Artificial satellites in geodesy: QB343
- Artificial satellites in geology: QE33.2.A7
- Artificial selection
  - Plants: QK985
- Artificial substrates
  - Water: QH90.57.A77
- Artiodactyla: QL737.U5+
  - Paleozoology: QE882.U3
- Artists, Botanical: QK98.15+
- Arum
  - Botany: QK495.A685

## INDEX

- Aryloxides
  - Organic chemistry: QD411.8.A47
- Arylsulphatases
  - Animal biochemistry: QP609.A77
- Ascalaphidae: QL513.A7
- Ascaphidae: QL668.E217
- Asclepiadaceae: QK495.A815
- Ascobolaceae: QK623.A8
- Ascomycetes: QK623.A1+
- Ascorbate oxidase
  - Animal biochemistry: QP603.A8
- Ascorbic acid
  - Animal biochemistry: QP772.A8
  - Effect on plants: QK753.V58
  - Plant constituent: QK898.A7
- Ascothoracica: QL444.C527
- Asexual reproduction
  - Biology (General): QH475+
  - Plant physiology: QK826
- Ashinagidae: QL561.A88
- Asian philosophy
  - Physics: QC6.4.A85
- Asian pipe snakes: QL666.O638
- Asilidae: QL537.A85
- Asities: QL696.P2625
- Asparagaceae: QK495.A83
- Asparagine
  - Plant constituent: QK898.A74
- Asparagus: QK495.A83
- Aspartame
  - Animal biochemistry: QP801.A84
- Aspartate aminotransferase
  - Animal biochemistry: QP606.A8
- Aspartic acid
  - Animal biochemistry: QP562.A8
- Aspartic proteinases
  - Animal biochemistry: QP609.A86
- Aspergillois
  - Microbiology: QR201.A85
- Aspergillus
  - Experimental genetics: QH470.A85
- Asphodelaceae: QK495.A835
- Aspiceridae: QL568.A8
- Aspidiaceae: QK524.A65
- Aspleniaceae: QK524.A7
- Aspredinidae: QL638.A78
- Assamiidae: QL458.52.A8
- Assassin bugs: QL523.R4
- Assemblers
  - Electronic computers: QA76.73.A8
- Assembling
  - Electronic computers: QA76.73.A8
- Assembly
  - Genetics: QH450.5
- Assembly languages
  - Electronic computers: QA76.73.A8
- Asses, Wild
  - Anecdotes: QL795.A8
- Assignment problems
  - Mathematical optimization: QA402.6
- Assimilation of nitrogen
  - Phytochemistry: QK867+
- Associative rings and algebras: QA251.5
- Assortment
  - Genetics: QH444
- Astacins
  - Animal biochemistry: QP609.A88
- Astartidae: QL430.7.A8
- Paleozoology: QE812.V45
- Astatine
  - Chemical element: Q1 .A8
- Asterinales: QK623.A93
- Asterioidea: QL384.A8
- Paleozoology: QE783.A7
- Asteroids: QB651+
  - Perturbations: QB377+
- Asterolecaniidae: QL527.A8
- Astiidae: QL537.A88
- Astomatida: QL368.A8
- Astroblepidae: QL638.A785
- Astrogeology
  - Astronomy: QB454+
- Astrolabe, Prismatic: QB328.P7
- Astrolabes: QB85
- Astrology
  - Medieval astronomy: QB25+
- Astrometry: QB807
- Astromineralogy
  - Astronomy: QB455.2
- Astronautics in astronomy: QB136
- Astronautics in meteorology: QC879.4+
- Astronautics in science: Q180.7
- Astronesthidae: QL638.A788
- Astronomical geography: QB630+
- Astronomical globes: QB66
- Astronomical instrument makers: QB84.7+
- Astronomical instruments, Portable: QB105
- Astronomical observatories: QB81+
- Astronomical photographic equipment: QB121.5
- Astronomical photography: QB121+
- Astronomical photometry: QB135
- Astronomical refraction: QB155+
- Astronomical spectroscopy: QB465
- Astronomy: QB1+
- Astronomy as a profession: QB51.5
- Astronomy, Descriptive: QB494.2+
- Astronomy, Millimeter: QB479.4
- Astronomy museums: QB2.A1+
- Astronomy, Theoretical: QB349+
- Astrophysics: QB460+
- Astrophysics, Molecular: QB462.6
- Astrophysics, Nuclear: QB463+
- Astrophysics, Plasma: QB462.7+

## INDEX

- Astrophysics, Radio: QB462.5
- Astrophysics, Relativistic: QB462.65
- Astroseismology: QB812
- Asymptotic giant branch stars: QB843.A89
- Asymptotic theory (Mathematical physics): QC20.7.A85
- AT&T WorldNet: QA76.57.A77
- Ataxites
  - Astronomy: QB757.5.A73
- Ateleopodidae: QL638.A79
- Atelidae: QL737.P915
- Atelopodidae: QL668.E22
- Athalamida: QL368.A85
- Atherinidae: QL638.A8
- Atheriniformes: QL637.9.A8
- Athiliaceae: QK629.A74
- Athyriaceae: QK524.A76
- Athyrididae
  - Paleozoology: QE797.A69
- Atlantidae: QL430.5.A8
- Atlases and charts
  - Astronomy: QB65
- Atmosphere
  - Effect on plants: QK754.4
  - Jupiter (Planet): QB663.A86
  - Mars (Planet): QB643.A86
  - Venus (Planet): QB623.A86
- Atmosphere of the sun: QB528
- Atmosphere, Upper
  - Meteorology: QC878.5+
- Atmospheres
  - Planets: QB603.A85
- Atmospheres in the solar system: QB505
- Atmospheres, Stellar: QB809
- Atmospheric carbon dioxide
  - Meteorology: QC879.8
- Atmospheric chemistry: QC879.6+
- Atmospheric circulation
  - Meteorology: QC880.4.A8
- Atmospheric cosmic rays: QC485.9.A8
- Atmospheric electricity
  - Meteorology: QC960.5+
- Atmospheric ionization: QC966.7.A84
- Atmospheric methane: QC879.85
- Atmospheric ozone: QC879.7+
- Atmospheric physics: QC851+
- Atmospheric pollutants: QC882+
- Atmospheric pressure: QC885+
- Atmospheric pressure and wind: QC934
- Atmospheric radiation: QC912.3
- Atmospheric radioactivity
  - Meteorology: QC913+
- Atmospheric refraction
  - Meteorological optics: QC976.R4
- Atmospheric shells: QC881+
- Atmospheric temperature
  - Meteorology: QC901+
- Atmospheric temperature and wind: QC934.2
- Atmospheric tides: QC883.2.A8
- Atmospheric transmission: QC976.T6
- Atmospheric transparency: QC976.T7
- Atmospherics: QC973.4.A85
- Atolls
  - Geology: QE565+
- Atom cooling
  - Atomic physics: QC173.4.A82
- Atom models
  - Physical chemistry: QD480
- Atom-probe field ion microscopes: QH212.A76
- Atomic beams
  - Atomic physics: QC173.4.A85
- Atomic clusters
  - Atomic physics: QC173.4.M48
- Atomic energy
  - Atmospheric radioactivity: QC913.2.A8
  - Nuclear physics: QC791.9+
  - Physics: QC770+
- Atomic force microscopes: QH212.A78
- Atomic measurements: QC784.5
- Atomic orbitals
  - Physical chemistry: QD461
- Atomic physics: QC170+
- Atomic spectra
  - Analytical chemistry: QD96.A8
- Atomic spectroscopy
  - Physics: QC454.A8
- Atomic structure
  - Atomic physics: QC173.4.A87
  - Physical chemistry: QD461
- Atomic theory
  - Physical chemistry: QD461
- Atomic transition probabilities: QC174.26.A8
- Atomic units: QC784.5
- Atomic warfare
  - Effect on plants and animals: QH545.N83
- Atomic weights
  - Physical chemistry: QD463+
- Atopetholidae: QL449.65.A8
- ATP-binding cassette transporters: QP552.A87
- Atractaspidae: QL666.O627
- Atractoceridae: QL596.A8
- Atrazine
  - Effect on plants: QK753.A79
- Atrial natriuretic peptides
  - Animal biochemistry: QP572.A82
- Atrichornithidae: QL696.P218
- Atrypidae
  - Paleozoology: QE797.A7
- Attachment mechanisms
  - Biology: QH514
- Attaphilidae: QL505.7.A87
- Attelabidae: QL596.A83
- Attention
  - Neurophysiology: QP405
- Atticolidae: QL505.7.A88

## INDEX

- Attidae: QL458.42.S24
- Attractions and potential
  - Analytic mechanics: QA825+
- Attractors
  - Topology: QA614.813
- Atyidae: QL430.5.A85
- Atypidae: QL458.42.A8
- Auchenipteridae: QL638.A83
- Audiovisual aids
  - Botany: QK54+
  - Mathematics: QA18+
  - Science teaching: Q190+
- Auditing
  - Data processing activities: QA76.9.A93
- Audouinellaceae: QK569.A27
- Audubon, John James: QL31.A9
- Auger effect
  - Electric discharge: QC702.7.A9
- Augite
  - Mineralogy: QE391.A8
- Augmented reality
  - Computer science: QA76.9.A94
- Auklets: QL696.C42
- Auks: QL696.C42
- Aulacidae: QL568.A9
- Aulacigastridae: QL537.A9
- Aulopiformes: QL637.9.A93
- Aulopodidae: QL638.A84
- Aulorhynchidae: QL638.A844
- Aulostomidae: QL638.A848
- Auriculales: QK629.A8
- Auriculariaceae: QK629.A8
- Auriculidae: QL430.5.E45
- Aurora australis: QC972.5.A8
- Aurora borealis: QC972.5.B6
- Aurora polaris: QC972.5.B6
- Auroral photography: QC972.P4
- Auroras: QC970+
- Aurum
  - Chemical element: Q1 .A9
- Ausdehnungslehre: QA205
- Australasian treecreepers: QL696.P2354
- Australasian warblers: QL696.P213
- Australian butcherbirds: QL696.P216
- Australian robins: QL696.P2439
- Australian wrens: QL696.P2485
- Austrobaileyaceae: QK495.A9
- Austroperlidae: QL530.3.A9
- Authorship
  - Biology: QH304
  - Chemistry: QD9.15
  - Mathematics teaching aid: QA20.M38
  - Zoology: QL672.6
- Autoclaving
  - Biological research: QH324.9.A88
- Autoimmunity
  - Immunology: QR188.3
- AutoLISP (Computer program language): QA76.73.A84
- Autolysis
  - Antigen-antibody reactions: QR187.A8
- Automata, Conscious: Q325+
- Automatic differentiations
  - Computer software: QA76.76.A98
- Automatic hypothesis formation
  - Computer science: QA76.9.A955
- Automatic theorem proving
  - Computer science: QA76.9.A96
- Automation
  - Analytical chemistry: QD75.4.A8
  - Microbiology: QR69.A88
- Automorphic functions
  - Analysis: QA353.A9
- Autonomic computing: QA76.9.A97
- Autonomic ganglia
  - Neurophysiology: QP368.8
- Autonomic nervous system
  - Neurophysiology: QP368+
- Autoradiographic techniques
  - Ecology: QH541.15.A9
- Autoradiography
  - Analytical biochemistry: QP519.9.A94
  - Biological research: QH324.9.A9
- Autotrophic bacteria: QR88.2
- Autumn
  - Astronomy: QB637.7
- Auxin
  - Effect on plants: QK753.A8
  - Plant constituent: QK898.A8
- Avalanches
  - Meteorology: QC929.A8
- Aviaries: QL677.8
- Aviculariidae: QL458.42.T5
- Avidin
  - Animal biochemistry: QP552.A94
- Avocado
  - Nutrition: QP144.A77
- Avocets
  - Zoology: QL696.C473
- Awards
  - Geology: QE48.6
  - Mathematics: QA20.3
- AWK (Computer program language): QA76.73.A95
- Axiidae: QL561.A93
- Axioms
  - Plane geometry: QA481
- Aye-eyes: QL737.P935
- Azimuth: QB207
- Azo compounds
  - Aliphatic compounds: QD305.A9
  - Aromatic compounds: QD341.A9
- Azo polymers
  - Organic chemistry: QD383.A95
- Azollaceae: QK524.A94
- Azotobacteraceae: QR82.A9

## INDEX

### B

- B cells: QR185.8.B15
- B (Computer program language): QA76.73.B155
- B method
  - Computer science: QA76.9.B22
- B stars: QB843.B12
- Babbitt metal
  - Analytical chemistry: QD137.B3
- Babblers: QL696.P285
- Babesiosis
  - Microbiology: QR201.B318
- Babingtonite
  - Mineralogy: QE391.B2
- Bacillaceae: QR82.B3
- Bacillariaceae: QK569.B15
- Bacillariophyceae: QK569.D54
- Bacillariophyta: QK569.D54
- Bacillary dysentery
  - Microbiology: QR201.D9
- Back propagation
  - Cybernetics: Q325.78
- Back swimmers
  - Zoology: QL523.N6
- Background radiation, Cosmic: QB991.C64
- Backup processing
  - Computer science: QA76.9.B32
- Bacteremia
  - Microbiology: QR201.B32
- Bacteria
  - Microbiology: QR74.8+
  - Micropaleontology: QE719.5
- Bacteria, Autotrophic: QR88.2
- Bacteria, Chemoautotrophic: QR88.7
- Bacterial adhesion: QR96.8
- Bacterial antigens
  - Immunology: QR186.6.B33
- Bacterial biosynthesis: QR88.3
- Bacterial cell surfaces: QR77.35
- Bacterial cell walls
  - Microbiology: QR77.3+
- Bacterial colonies
  - Microbiology: QR79.5
- Bacterial diseases
  - Microbiology: QR201.B34
  - Vaccines: QR189.5.B33
- Bacterial endocarditis
  - Microbiology: QR201.E6
- Bacterial evolution: QR81.7
- Bacterial glycocalyx
  - Microbiology: QR77.5
- Bacterial growth: QR84.5+
- Bacterial irritability: QR96
- Bacterial metabolism: QR88+
- Bacterial motility: QR96
- Bacterial physiology: QR84+
- Bacterial pigments: QR76.7
- Bacterial toxins
  - Animal biochemistry: QP632.B3
- Bacterial vaccines: QR189.5.B33
- Bactericides
  - Bacterial physiology: QR97.B32
- Bacteriocins
  - Microbial metabolism: QR92.B3
- Bacteriolysis
  - Antigen-antibody reactions: QR187.B3
- Bacteriophages
  - Microbiology: QR342+
- Bacteroidaceae: QR82.B35
- Baculoviruses
  - Virology: QR398.5
- Badgers
  - Anecdotes: QL795.B2
  - Zoology: QL737.C25
- Baetidae: QL505.3.B33
- Baetiscidae: QL505.3.B38
- Bagridae: QL638.B13
- Bagworm moths: QL561.P6
- Balaenicipitidae: QL696.C525
- Balaenidae: QL737.C423
- Balaenopteridae: QL737.C424
- Balances (Weights and measures): QC107
- Balanopaceae: QK495.B2
- Balanophoraceae: QK495.B23
- Balantiopsaceae: QK555.B34
- Baleen whales: QL737.C42+
- Balistidae: QL638.B15
- Balitoridae: QL638.B153
- Ball lightning
  - Meteorology: QC966.7.B3
- Balloons
  - Meteorology: QC879.3+
- Balloons in astronomy: QB135.5
- Balsaminaceae: QK495.B25
- Banach algebras: QA326
- Banach spaces: QA322.2
- Banana
  - Botany: QK495.M78
- Band spectra
  - Optics: QC454.M6
- Band theory
  - Magnetism: QC754.2.B35
- Bandicoots: QL737.M47+
- Banding
  - Reptiles and amphibians: QL645.6+
- Bangiaceae: QK569.B2
- Banjoidae: QL638.B155
- Bar-reed
  - Botany: QK495.S745
- Barberry
  - Botany: QK495.B45
- Barbets: QL696.P53
- Barbier reactions
  - Organometallic chemistry: QD411.7.B37



## INDEX

- Barbourisiidae: QL638.B17
- Barite
  - Mineralogy: QE391.B35
- Barium
  - Chemical element: Q1 .B2
- Bark
  - Plant anatomy: QK648
- Bark beetles: QL596.S35
- Barn owls
  - Zoology: QL696.S85
- Barnacles
  - Zoology: QL444.C58
- Baroclinicity
  - Meteorology: QC880.4.B35
- Barometric hypsometry
  - Meteorology: QC895
- Baroreflexes
  - Physiology: QP109
- Barracudas
  - Zoology: QL638.S77
- Bartonella infections
  - Microbiology: QR201.B37
- Bartonellaceae
  - Microbiology: QR353.5.B3
- Barychelidae: QL458.42.B3
- Baryons
  - Elementary particle physics: QC793.5.B32+
- Basal ganglia
  - Neurophysiology: QP383.3+
- Basalt: QE462.B3
- Base measuring
  - Geodetic surveying: QB303
- Basellaceae: QK495.B256
- Bases
  - Theoretical chemistry: QD477
- BASIC (Computer program language): QA76.73.B3
- Basicranium
  - Human embryology: QM695.B36
- Basidiobolus: QK621.B37
- Basidiomycetes: QK628.5+
- Basidiomycota: QK626+
- Basins: QE615+
- Basins, Multiring: QB456
- Basking shark: QL638.95.C37
- Basophils
  - Physiology: QP95.2
- Bataceae: QK495.B33
- Batch processing
  - Computer science: QA76.9.B38
- Batfishes: QL638.O3
- Bathyclupeidae: QL638.B18
- Bathyaconidae: QL638.B2
- Bathyergidae: QL737.R628
- Bathylaconidae: QL638.B23
- Bathylagidae: QL638.B25
- Bathymasteridae: QL638.B26
- Bathynellaceae: QL444.M32
- Bathypteroidae: QL638.B27
- Bathyteuthidae: QL430.3.B3
- Batillariidae: QL430.5.B37
- Batrachia
  - Paleozoology: QE867+
- Batrachoididae: QL638.B3
- Batrachospermaceae: QK569.B25
- Bats
  - Anecdotes: QL795.B3
- Bauxite
  - Petrology: QE471.15.B32
- Bay-star vine
  - Botany: QK495.S353
- Bayesian statistical decision theory
  - Mathematical physics: QC20.7.B38
- Bayesian statistics: QA279.5
- BBC Microcomputer
  - Computers: QA76.8.B35
- Bdellidae: QL458.2.B4
- Be stars: QB843.B25
- Beachrock: QE471.15.B34
- Beaded lacewings: QL513.B4
- BeagleBone Black
  - Computer: QA76.8.B38
- Beaked whales
  - Zoology: QL737.C438
- Beam-foil spectroscopy
  - Physics: QC454.B39
- Beam splitters
  - Optical instruments: QC373.B3
- Beardfishes: QL638.P747
- Bears
  - Anecdotes: QL795.B4
  - Zoology: QL737.C27
- Beast of Exmoor: QL89.2.B43
- Beavers
  - Anecdotes: QL795.B5
  - Zoology: QL737.R632
- Bedbugs
  - Zoology: QL523.C6
- Bee-eaters: QL696.C754
- Beech
  - Botany: QK495.F14
- Beeflies: QL537.B65
- Beefwood
  - Botany: QK495.C27
- Beer
  - Microbiology: QR129.B44
- Bees
  - Anecdotes and stories: QL795.B53
  - Paleozoology: QE832.H9
  - Zoology: QL563+
- Beetles
  - Paleozoology: QE832.C6
  - Zoology: QL571+
- Beggiatoaceae: QR82.B4

## INDEX

- Begonia
  - Botany: QK495.B4
- Begoniaceae: QK495.B4
- Behavior
  - Animals: QL750+
  - Arthropoda: QL434.8
  - Birds: QL698.3
  - Dinosaurs: QE861.6.B44
  - Fishes: QL639.3
  - Hymenoptera: QL569.4
  - Insects: QL496
  - Invertebrates: QL364.2
  - Lepidoptera: QL562.4
  - Mammals: QL739.3+
  - Mollusca: QL431.4
  - Reptiles and amphibians: QL669.5
- Behavior genetics
  - Biology: QH457
- Behavioral embryology: QL962
- Behavioral endocrinology: QP356.45
- Belemnitida
  - Paleozoology: QE807.B4
- Bellflower
  - Botany: QK495.C18
- Bell's theorem (Quantum mechanics): QC174.17.B45
- Belonidae: QL638.B34
- Beloniformes: QL637.9.B36
- Belontiidae: QL638.B347
- Belostomatidae: QL523.B4
- Belyciformes: QL637.9.B4
- Belytidae: QL568.B36
- Bembicidae: QL568.S7
- Bénard cells: QC330.2
- Benitoite
  - Mineralogy: QE391.B5
- Benne
  - Botany: QK495.P42
- Benthos
  - Aquatic biology: QH90.8.B46
  - Freshwater biology: QH96.8.B4
  - Marine biology: QH91.8.B4
- Bentonite: QE471.15.B4
  - Mineralogy: QE391.B55
- Benzene
  - Animal biochemistry: QP801.B5
  - Aromatic compounds: QD341.H9
  - Effect on plants and animals: QH545.B45
  - Spectra: QC463.B4
- Benzimidazoles
  - Animal biochemistry: QP801.B52
- Benzine rings, Condensed
  - Organic chemistry: QD390+
- Benzodiazepines
  - Animal biochemistry: QP801.B53
- Benzoylecgonine
  - Animal biochemistry: QP801.B54
- Benzylaminopurine
  - Effect on plants: QK753.B4
- Beorthidae: QL513.B4
- Beraeidae: QL518.B4
- Berberidaceae: QK495.B45
- Berkeley BSD
  - Computer software
    - Operating systems: QA76.774.B47
- Berkelium
  - Chemical element: Q1 .B55
- Beroida: QL380.5.N83
- Berycidae: QL638.B4
- Beryciformes
  - Paleozoology: QE852.B47
- Beryl
  - Mineralogy: QE391.B6
- Beryllium
  - Chemical element: Q1 .B4
  - Effect on plants and animals: QH545.B47
- Beryllium ores
  - Mineralogy: QE390.2.B46
- Berytidae: QL523.B45
- Bessel functions (Cylindrical harmonics): QA408
- Beta-glucuronidase genes: QH447.8.B46
- Beta lactamases
  - Animal biochemistry: QP609.B46
- Beta particles
  - Elementary particle physics: QC793.5.B42+
- Beta rays
  - Elementary particle physics: QC793.5.B42+
- Betaines
  - Animal biochemistry: QP801.B55
- Betatrons: QC787.B4
- Bethe-ansatz technique
  - Mathematical physics: QC20.7.B47
- Bethylidae: QL568.B4
- Bettongs: QL737.M386
- Betulaceae: QK495.B56
- Bevatrons: QC787.S9
- Beverages
  - Nutrition: QP144.B48
- BGC vaccine: QR189.5.T72
- Bibionidae: QL537.B5
- Bicosoecida: QL368.B5
- Bicycles, All terrain
  - Effect on plants and animals: QH545.A42
- Biddies: QL520.3.C67
- Biela comet: QB723.B5
- Bifurcation theory
  - Differential equations: QA380
  - Mathematical physics: QC20.7.B54
- Big bang theory (Cosmology): QB991.B54
- Big data
  - Computer science: QA76.9.B45
- Bigeyes: QL638.P785
- Bigheadedflies: QL537.P57
- Bignoniaceae: QK495.B62

## INDEX

- Bikes, Mountain
  - Effect on plants and animals: QH545.A42
- Biking, Mountain
  - Effect on plants and animals: QH545.A42
- Bilayer lipid membranes
  - Cytology: QH602
- Bile
  - Physiology: QP197
- Bile acids
  - Animal biochemistry: QP752.B54
- Bile ducts
  - Physiology: QP185.3
- Bile pigments
  - Animal biochemistry: QP671.B5
- Bilinear forms
  - Number theory: QA243
- Bilirubin
  - Animal biochemistry: QP671.B55
- Billfishes: QL638.I88
- Binaries, X-ray: QB830
- Binary system: QA141.4
- Binary systems of stars: QB821+
- Binding, Cooperative
  - Animal biochemistry: QP517.C66
- Binding energy
  - Elementary particle physics: QC793.3.B5
- Binding, Ligand
  - Animal biochemistry: QP517.L54
- Binding, Protein
  - Animal biochemistry: QP517.P76
- Binding sites
  - Animal biochemistry: QP517.B42
- Binocular rivalry
  - Physiology: QP487.5
- Binocular vision
  - Physiology: QP487+
- Binoculars
  - Optical instruments: QC373.B55
- Binomial coefficients: QA161.B48
- Binomial theorem: QA161.B5
- Binucleoside polyphosphates
  - Animal biochemistry: QP625.D56
- Bioacoustics
  - Biology: QH510.5
- Bioactive compounds
  - Animal biochemistry: QP517.B44
  - Plant constituent: QK898.B54
- Biochar
  - Effect on plants and animals: QH545.S63
- Biochemical genetics
  - Plants: QK981.3
- Biochemical markers
  - Genetics: QH438.4.B55
- Biochemical templates
  - Animal biochemistry: QP517.B48
- Biochemistry
  - Organic chemistry: QD415+
- Biochemistry
  - Viruses: QR467
- Biochemistry, Animal: QP501+
- Biochemistry, High pressure
  - Animal biochemistry: QP517.H53
- Biochemistry, Quantum
  - Animal biochemistry: QP517.Q34
- Bioclimatology
  - Ecology: QH543+
- Biocomputers: QA76.884
- Bioconjugates
  - Animal biochemistry: QP517.B49
- Biodegradation
  - Animal biochemistry: QP517.B5
  - Biology: QH530.5
- Biodiversity
  - Aquatic biology: QH90.8.B56
  - Ecology: QH541.15.B56
  - Freshwater biology: QH96.8.B53
  - Marine biology: QH91.8.B6
- Biodiversity conservation
  - Aquatic biology: QH90.8.B56
  - Freshwater biology: QH96.8.B53
  - Marine biology: QH91.8.B6
  - Natural history: QH75+
- Bioelectrochemistry: QP517.B53
- Bioelectronics
  - Biology: QH509.5
- Bioenergetics
  - Animal biochemistry: QP517.B54
  - Biology: QH510
- Bioethics: QH332
- Biofilms
  - Microbiology: QR100.8.B55
- Bioflavonoids
  - Animal biochemistry: QP772.B5
- Biogenic amines
  - Animal biochemistry: QP801.B66
  - Plant constituent: QK898.B56
- Biogeochemical cycles: QH344+
- Biogeochemistry: QH343.7+
- Biogeography: QH84+
- Biogeomorphology
  - Ecology: QH542.5
- Biography
  - Mathematics: QA28+
  - Natural history: QH26+
- Bioinformatics
  - Biological research: QH324.2+
- Biological assay
  - Aquatic biology: QH90.57.B5
  - Ecology: QH541.15.B54
  - Freshwater biology: QH96.8.B5
  - Marine biology: QH91.57.B5
- Biological assessment
  - Aquatic biology: QH90.57.B5
  - Freshwater biology: QH96.8.B5

## INDEX

- Biological assessment
  - Marine biology: QH91.57.B5
- Biological charge transfer
  - Animal biochemistry: QP517.C49
- Biological chemistry
  - Marine biology: QH91.8.B5
- Biological control systems: QH508
- Biological diversity
  - Aquatic biology: QH90.8.B56
  - Ecology: QH541.15.B56
  - Freshwater biology: QH96.8.B53
  - Marine biology: QH91.8.B6
- Biological illustration: QH318
- Biological indicators: QH541.15.I5
- Biological invasions: QH353
  - Marine biology: QH91.8.B63
- Biological literature: QH303.6
- Biological models
  - Biological research: QH324.8
- Biological pest control agents
  - Effect on plants and animals: QH545.B55
- Biological productivity
  - Ecology: QH541.3
- Biological resource centers: QH324.15
- Biological response modifiers
  - Immunology: QR185.8.B54
- Biological transport
  - Biology: QH509
- Biologically-inspired computing: QA76.9.N37
- Biology: QH301+
  - Philosophy: QH331
- Biology as a profession: QH314
- Biology, Forensic: QH313.5.F67
- Biology, Freshwater: QH96+
- Biology, Human: QP34+
- Biology, Marine: QH91+
- Bioluminescence
  - Cytology: QH641
- Bioluminescence assay
  - Analytical biochemistry: QP519.9.B55
  - Microbiology: QR69.B53
- Biomagnetism
  - Biology: QH504
  - Physiological effect: QP82.2.M3
- Biomathematics: QH323.5
- Biomechanics
  - Biology: QH513
- Biometry: QH323.5
- Biomimetic polymers
  - Organic chemistry: QD382.B47
- Biomimetics
  - Animal biochemistry: QP517.B56
- Biomineralization
  - Biology: QH512
- Biomolecules, Fossil
  - Animal biochemistry: QP517.F66
- Bionics
  - Cybernetics: Q317+
- Biophotometry
  - Biological research: QH324.9.B48
- Biophysical labeling
  - Biological research: QH324.9.B49
- Biophysics
  - Biology: QH505
- Biopolymers
  - Animal biochemistry: QP801.B69
- Biorhythms
  - Biology: QH527
  - Developmental physiology: QP84.6
- Biosphere
  - Biology: QH343.4
- Biosphere reserves: QH75+
- Biosynthesis
  - Animal biochemistry: QP517.B57
  - Bacterial physiology: QR88.3
- Biotelemetry
  - Biological research: QH324.9.B5
- Biothermodynamics
  - Animal biochemistry: QP517.T48
- Biotin
  - Animal biochemistry: QP772.B55
- Biotite
  - Mineralogy: QE391.B64
- Biotransformation
  - Animal biochemistry: QP517.B58
- Bipartite graphs
  - Algebra: QA166.14
- Bipedidae: QL666.L194
- Biphenyl compounds
  - Spectra: QC463.B5
- Biquadratic equations: QA215
- Birch
  - Botany: QK495.B56
- Birch mice: QL737.R648
- Bird areas: QL676.5+
- Bird attracting: QL676.5+
- Bird banding: QL677.5
- Bird declines
  - Effect on plants and animals: QH545.B57
- Bird exhibitions: QL677.8
- Bird feeders: QL676.5+
- Bird food: QL698.4
- Bird protection
  - Zoology: QL676.5+
- Bird refuges: QL676.5+
- Bird watching: QL677.5
- Birdcall whistles: QL676.5+
- Birdfood: QL698.4
- Birdhouses: QL676.5+
- Birding sites: QL677.5
- Birds
  - Anecdotes and stories: QL795.B57
  - Paleozoology: QE871+

## INDEX

- Birds
  - Zoology: QL671+
- Birds' eggs: QL675
- Birds' nests: QL675
- Birds of paradise: QL696.P26
- Birds of prey
  - Zoology: QL677.78
- Birth, Multiple
  - Embryology: QL971+
- Bismuth
  - Chemical element: Q1 .B5
- Bison
  - Anecdotes and stories: QL795.B6
- Bithyniidae: QL430.5.B58
- Biting lice
  - Paleozoology: QE832.M34
- Biting midges: QL537.C37
- Bittacidae: QL598.7.B5
- Bitterns
  - Zoology: QL696.C52
- Bivalvia
  - Paleozoology: QE811+
- Bivectors: QC174.26.B58
- Bixaceae: QK495.B63
- BL Lacertae objects: QB858.35
- Blaberidae: QL505.7.B4
- Black holes: QB843.B55
- Blackbirds: QL696.P245
- Blackbody radiation: QC484
- Blackflies: QL537.S55
- Bladder
  - Anatomy: QL874
  - Human anatomy: QM411
  - Physiology: QP250.5
- Bladdernut
  - Botany: QK495.S77
- Bladderwort
  - Botany: QK495.L53
- Blaniulidae: QL449.65.B4
- Blasticotomidae: QL568.B5
- Blastobasidae: QL561.B4
- Blastocladiaceae: QK621.B6
- Blastocystida: QL368.B55
- Blastoidea
  - Paleozoology: QE783.B6
- Blastomycosis
  - Microbiology: QR201.B55
- Blattaria
  - Paleozoology: QE832.B55
  - Zoology: QL505.5+
- Blattellidae: QL505.7.B48
- Blattidae: QL505.7.B485
- Blennies: QL638.C63
- Blenniidae: QL638.B6
- Blepharoceridae: QL537.B56
- Blind snakes: QL666.O685
- Blister beetles: QL596.M38
- Blizzards
  - Meteorology: QC926.3+
- Block copolymers
  - Organic chemistry: QD382.B5
- Block designs
  - Algebra: QA166.3
- Blockchains
  - Databases: QA76.9.B56
- Blocking
  - Meteorology: QC880.4.B55
- Blocks (Toys)
  - Mathematics teaching aid: QA19.B55
- Blood
  - Microbiology: QR171.B5
  - Physiology: QP91+
- Blood-brain barrier
  - Human histology: QM575.5
  - Neurophysiology: QP375.5
- Blood chemistry
  - Physiology: QP93+
- Blood corpuscles
  - Physiology: QP94+
- Blood flow, Regional cerebral
  - Physiology: QP108.5.C4
- Blood formation
  - Physiology: QP92
- Blood group antigens
  - Immunology: QP98
- Blood groups
  - Physiology: QP98
- Blood platelets
  - Physiology: QP94+
- Blood pressure measurement: QP105.2
- Blood sugar
  - Blood constituents: QP99.3.B5
- Blood vessels
  - Anatomy: QL835
  - Human histology: QM570
- Blood volume
  - Cardiovascular system: QP110.B5
- Bloodsucking animals: QL756.55
- Bloodwort
  - Botany: QK495.H15
- Blooms
  - Cyanobacteria: QR99.69.B55
- Blowflies: QL537.C24
- Blowpipe analysis
  - Analytical chemistry: QD87
- Blue-pincushion
  - Botany: QK495.B786
- Blue stragglers (Stars): QB843.B57
- Blue variables, Luminous: QB843.L85
- Bluefishes: QL638.P778
- Boarfishes: QL638.C2
- Boas
  - Zoology: QL666.O63
- Boatbilled herons: QL696.C536

## INDEX

- Bobtail squid
  - Zoology: QL430.3.S49
- Body cavities: QL950.95
- Body fluids
  - Physiology: QP90.5
- Body temperature
  - Physiology: QP135
- Boehmite
  - Mineralogy: QE391.B73
- Bog ecology: QH541.5.B63
- Bogmoss
  - Botany: QK495.M3
- Bogs
  - Biogeography: QH87.3
  - Botany: QK938.M3
  - Ecology: QH541.5.B63
- Bohrium
  - Chemical element: Q1 .B46
- Boidae: QL666.O63
- Boiling points
  - Thermochemistry: QD518
- Bolbitiaceae: QK629.B58
- Boletaceae: QK629.B6
- Boletales: QK629.B63
- Bolitophilidae: QL537.B64
- Bolometers
  - Physics: QC338.5.B6
- Bolometry
  - Stars: QB817
- Boltzmann's distribution law: QC175.16.B6
- Bolyeriidae: QL666.O633
- Bombacaceae: QK495.B7
- Bombardment
  - Electric discharge: QC702.7.B65
- Bombesin
  - Animal biochemistry: QP632.B64
- Bombinatoridae: QL668.E224
- Bombycidae: QL561.B6
- Bombycillidae: QL696.P22
- Bombyliidae: QL537.B65
- Bonded magnets: QC757.8
- Bonding, Hydrogen
  - Animal biochemistry: QP517.H93
- Bone
  - Physiology: QP88.2
- Bone conduction
  - Neurophysiology: QP469.3
- Bone marrow
  - Human histology: QM569
  - Physiology: QP92
- Bone morphogenetic proteins
  - Animal biochemistry: QP552.B65
- Bonefishes: QL638.A335
- Bones of the extremities
  - Human anatomy: QM117
- Boninite: QE462.B65
- Bonnetmouths: QL638.E53
- Bony fishes
  - By family: QL638.A+
  - By order: QL637.9.A+
- Bony tissues
  - Human histology: QM569
- Boobies
  - Zoology: QL696.P48
- Book lice
  - Paleozoology: QE832.P83
- Book scorpions: QL458.6+
- Boolean algebra: QA10.3
- Boopiidae: QL540.3.B6
- Bootstrap theory
  - Elementary particle physics: QC793.3.B6
- Bora
  - Meteorology: QC939.B67
- Borage
  - Botany: QK495.B73
- Boraginaceae: QK495.B73
- Borates
  - Mineralogy: QE389.65
  - Spectra: QC464.B67
- Borax
  - Effect on plants: QK753.B6
- Boreal forests
  - Ecology: QH541.5.T3
- Boreidae: QL598.7.B6
- Borings
  - Geology: QE33.2.B6
- Borna disease
  - Microbiology: QR201.B66
- Boron
  - Chemical element: Q1 .B1
  - Effect on plants: QK753.B7
  - Effect on plants and animals: QH545.B6
- Boron ores
  - Mineralogy: QE390.2.B67
- Boron organic polymers
  - Organic chemistry: QD383.B67
- Borreliosis
  - Microbiology: QR201.R45
- Bose algebras (Mathematical physics): QC20.7.B58
- Bose-Einstein condensation: QC175.47.B65
- Bose-Einstein gas: QC175.16.B65
- Bosons
  - Elementary particle physics: QC793.5.B62+
- Bosses
  - Geology: QE611+
- Bostrichidae: QL596.B5
- Botanical chemistry: QK861+
- Botanical gardens
  - Botany: QK71+
- Botanical illustration: QK98.15+
- Botanizers: QK46.5.B66
- Botany: QK1+
- Botany as a profession: QK50.5
- Botflies: QL537.O4

## INDEX

- Bothidae: QL638.B65
- Bothriideridae: QL596.B52
- Bothriuridae: QL458.72.B6
- Botryogen
  - Mineralogy: QE391.B75
- Botulinum toxin
  - Animal biochemistry: QP632.B66
- Botulism
  - Microbiology: QR201.B7
- Bound herbaria
  - Botany: QK89
- Bound states (Quantum mechanics): QC174.17.B6
- Boundary layer
  - Meteorology: QC880.4.B65
- Boundary value problems
  - Differential equations: QA379
  - Mathematical physics: QC20.7.B6
- Bovichthyidae: QL638.B67
- Bovidae: QL737.U53
- Bovine spongiform encephalopathy
  - Microbiology: QR201.B74
- Bowerbirds: QL696.P2675
- Bowfins: QL638.A37
- Box
  - Botany: QK495.B85
- Bøggildite
  - Mineralogy: QE391.B7
- Brachionichthyidae: QL638.B7
- Brachiopoda
  - Paleozoology: QE796+
  - Zoology: QL395+
- Brachodidae: QL561.B68
- Brachycentridae: QL518.B7
- Brachychthoniidae: QL458.2.B7
- Brachyladidae: QL510.3.B7
- Brachypauropodidae: QL449.75.B7
- Brachypteraciidae: QL696.C725
- Brachypteridae: QL596.B54
- Brachyspectridae: QL596.B58
- Brachytheciaceae: QK539.B68
- Brackish water
  - Aquatic biology: QH95.9
  - Zoology: QL139
- Brackish water radioecology: QH543.9
  - Ecology: QH543.8
- Brackish waters
  - Ecology: QH541.5.E8
- Braconidae: QL568.B8
- Bradybaenidae: QL430.5.B73
- Bradynobaenidae: QL568.B83
- Brahmaeidae: QL561.B7
- Braid theory
  - Topology: QA612.23
- Braided rivers
  - Ecology: QH541.5.S7
- Brain
  - Anatomy: QL933+
- Brain
  - Human anatomy: QM455
  - Human embryology: QM695.B7
  - Invertebrates: QL935
  - Neurophysiology: QP376+
  - Vertebrates: QL937
- Brain chemistry: QP356.3
- Brain drain: Q150+
- Brain stem
  - Anatomy: QL938.B73
  - Neurophysiology: QP376.8+
- Brain stimulation techniques
  - Neurophysiology: QP388
- Bramidae: QL638.B8
- Branched chain amino acids
  - Animal biochemistry: QP562.B73
  - Microbial metabolism: QR92.B7
- Branched polymers
  - Organic chemistry: QD382.B73
- Branchiae
  - Anatomy: QL846
- Branching
  - Plant anatomy: QK646+
- Branching processes
  - Markov processes: QA274.76
- Branchiopoda: QL444.B8+
  - Paleozoology: QE817.B7
- Branchiosauridae
  - Paleozoology: QE868.B7
- Branchiostegidae: QL638.B83
- Branchiura: QL444.B9
- Brannerite
  - Mineralogy: QE391.B78
- Brassinosteroids
  - Plant constituent: QK898.B85
- Brathinidae: QL596.B6
- Braulidae: QL537.B7
- Braydopodidae: QL737.E22
- Brazil nut
  - Botany: QK495.L42
- Bread
  - Microbiology: QR119
- Breakage
  - Chromosomal mutation: QH462.B7
- Breakdown
  - Dielectrics: QC585.7.B7
- Breakdown of spark
  - Electric discharge: QC703.5
  - Electric discharge through gases: QC711.8.B7
- Breccia: QE471.15.B7
- Bregmacerotidae: QL638.B85
- Bremsstrahlung
  - Physics: QC484.2+
- Brentidae: QL596.B65
- Bretschneideraceae: QK495.B75
- Brevicipitidae: QL668.E225
- Brightest stars: QB843.B75

## INDEX

- Brightness of the moon: QB588
- Brines, Oil field
  - Effect on plants and animals: QH545.O47
- Bristles
  - Anatomy: QL942
- Brittle stars (Ophiuroidea): QL384.O6
- Broadband dielectric spectroscopy
  - Physics: QC454.B74
- Broadbills: QL696.P245
- Bromelia
  - Botany: QK495.B76
- Bromeliaceae: QK495.B76
- Bromides
  - Mineralogy: QE389.4
- Bromination
  - Organic chemistry: QD281.B7
- Bromine
  - Chemical element: Q1 .B7
- Bromodeoxyuridine
  - Animal biochemistry: QP625.B76
- Bromoviridae
  - Virology: QR398.6
- Bronchi
  - Anatomy: QL854
  - Human anatomy: QM257
- Brooks comet: QB723.B7
- Broomrape
  - Botany: QK495.O74
- Brorsen comet (I): QB723.B8
- Brown adipose tissue
  - Physiology: QP88.15
- Brown dwarfs: QB843.B77
- Brown lacewings: QL513.H5
- Brownian motion
  - Atomic physics: QC184
- Brownian motion processes
  - Markov processes: QA274.75
- Browsing
  - Animal feeding behavior: QL756.56
- Brucellaceae: QR82.B95
- Brucellosis
  - Microbiology: QR201.B8
- Bruchidae: QL596.B7
- Brucite
  - Mineralogy: QE391.B82
- Brunelliaceae: QK495.B78
- Bruniaceae: QK495.B785
- Brunoniaceae: QK495.B786
- Brushes of crystals
  - Physical optics: QC445
- Brushfooted butterflies: QL561.N9
- Bryaceae: QK539.B7
- Bryology: QK532.4+
- Bryophyta: QK532.4+
  - Paleobotany: QE959
- Bryopteridaceae: QK555.B7
- Bryozoa
  - Paleozoology: QE798+
  - Zoology: QL396+
- BSD, Free
  - Operating systems: QA76.774.F74
- Bubble chambers: QC787.B8
- Buccinidae: QL430.5.B75
  - Paleozoology: QE809.B8
- Bucconidae: QL696.P52
- Bucerotidae: QL696.C729
- Buchiidae
  - Paleozoology: QE812.B83
- Buckwheat
  - Botany: QK495.P78
- Budding
  - Asexual reproduction: QH479
- Buddlejaceae: QK495.B7865
- Buds
  - Plant anatomy: QK645+
- Buffaloes
  - Anecdotes and stories: QL795.B8
- Buffalopox virus
  - Virology: QR405.2.B83
- Buffer solutions
  - Animal biochemistry: QP519.9.B84
- Buffer zones
  - Ecology: QH541.15.B84
- Bufonidae: QL668.E227
- Bugs
  - Zoology: QL521+
- Bulbs
  - Plant anatomy: QK646+
- Bulbuls: QL696.P268
- Bulges in galaxies: QB857.5.B84
- Bulimulidae: QL430.5.B8
- Bulinidae: QL430.5.B84
- Bulletin boards
  - Computer science: QA76.9.B84
  - Mathematics teaching aid: QA19.B8
- Bullhead sharks: QL638.95.H4
- Bumblebees: QL568.A6
- Buntings
  - Zoology: QL696.P2438
- Bunyaviruses
  - Microbiology: QR398.7
- Buprestidae: QL596.B8
- Burbles
  - Fluid dynamics: QA925.5
- Burhinidae: QL696.C428
- Burmanniaceae: QK495.B79
- Burned land: QK938.B8
- Burrower bugs
  - Zoology: QL523.C9
- Burrowing animals: QL756.15
- Burrowing behavior: QL756.15
- Burryamyidae: QL737.M347



## INDEX

Bursae mucosae  
   Human anatomy: QM485  
 Burseraceae: QK495.B8  
 Bursts  
   Cosmic ray physics: QC485.8.B8  
   Gamma ray astronomy: QB471.7.B85  
 Bushtits: QL696.P2135  
 Bustardquails: QL696.G89  
 Bustards: QL696.G86  
 Busyconidae: QL430.5.B87  
 Buthidae: QL458.72.B8  
 Butomaceae: QK495.B83  
 Buttefishes: QL638.S87  
 Buttercup  
   Botany: QK495.R215  
 Butterflies  
   Anecdotes and stories: QL795.B85  
   Paleozoology: QE832.L5  
   Zoology: QL541+  
 Butterfly attracting: QL544.6  
 Butterfly bush  
   Botany: QK495.L785  
 Butterfly gardens: QL544.6  
 Butterflyfishes: QL638.C48  
 Buttocks  
   Anatomy: QL950.39  
 Bux turtles: QL666.C547  
 Buxaceae: QK495.B85  
 Buxbaumiaceae: QK539.B97  
 Byblidaceae: QK495.B9  
 Byrrhidae: QL596.B97  
 Bythoscopidae: QL527.B9  
 Byturidae: QL596.B98

### C

C\*-algebras (Mathematical physics): QC20.7.C14  
 C (Computer program language): QA76.73.C15,  
   QA76.73.C153, QA76.73.C154  
 C-functions  
   Analysis: QA353.C17  
 C-reactive protein  
   Animal biochemistry: QP552.C17  
 Cacao  
   Botany: QK495.S8  
 Cactaceae: QK495.C11  
 Cactus  
   Botany: QK495.C11  
 Caddisflies  
   Paleozoology: QE832.T8  
   Zoology: QL516+  
 Cadmium  
   Chemical element: Q1 .C3  
   Effect on plants: QK753.C16  
   Effect on plants and animals: QH545.C3  
 Cadmium arsenide  
   Semiconductor physics: QC611.8.C34

Caecidae: QL430.5.C18  
 Caecilians: QL668.A6+  
 Caeciliidae: QL668.A63  
 Caeculidae: QL458.2.C28  
 Caenidae: QL505.3.C3  
 Caenolestidae: QL737.M463  
 Caesalpiniaceae: QK495.C1153  
 Caesionidae: QL638.C12  
 Caffeine  
   Animal biochemistry: QP801.C24  
   Genetic effects: QH465.C3  
 Caimans  
   Zoology: QL666.C925  
 Calamitales  
   Paleobotany: QE965  
 Calamoceratidae: QL518.C3  
 Calanoida: QL444.C72  
 Calcarea: QL373.C2  
 Calcispongiae: QL373.C2  
 Calcite  
   Mineralogy: QE391.C2  
 Calcitonin  
   Animal biochemistry: QP572.C3  
 Calcitonin gene-related peptide  
   Animal biochemistry: QP552.C22  
 Calcium  
   Chemical element: Q1 .C2  
   Effect on plants: QK753.C2  
   Microbial metabolism: QR92.C27  
   Plant constituent: QK898.C2  
 Calcium-binding proteins  
   Animal biochemistry: QP552.C24  
 Calcium fluoride  
   Spectra: QC464.C34  
 Calcium regulating hormones  
   Animal biochemistry: QP572.C33  
 Calcretes: QE471.15.C27  
 Calculation of orbits (General): QB355+  
 Calculators  
   Mathematics teaching aid: QA20.C34  
 Calculus: QA303+  
 Calculus of differences  
   Analysis: QA431  
 Calculus of tensors  
   Mathematical physics: QC20.7.C28  
 Calculus of variations: QA315+  
   Mathematical physics: QC20.7.C3  
 Calculus on manifolds  
   Topology: QA614.5+  
 Calderas  
   Microbiology: QR107  
 Calibration  
   Analytical chemistry: QD75.4.C34  
 Caliciales: QK585.C28  
 Caliciviruses  
   Virology: QR398.8

## INDEX

- California group viruses
  - Virology: QR416.C35
- Californium
  - Chemical element: Q1 .C45
- Caligoida: QL444.C79
- Callaeidae: QL696.P224
- Callaphididae: QL527.C35
- Callichthyidae: QL638.C14
- Callidulidae: QL561.C24
- Callimiconidae: QL737.P925
- Callionymidae: QL638.C15
- Callipharixenidae: QL599.3.C32
- Calliphoridae: QL537.C24
- Callipodidae: QL449.65.C24
- Callitrichaceae: QK495.C1155
- Callitrichidae: QL737.P925
- Callyssozoa
  - Zoology: QL400+
- Calmodulin
  - Animal biochemistry: QP552.C28
- Caloplacaceae: QK585.C3
- Calopterygidae: QL520.3.C3
- Calorimeters
  - Physics: QC290+
- Calorimetry
  - Analytical biochemistry: QP519.9.C34
  - Biological research: QH324.9.C3
  - Physics: QC290+
- Calpain
  - Animal biochemistry: QP609.C26
- Calreticulin
  - Animal biochemistry: QP552.C29
- Calutrons: QC787.C3
- Calycanthaceae: QK495.C15
- Calyceraceae: QK495.C17
- Calyptraeidae: QL430.5.C22
- Calyx: QK656
- Camaenidae: QL430.5.C25
- Cambalidae: QL449.65.C25
- Cambrian
  - Paleobotany: QE916
  - Paleontology: QE726
  - Stratigraphy: QE656
- Camelidae: QL737.U54
- Camels
  - Zoology: QL737.U54
- Campanulaceae: QK495.C18
- Campephagidae: QL696.P225
- Campfires
  - Effect on plants and animals: QH545.C34
- Camphors
  - Biochemistry: QD416+
- Campodeidae: QL503.4.C3
- Campylobacter infections
  - Microbiology: QR201.C25
- Campylobacter pylori infections
  - Microbiology: QR201.H44
- Canaceidae: QL537.C25
- Canal ecology: QH541.5.C24
- Canal rays
  - Electric discharge: QC710+
- Canals
  - Ecology: QH541.5.C24
  - Effect on plants and animals: QH545.C35
- Cancellariidae: QL430.5.C26
- Cancer
  - Microbiology: QR201.T84
- Candidiasis
  - Microbiology: QR201.C27
- Cane rats: QL737.R686
- Canellaceae: QK495.C182
- Canidae: QL737.C22
- Canine parvovirus
  - Virology: QR408.2.C35
- Canna
  - Botany: QK495.C196
- Cannabaceae: QK495.C194
- Cannabis
  - Animal biochemistry: QP801.C27
- Cannaceae: QK495.C196
- Canned foods
  - Microbiology: QR123
- Cannibalism
  - Animals: QL756.57
- Canopies, Plant: QK924.5
- Cantharellaceae: QK629.C3
- Cantharellales: QK629.C33
- Cantharidae: QL596.C15
- Canthyloscelidae: QL537.C26
- Capillaries
  - Physiology: QP106.6
- Capillarity
  - Atomic physics: QC183
- Capillary electrophoresis
  - Animal biochemistry: QP519.9.C36
- Capillary liquid chromatography
  - Animal biochemistry: QP519.9.C37
- Capitonidae: QL696.P53
- Capniidae: QL530.3.C3
- Capnodiaceae: QK623.C36
- Caponiidae: QL458.42.C3
- Capparidaceae: QK495.C198
- Caprifoliaceae: QK495.C199
- Caprimulgidae: QL696.C23
- Caprimulgiformes: QL696.C2+
- Caproidae: QL638.C2
- Capromyidae: QL737.R63
- Capsid proteins
  - Viruses: QR453
- Capsidae: QL523.M5
- Capsids
  - Viruses: QR453
- Capsules
  - Microbiology: QR77.5

## INDEX

- Captorhinidae
  - Paleozoology: QE862.C36
- Capture of the moon by the earth: QB392.C3
- Capuchin monkeys: QL737.P925
- Capybara: QL737.R662
- Carabidae: QL596.C2
- Caraboctonidae: QL458.72.C27
- Caracanthidae: QL638.C23
- Caracaras (Birds): QL696.F34
- Carangidae: QL638.C25
- Carapidae: QL638.C26
- Carbanions
  - Aliphatic compounds: QD305.C3
- Carbohydrates
  - Animal biochemistry: QP701+
  - Immunology: QR186.6.C37
  - Microbial metabolism: QR92.C3
  - Organic chemistry: QD320+
  - Plant constituent: QK898.C3
  - Radiation chemistry: QD651.C37
  - Spectra: QC463.C3
- Carbolic acid
  - Animal biochemistry: QP801.C3
- Carbolines
  - Animal biochemistry: QP801.C3115
- Carbon
  - Chemical element: Q1 .C1
  - Geochemistry: QE516.C37
- Carbon cycle: QH344+
- Carbon dioxide
  - Bacterial physiology: QR97.C3
  - Blood constituents: QP99.3.C3
  - Effect on plants: QK753.C3
  - Microbial metabolism: QR92.C33
  - Photosynthesis: QK882
  - Spectra: QC464.C37
- Carbon disulfide
  - Spectra: QC464.C375
- Carbon electrodes: QD572.C37
- Carbon isotopes
  - Effect on plants and animals: QH545.C37
- Carbon sequestration
  - Geochemistry: QE516.C37
- Carbonate dehydratase
  - Animal biochemistry: QP613.C37
- Carbonate rocks: QE471.15.C3
- Carbonates
  - Mineralogy: QE389.61
- Carbonatites: QE462.C36
- Carbonic anhydrase
  - Animal biochemistry: QP613.C37
- Carboniferous
  - Paleobotany: QE915, QE919+
  - Paleontology: QE729+
  - Stratigraphy: QE671+
- Carbonium ions
  - Aliphatic compounds: QD305.C3
- Carbonyl compounds
  - Aliphatic compounds: QD305.A6
  - Aromatic compounds: QD341.A6
- Carboxylase
  - Animal biochemistry: QP613.P9
- Carboxylic acids
  - Animal biochemistry: QP801.C312
- Carboxypeptidase
  - Animal biochemistry: QP609.C3
- Carcharhinidae: QL638.95.C3
- Carcharhiniformes: QL638.94.C37
- Carchariidae: QL638.95.O3
- Carcharocles megalodon
  - Cryptozoology: QL89.2.C37
- Carcinophoridae: QL510.3.C37
- Cardiac arrest
  - Physiology: QP114.A75
- Cardiac dynamics
  - Physiology: QP113
- Cardiidae: QL430.7.C2
  - Paleozoology: QE812.C3
- Cardinalfishes: QL638.A7
- Cardiogenic reflexes
  - Physiology: QP114.C37
- Cardiography: QP112.5.C3
- Cardiopteridaceae: QK495.C1995
- Cardiopulmonary system
  - Physiology: QP119+
- Cardiovascular sound
  - Physiology: QP113.6
- Cardiovascular system
  - Human embryology: QM695.C37
  - Physiology: QP101+
- Carditidae: QL430.7.C24
  - Paleozoology: QE812.C35
- Carettochelyidae: QL666.C52
- Cariamidae: QL696.G827
- Caricaceae: QK495.C1997
- Caristiidae: QL638.C265
- Carnidae: QL537.C27
- Carnitine
  - Animal biochemistry: QP772.C3
- Carnitine acyltransferases
  - Animal biochemistry: QP606.C37
- Carnivora: QL737.C2+
  - Paleozoology: QE882.C15
- Carnivorous plants
  - Plant ecology: QK917
- Carnosine
  - Animal biochemistry: QP552.C3
- Carotenes
  - Animal biochemistry: QP671.C3
- Carotenoids
  - Animal biochemistry: QP671.C35
  - Plant constituent: QK898.C34
- Carotid gland
  - Anatomy: QL868

## INDEX

- Carotid gland
  - Human anatomy: QM371
- Carotin
  - Animal biochemistry: QP671.C3
  - Plant constituent: QK898.C35
- Carotinoids
  - Animal biochemistry: QP671.C35
- Carp
  - Zoology: QL638.C94
- Carpenterworm moths: QL561.C6
- Carpet sharks: QL638.94.O74
- Carpoglyphidae: QL458.2.C3
- Carposinidae: QL561.C3
- Carrier proteins
  - Animal biochemistry: QP552.C34
- Carrion beetles: QL596.S5
- Cartilage, Articular
  - Human anatomy: QM142
- Cartilaginous fishes: QL638.6+
- Cartilaginous tissues
  - Human histology: QM567
- Caryocaraceae: QK495.C2
- Caryophyllaceae: QK495.C24
- Case-based reasoning
  - Artificial intelligence: Q338.8
- Casebearer moths: QL561.C58
- Casein
  - Animal biochemistry: QP552.C35
- Caseinolytic proteases
  - Animal biochemistry: QP609.C34
- Caseyidae: QL449.65.C28
- Cashew
  - Botany: QK495.A498
- Cassidae: QL430.5.C3
- Cassididae: QL596.C5
- Cassiopeium
  - Chemical element: Q1 .L8
- Cassiterite
  - Mineralogy: QE391.C25
- Cassowaries: QL696.C33
- Castniidae: QL561.C35
- Castoridae: QL737.R632
- Casuariidae: QL696.C33
- Casuariiformes: QL696.C3+
  - Paleozoology: QE872.C3
- Casuarinaceae: QK495.C27
- Cat sharks: QL638.95.S38
- Cataclysmic variable stars: QB837.5
- Catalase
  - Animal biochemistry: QP603.C3
- Catalogs and collections
  - Mammals: QL708.2
- Catalogs, Computer software: QA76.753
- Catalpa
  - Botany: QK495.B62
- Catalysis
  - Organic chemistry: QD281.C3
- Catalysis
  - Physical chemistry: QD505
- Catalytic RNA
  - Animal biochemistry: QP623.5.C36
- Catamblyrhynchidae: QL696.P228
- Cataphoresis
  - Microbiology: QR69.C3
- Catastrophes
  - Mathematical physics: QC20.7.C36
  - Topology: QA614.58
- Catechol estrogens
  - Animal biochemistry: QP572.C36
- Catechol oxidase
  - Animal biochemistry: QP603.D5
- Catecholamines
  - Animal biochemistry: QP801.C33
- Categories
  - Homological algebra: QA169
- Catenary
  - Analytic mechanics: QA835
- Cathartidae: QL696.C53
- Cathepsin
  - Animal biochemistry: QP609.C35
- Cathode rays
  - Electric discharge: QC710+
- Cathodoluminescence
  - Radiation physics: QC479.5
- Catopochrotidae: QL596.C28
- Catostomidae: QL638.C27
- Cats
  - Laboratory manuals: QL813.C38
  - Zoology: QL737.C23
- Cats, Wild
  - Anecdotes and stories: QL795.C2
- Cattail
  - Botany: QK495.T9
- Cattle, Wild
  - Anecdotes and stories: QL795.C3
- Caudata: QL668.C2+
  - Paleozoology: QE868.C2
- Caulerpaceae: QK569.C37
- Caulophrynidae: QL638.C28
- Causality
  - Physics: QC6.4.C3
- Causation
  - Philosophy of science: Q175.32.C38
- Cave ecology: QH541.5.C3
- Cavefishes: QL638.A366
- Caves
  - Biogeography: QH89
  - Ecology: QH541.5.C3
  - Plant ecology: QK938.C3
  - Zoology: QL117
- Cavies
  - Zoology: QL737.R634
- Caviidae: QL737.R634

## INDEX

- Cavities
  - Fluid dynamics: QA924
  - Fluid mechanics: QC158
- Cavity-nesting birds
  - Zoology: QL677.79.C38
- Cavity-ringdown spectroscopy
  - Analytical chemistry: QD96.A2
- Cavolinidae: QL430.5.C35
- Cayley graphs
  - Algebra: QA166.145
- Cbl proteins
  - Biochemistry: QP552.C38
- CD antigens: QR186.6.C42
- CD23 antigen: QR186.6.C42
- CD26 antigen: QR186.6.C42
- Cebidae: QL737.P925
- Cebrionidae: QL596.C3
- Cecidomyiidae: QL537.C33
- Cecidosetidae: QL561.C4
- Ceilometer: QC923
- Celadonite
  - Mineralogy: QE391.C3
- Celastraceae: QK495.C385
- Celestial mechanics: QB349+
- Celestial sphere: QB147
- Celestite
  - Mineralogy: QE391.C32
- Cell adhesion molecules
  - Animal biochemistry: QP552.C42
- Cell aging: QH608
- Cell compartmentation: QH604.3
- Cell complexes
  - Topology: QA613+
- Cell culture
  - Cytology: QH585.2+
- Cell cycle
  - Microbiology: QR73.7
- Cell death: QH671
- Cell differentiation
  - Cytology: QH607+
  - Embryology: QL963.5
- Cell division
  - Cytology: QH605+
- Cell fractionation
  - Cytology: QH585.5.C43
- Cell fusion
  - Genetics: QH451
- Cell growth
  - Cytology: QH604.7
- Cell hybridization
  - Genetics: QH451
- Cell immobilization
  - Cytology: QH585.5.I45
- Cell ingestion: QH634
- Cell interaction
  - Cytology: QH604.2
  - Microbiology: QR96.5
- Cell junctions
  - Cytology: QH603.C4
- Cell lines
  - Cytology: QH585.4+
- Cell membranes
  - Cytology: QH601+
  - Microbiology: QR77
- Cell metabolism: QH634.5
- Cell pathology: QH671
- Cell populations
  - Cytology: QH587+
- Cell proliferation
  - Cytology: QH604.7
- Cell receptors
  - Cytology: QH603.C43
- Cell regulation
  - Cytology: QH604+
- Cell respiration: QH633
- Cell separation
  - Cytology: QH585.5.C44
- Cell surface antigens
  - Immunology: QR186.6.C44
- Cell walls
  - Bacteria: QR77.3+
- Cells, Cardiac
  - Physiology: QP114.C44
- Cells, Chromaffin
  - Physiology: QP188.C35
- Cells, Electrolytic
  - Electrochemistry: QD568
- Cells, Nerve
  - Anatomy: QL931
- Cellular automata
  - Algebra: QA267.5.C45
- Cellular control mechanisms
  - Endocrine glands: QP187.3.C44
- Cellular immunity: QR185.5
- Cellular osmosis
  - Cytology: QH615
- Cellular repair mechanisms
  - Cytology: QH609
- Cellular signal transduction
  - Animal biochemistry: QP517.C45
- Cellulase
  - Animal biochemistry: QP609.C37
- Cellulose
  - Organic chemistry: QD323
  - Plant constituent: QK898.C42
- Cellulose 1,4-beta-cellobiosidase
  - Animal biochemistry: QP609.C38
- Cellulose microorganisms: QR160
- Celtium
  - Chemical element: Q1.H5
- Celyphidae: QL537.C35
- Cenozoic
  - Paleobotany: QE925+
  - Paleontology: QE735+

## INDEX

- Cenozoic
  - Stratigraphy: QE690+
- Census
  - Birds: QL677.5
- Census taking
  - Reptiles and amphibians: QL645.6+
- Center of mass
  - Analytic mechanics: QA839
- Centers of plant diversity: QK46.5.D58
- Centipedes: QL449.5+
- Central nervous system
  - Anatomy: QL933+
  - Neurophysiology: QP370+
- Central projection: QA511+
- Centrales: QK569.C39
- Centrarchidae: QL638.C3
- Centrifugation
  - Animal biochemistry: QP519.9.C44
  - Biological research: QH324.9.C4
- Centrifuges
  - Chemical laboratories: QD54.C4
- Centriole
  - Cytology: QH597
- Centriscidae: QL638.C32
- Centrohelida: QL368.C4
- Centrolenidae: QL668.E23
- Centrolepidaceae: QK495.C39
- Centrolophidae: QL638.C326
- Centromere
  - Cytology: QH600.2
- Centrophoridae: QL638.95.C36
- Centrophrynidae: QL638.C33
- Centropomidae: QL638.C34
- Centrosome
  - Cytology: QH597
- Cephalaspidomorphi: QL638.18+
- Cephalocarida: QL444.C4
- Cephalochordata: QL611
  - Paleozoology: QE840.5
- Cephaloidae: QL596.C37
- Cephalopoda: QL430.2+
  - Paleozoology: QE806+
- Cephalosporin
  - Organic chemistry: QD377.C4
- Cephalotaceae: QK495.C395
- Cephalotaxaceae: QK494.5.C4
- Cephidae: QL568.C373
- Cepolidae: QL638.C347
- Cerambycidae: QL596.C4
- Ceramiaceae: QK569.C4
- Ceramic superconductors: QC611.98.C47
- Ceramides
  - Animal biochemistry: QP752.C37
- Ceraphronidae: QL568.C375
- Ceratiidae: QL638.C35
- Ceratiomyxaceae: QK635.C4
- Ceratobatrachidae: QL668.E232
- Ceratocanthidae: QL596.C415
- Ceratodontidae: QL638.C356
- Ceratopeidae
  - Paleozoology: QE809.C4
- Ceratophillidae: QL599.7.C47
- Ceratophyllaceae: QK495.C4
- Ceratopogonidae: QL537.C37
- Ceratothripidae: QL598.3.C4
- Cerceridae: QL568.C377
- Cercidiphyllaceae: QK495.C43
- Cercomegistidae: QL458.2.C37
- Cercophanidae: QL561.C42
- Cercopidae: QL527.C4
- Cercopithecidae: QL737.P93
- Cereals
  - Microbiology: QR119
- Cerebellum
  - Neurophysiology: QP379
- Cerebral circulation
  - Physiology: QP108.5.C4
- Cerebral cortex
  - Anatomy: QL938.C46
- Cerebral dominance
  - Neurophysiology: QP385.5
- Cerebral hemispheres
  - Neurophysiology: QP381+
- Cerebral ventricles
  - Anatomy: QL938.C47
- Cerebrin
  - Animal biochemistry: QP801.C4
- Cerebrosides
  - Animal biochemistry: QP752.C4
- Cerebrospinal fluid
  - Neurophysiology: QP375
- Cerebrospinal fluid proteins
  - Animal biochemistry: QP552.C45
- Cerebrospinal nerves
  - Neurophysiology: QP366+
- Cerebrum
  - Neurophysiology: QP381+
- Ceres
  - Dwarf planets: QB705
- Cerionidae: QL430.5.C38
- Cerithiidae: QL430.5.C4
- Cerithiopsidae: QL430.5.C43
- Cerium
  - Chemical element: Q1 .C4
- Cermatobiidae: QL449.55.C4
- Cerococcidae: QL527.C43
- Ceromidae: QL458.82.C4
- Cerophytidae: QL596.C42
- Ceroplastidae: QL537.C376
- Cerrados
  - Ecology: QH541.5.P7
- Certhiidae: QL696.P23
- Certification
  - Data processing personnel: QA76.3

## INDEX

- Certification
  - Software: QA76.76.C47
- Cervidae: QL737.U55
- Cesium
  - Chemical element: Q1 .C8
- Cestida: QL380.5.T42
- Cetacea
  - Paleozoology: QE882.C5
  - Zoology: QL737.C4+
- Cetomimidae: QL638.C36
- Cetomimiformes: QL637.9.C35
- Cetoniidae: QL596.C43
- Cetopsidae: QL638.C37
- Cetorhinidae: QL638.95.C37, QL638.95.L3
- Chachalacas: QL696.G23
- Chacidae: QL638.C385
- Chactidae: QL458.72.C4
- Chaenopsidae: QL638.C4
- Chaerilidae: QL458.72.C45
- Chaetangiaceae: QK569.C44
- Chaetodactylidae: QL458.2.C39
- Chaetodontidae: QL638.C48
- Chaetognatha: QL391.C6
- Chaetomiaceae: QK623.C53
- Chaetophoraceae: QK569.C45
- Chaetophorales: QK569.C455
- Chagas' disease
  - Microbiology: QR201.C29
- Chains and flexible surfaces
  - Analytic mechanics: QA835
- Chalcididae: QL568.C4
- Chalcocite
  - Mineralogy: QE391.C35
- Chalcogenides
  - Inorganic chemistry: QD169.C5
  - Superconductors: QC611.98.C53
- Chalcopyrite
  - Semiconductor physics: QC611.8.C45
- Chalk ecology: QK938.L5
- Chalones
  - Animal biochemistry: QP572.C47
- Chalybite
  - Mineralogy: QE391.C38
- Chamaeidae: QL696.P234
- Chamaeleontidae: QL666.L23
- Chamaemyiidae: QL537.C4
- Chameleons: QL666.L23
- Chamidae: QL430.7.C53
- Chamois
  - Anecdotes and stories: QL795.C5
- Chamosite
  - Mineralogy: QE391.C392
- Champ (Monster): QL89.2.C53
- Champsodontidae: QL638.C483
- Change of state
  - Physics: QC301+
- Changes, Climatic: QC902.8+
- Chanidae: QL638.C484
- Channeling
  - Solid state physics: QC176.8.C45
- Channichthyidae: QL638.C485
- Channidae: QL638.C486
- Chaoboridae: QL537.C43
- Chaos
  - Physical optics: QC446.3.C45
  - Quantum mechanics: QC174.17.C45
- Chaotic behavior
  - Geology: QE33.2.C48
- Chaotic behavior in systems: Q172.5.C45
  - Astrophysics: QB466.C45
- Chaotic processes
  - Physiology: QP33.6.C48
- Chaparral
  - Ecology: QH541.5.C5
- Chaparral ecology: QH541.5.C5
- Chapuisiidae: QL596.C45
- Characeae: QK569.C47
  - Paleontology: QE955
- Characiaceae: QK569.C48
- Characidae: QL638.C5
- Characiformes: QL637.9.C38
- Characins: QL638.C5
- Character sums
  - Number theory
    - Algebra: QA246.7+
- Characteristic classes
  - Differential topology: QA613.618
- Charadriidae: QL696.C43
- Charadriiformes: QL696.C4+
- Charge coupled devices
  - Astronomical electronics: QB127.4
- Charge transfer
  - Animal biochemistry: QP517.C49
- Charideidae: QL561.C44
- Charipidae: QL568.C44
- Charm
  - Elementary particle physics: QC793.3.C53
- Charnockite: QE462.C5
- Charoite
  - Mineralogy: QE391.C396
- Charonidae: QL458.32.C4
- Charophyta: QK569.C483
- Charts
  - Mathematics teaching aid: QA19.C45
- Charts and atlases
  - Astronomy: QB65
- Chattonellaceae: QK569.C484
- Chaudhuriidae: QL638.C53
- Chauliodontidae: QL638.C534
- Chaunacidae: QL638.C5344
- Checkered beetles: QL596.C62
- Cheetahs
  - Anecdotes and stories: QL795.C54
- Cheilodactylidae: QL638.C536

## INDEX

- Cheilostomata: QL398.C5
  - Paleozoology: QE799.C5
- Cheimarrhichthyidae: QL638.C5365
- Cheirogaleidae: QL737.P933
- Chelates
  - Effect on plants: QK753.C58
  - Physical chemistry: QD474
  - Spectra: QC463.C5
- Chelicerata
  - Paleozoology: QE825+
- Chelidae: QL666.C535
- Cheliduridae: QL510.3.C43
- Chelisoichidae: QL510.3.C48
- Chelodesmidae: QL449.65.C37
- Chelonariidae: QL596.C46
- Chelonethida: QL458.6+
- Chelonia: QL666.C5+
  - Paleozoology: QE862.C5
- Cheloniidae: QL666.C536
- Chelydridae: QL666.C539
- Chemical affinity
  - Physical chemistry: QD505.5
- Chemical agents
  - Effect on cells: QH650+
- Chemical agents affecting plants: QK746+
- Chemical analysis
  - Rocks: QE438
- Chemical apparatus: QD53+
- Chemical bonds, Laws of: QD461
- Chemical combination, Laws of: QD461
- Chemical compound models
  - Physical chemistry: QD480
- Chemical compound structure
  - Physical chemistry: QD471
- Chemical dosimetry
  - Radiation chemistry: QD643.C5
- Chemical ecology
  - Ecology: QH541.15.C44
- Chemical effects
  - Heart physiology: QP114.C5
- Chemical elements
  - Classification: QD467
  - Effect on plants and animals: QH545.C47
  - Inorganic chemistry: QD181.A+
  - Physical chemistry: QD466+
- Chemical embryology: QL963
- Chemical equilibrium
  - Physical chemistry: QD503
- Chemical kinetics: QD502+
- Chemical kinetics, Nonlinear: QD502.2
- Chemical laboratories: QD51+
- Chemical literature: QD8.5
- Chemical manipulation: QD61+
- Chemical mechanisms: QD502+
- Chemical microscopy: QH221
- Chemical properties
  - Cells: QH611+
- Chemical reactions
  - Physical chemistry: QD501+
- Chemical reactions, Oscillating: QD502.2
- Chemical reactivity
  - Physical chemistry: QD505.5
- Chemical senses
  - Physiology: QP455+
- Chemical warfare
  - Effect on plants and animals: QH545.C48
- Chemical weapons
  - Effect on plants and animals: QH545.C48
- Chemicals
  - Bacterial physiology: QR97.C5
  - Effect on cells: QH659
  - Genetic effects: QH465.C5
- Chemiluminescence
  - Animal biochemistry: QP517.C54
  - Physical chemistry: QD505.8
- Chemiluminescence immunoassay
  - Antigen-antibody reactions: QR187.C48
- Cheminformatics: QD39.3.E46
- Chemistry: QD1+
  - Superconductors: QC611.97.C54
- Chemistry, Analytical: QD71+
- Chemistry as a profession: QD39.5
- Chemistry, Excited state: QD461.5
- Chemistry, Inorganic: QD146+
- Chemistry, Microbiological: QR148
- Chemistry, Mineralogical: QE371
- Chemistry of the air: QD163
- Chemistry, Organic: QD241+
- Chemistry, Quantum: QD462+
- Chemistry recreations: QD38
- Chemistry, Solid state: QD478
- Chemistry, Surface
  - Animal biochemistry: QP517.S87
- Chemoautotrophic bacteria: QR88.7
- Chemogenomics
  - Genetics: QH438.4.C45
- Chemokines: QR185.8.C45
- Chemometrics
  - Analytical chemistry: QD75.4.C45
- Chemoreceptors
  - Physiology: QP455+
- Chemosphere: QC881.2.C4
- Chemotaxis
  - Immunology: QR187.4
- Chemotaxonomy
  - Botany: QK95.4
- Chenopodiaceae: QK495.C46
- Chermidae: QL527.P88
- Chernetidae: QL458.62.C37
  - Paleozoology: QE826.C5
- Chert: QE471.15.C4
  - Mineralogy: QE391.C4
- Chevrotains: QL737.U595



## INDEX

- Chewing lice
  - Zoology: QL540+
- Cheyletidae: QL458.2.C4
- Chi-square test: QA277.3
- Chiasmodontidae: QL638.C54
- Chickadees: QL696.P2615
- Chickenpox vaccine: QR189.5.C45
- Chicle
  - Botany: QK495.S2
- Child anatomy: QM24.5
- Children
  - Anatomy: QM24.5
- Children and computers: QA76.9.C659
- Children's software
  - Computer science: QA76.76.C54
- Chiliniidae: QL430.5.C49
- Chilodontidae: QL638.C544
- Chilopoda: QL449.5+
  - Paleozoology: QE829.C5
- Chimaeras: QL638.75.C4
- Chimaeridae: QL638.75.C4
- Chimaeriformes: QL638.7+
  - Paleozoology: QE852.C48
- Chimpanzees
  - Anecdotes and stories: QL795.C57
- Chinchillas
  - Zoology: QL737.R636
- Chinchillidae: QL737.R636
- Chinguetti meteorite: QB756.C45
- Chinook
  - Meteorology: QC939.F6
- Chionididae: QL696.C435
- Chirality
  - Animal biochemistry: QP517.C57
  - Elementary particle physics: QC793.3.C54
- Chiromyzidae: QL537.C455
- Chironemidae: QL638.C547
- Chironomidae: QL537.C456
- Chiroptera: QL737.C5+
- Chirothripoididae: QL598.3.C5
- Chitin
  - Animal biochemistry: QP702.C5
- Chitinase
  - Animal biochemistry: QP609.C39
- Chitonidae: QL430.14.C47
- Chitons: QL430.13+
- Chlamisidae: QL596.C48
- Chlamydia infections
  - Microbiology: QR201.C47
- Chlamydiaceae: QR82.C35
- Chlamydomonadaceae: QK569.C486
- Chlamydoselachidae: QL638.95.C4
- Chlidanotidae: QL561.C46
- Chloranthaceae: QK495.C47
- Chlorellaceae: QK569.C49
- Chlorides
  - Effect on plants: QK753.C6
- Chlorides
  - Mineralogy: QE389.4
  - Plant constituent: QK898.C44
- Chlorinated aromatic compounds
  - Microbial metabolism: QR92.C55
- Chlorination
  - Organic chemistry: QD281.C5
- Chlorine
  - Chemical element: Q1 .C5
  - Plant constituent: QK898.C45
- Chlorite
  - Mineralogy: QE391.C5
- Chlorobiaceae: QR82.C4
- Chlorococcales: QK569.C496
- Chlorococcaceae: QK569.C494
- Chlorocyphidae: QL520.3.C4
- Chloroform
  - Effect on plants and animals: QH545.C5
- Chloromonadida: QL368.C48
- Chloromycetin
  - Organic chemistry: QD377.C5
- Chloroperlidae: QL530.3.C45
- Chlorophenols
  - Animal biochemistry: QP801.C48
- Chlorophenoxyacetic acid
  - Effect on plants: QK753.C62
- Chlorophthalmidae: QL638.C549
- Chlorophyll
  - Animal biochemistry: QP671.C45
  - Plant constituent: QK898.C5
  - Spectra: QC463.C54
- Chlorophyta: QK569.C6
- Chloropidae: QL537.C46
- Chloroplast DNA
  - Plant constituent: QK898.C52
- Chloropseidae: QL696.P2344
- Choanephoraceae: QK621.C48
- Choanoflagellata: QL368.C5
- Choanoflagellates: QL368.C5
- Choanoflagellida: QL368.C5
- Chocolate
  - Nutrition: QP144.C46
- Cholecalciferol
  - Effect on plants and animals: QH545.C52
- Cholecystokinin
  - Animal biochemistry: QP572.C5
- Cholera
  - Microbiology: QR201.C5
- Cholesterin
  - Animal biochemistry: QP752.C5
- Cholesterol
  - Animal biochemistry: QP752.C5
- Cholesterol hydroxylase
  - Animal biochemistry: QP603.C45
- Cholesterol oxides
  - Animal biochemistry: QP752.C53

## INDEX

- Cholic acid
  - Animal biochemistry: QP752.C55
- Choline
  - Animal biochemistry: QP772.C5
- Choline acetylase
  - Animal biochemistry: QP606.C45
- Cholinesterase
  - Animal biochemistry: QP609.C4
- Chondrichthyes: QL638.6+
  - Paleozoology: QE852.C52
- Chondrites: QB758.5.C46
- Chondrodite
  - Mineralogy: QE391.C6
- Chondrodontidae
  - Paleozoology: QE812.C5
- Chondrogenesis
  - Embryology: QL979.5
- Chondroitin sulfates
  - Animal biochemistry: QP702.C55
- Chondropomatidae: QL430.5.C53
- Chonotrichida: QL368.C54
- Chordata
  - Paleozoology: QE840.5+
  - Zoology: QL605+
- Chordeumidae: QL449.65.C4
- Choreutidae: QL561.C47
- Chorion
  - Embryology: QL977
- Chorionic gonadotropins
  - Animal biochemistry: QP572.C53
- Chorisoneuridae: QL505.7.C4
- Choroid plexus
  - Neurophysiology: QP375.5
- Chiroptera
  - Paleozoology: QE882.C8
- Chromaffin cells
  - Physiology: QP188.C35
- Chroman
  - Spectra: QC463.C57
- Chromates
  - Mineralogy: QE389.66
- Chromatiaceae: QR82.C45
- Chromatin
  - Cytology: QH599
- Chromatographic analysis
  - Analytical chemistry: QD79.C4+
- Chromatography
  - Animal biochemistry: QP519.9.C47
  - Organic chemistry: QD272.C4+
  - Qualitative analysis: QD98.C4
  - Quantitative analysis: QD117.C5+
- Chromatophores
  - Cytology: QH607.2.C47
- Chromebook: QA76.8.C46
- Chromite
  - Mineralogy: QE391.C65
- Chromium
  - Chemical element: Q1 .C7
  - Effect on plants and animals: QH545.C54
- Chromium-iron-nickel alloys
  - Analytical chemistry: QD137.C5
- Chromodorididae: QL430.5.C56
- Chromogranins
  - Animal biochemistry: QP552.C48
- Chromophyta: QK569.C617
- Chromosomal mutation
  - Genetics: QH462.A1+
- Chromosomes
  - Cytology: QH600+
- Chromosphere of the sun: QB528
- Chronobiology
  - Biology: QH527
  - Developmental physiology: QP84.6
- Chronographs
  - Astronomical instruments: QB107
- Chronometers
  - Astronomical instruments: QB107
- Chrysididae: QL568.C47
- Chrysobalanaceae: QK495.C48
- Chrysoberyl
  - Mineralogy: QE391.C657
- Chrysochloridae: QL737.A352
- Chrysomelidae: QL596.C5
- Chrysomonadida: QL368.C57
- Chrysophyceae: QK569.C62
- Chrysophytes: QK569.C622
- Chrysopidae: QL513.C5
- Chrysopolomidae: QL561.C48
- Chrysotile
  - Mineralogy: QE391.C67
- Chthoniidae: QL458.62.C4
- Chupacabras: QL89.2.C57
- Chymosin
  - Animal biochemistry: QP609.R4
- Chymotrypsin
  - Animal biochemistry: QP609.C45
- Chyromyiidae: QL537.C49
- Chytridiaceae: QK621.C5
- Cicadas
  - Zoology: QL525+
- Cicadellidae: QL527.C49
- Cicadidae: QL527.C5
- Cichlidae: QL638.C55
- Cichlids: QL638.C55
- Ciconiidae: QL696.C535
- Ciconiiformes: QL696.C5+
  - Paleozoology: QE872.C53
- Cigarette smoke
  - Analytical chemistry: QD139.C53
- Ciidae: QL596.C6
- Ciliary motion
  - Physiology: QP310.C5
- Ciliata: QL368.A22

## INDEX

- Ciliophora: QL368.A2
- Cimbicidae: QL568.C5
- Cimicidae: QL523.C6
- Cimolesta
  - Paleozoology: QE882.C84
- Cincindelidae: QL596.C56
- Cinclidae: QL696.P235
- Cipher and telegraph codes
  - Meteorology: QC872
- Circle
  - Analytic geometry: QA557
  - Plane geometry: QA484
- Circle squaring
  - Elementary geometry: QA467
- Circular dichroism
  - Animal biochemistry: QP519.9.C57
- Circular DNA
  - Animal biochemistry: QP624.5.C57
- Circular functions
  - Analysis: QA342
- Circulation of blood
  - Physiology: QP101+
- Circumstellar matter: QB792
- Cirrhitidae: QL638.C577
- Cirripedia: QL444.C5+
  - Paleozoology: QE817.C5
- Cirrus clouds: QC921.43.C57
- Cistaceae: QK495.C5
- Cistelidae: QL596.C213
- Citharidae: QL638.C578
- Citharinidae: QL638.C5785
- Citheroniidae: QL561.C5
- Cities
  - Ecology: QH541.5.C6
- Cities and towns
  - Effect on plants and animals: QH545.C545
- Citizen participation
  - Nature conservation: QH77.3.C57
  - Scientific research: Q180.55.C54
- Citrates
  - Animal biochemistry: QP801.C63
- Citric acid
  - Animal biochemistry: QP801.C65
  - Microbial metabolism: QR92.C57
- Citrulline
  - Animal biochemistry: QP563.C5
- Citrus
  - Botany: QK495.R98
- Citrus fruit
  - Nutrition: QP144.C58
- Civets
  - Zoology: QL737.C28
- Civilization and computers: QA76.9.C66
- Cixiidae: QL527.C55
- Cladocera: QL444.B83
- Cladoniaceae: QK585.C6
- Cladophoraceae: QK569.C624
- Clam shrimps: QL444.B834
- Clambidae: QL596.C617
- Clams: QL430.6+
- Clariidae: QL638.C6
- Classical logical systems
  - Mathematical logic: QA9.25+
- Classical statistical mechanics: QC174.86.C6
- Classification
  - Chemical elements: QD467
  - Climate: QC980.4
  - Fungi: QK603.2+
  - Invertebrates: QL362.5
  - Mollusca: QL406
  - Natural history: QH83
  - Sciences: Q177
  - Scientific research: Q180.55.C55
  - Zoology: QL351+
- Classification of curves and surfaces: QA603
- Clastoptera: QL527.C58
- Clathrate compounds
  - Physical chemistry: QD474
- Clausiliidae: QL430.5.C57
- Clastrum
  - Neurophysiology: QP383.6
- Clavariaceae: QK629.C6
- Clavicipitaceae: QK623.C55
- Clavicipitales: QK623.C57
- Clavigeridae: QL596.C618
- Clay
  - Petrology: QE471.3
- Clear air turbulence
  - Meteorology: QC880.4.T8
- Clearwing moths: QL561.S47
- Cleavage
  - Crystallography: QD933
  - Geology: QE605
- Cleidogonidae: QL449.65.C5
- Cleonymidae: QL568.C55
- Cleptidae: QL568.C56
- Cleridae: QL596.C62
- Clethraceae: QK495.C55
- Click beetles: QL596.E4
- Client/server computing
  - Computer science: QA76.9.C55
- Clifford algebras: QA199
  - Mathematical physics: QC20.7.C55
- Cliffs
  - Ecology: QH541.5.C62
- Climacteridae: QL696.P2354
- Climate
  - Effect on plants: QK754.5+
  - Mars (Planet): QB643.C55
  - Physiological effect: QP82.2.C5
- Climate zones
  - Meteorology: QC981.8.Z6
- Climatic changes: QC902.8+

## INDEX

- Climatic extremes
  - Meteorology: QC981.8.C53
- Climatic periodicity
  - Meteorology: QC883.2.C5
- Climatic variations
  - Paleoclimatology: QC884.2.C5
- Climatology: QC851+
- Climbing
  - Physiology: QP310.C55
- Climbing plants
  - Physiology: QK773
- Clines
  - Evolution: QH409
- Clingfishes: QL638.G6
- Clinidae: QL638.C63
- Clinids: QL638.C63
- Clionidae: QL430.5.C6
- Clipper (Computer program language): QA76.73.C56
- Clocks
  - Astronomical instruments: QB107
- Cloning
  - Genetics: QH442.2
- Closed ecological systems
  - Ecology: QH541.15.C55
- Clostridium diseases
  - Microbiology: QR201.C54
- Clothes moths: QL561.T55
- Clothodidae: QL539.3.C4
- Cloud chambers: QC787.C56
- Cloud computing
  - Digital computers: QA76.585
- Cloud droplets
  - Cloud physics: QC921.6.C6
- Cloud forest plants
  - Botany: QK938.C55
- Cloud forests
  - Ecology: QH541.5.C63
- Cloud forms
  - Meteorology: QC921.4+
- Cloud modification
  - Meteorology: QC926.6+
- Cloud physics: QC921.48+
- Cloud seeding
  - Meteorology: QC928.6
- Clouds
  - Meteorology: QC920.7+
- Clouds, Magellanic: QB858.5.M33
- Clouds, Molecular: QB791.4
- Clubionidae: QL458.42.C4
- Clubtails: QL520.3.G6
- Clupeidae: QL638.C64
- Clupeiformes: QL637.9.C4
  - Paleozoology: QE852.C55
- Clusiidae: QL537.C5
- Cluster analysis
  - Mathematical statistics: QA278.55
- Clusterin
  - Animal biochemistry: QP552.C56
- Clusters
  - Stellar spectroscopy: QB891
- Clusters of galaxies: QB858.7+
- Clusters of stars: QB853+
- Clycerin
  - Animal biochemistry: QP752.G55
- Clymeniida
  - Paleozoology: QE807.C65
- Clythiidae: QL537.P63
- Clytridae: QL596.C64
- Cnemospathidae: QL537.C56
- Cneoraceae: QK495.C555
- Cnidaria
  - Paleozoology: QE777+
  - Zoology: QL375+
- Cnidosporida: QL368.A18
- Coagulase
  - Animal biochemistry: QP609.C6
- Coagulation of blood
  - Physiology: QP93.5+
- Coal
  - Microbiology: QR53.5.C73
- Coal balls
  - Paleobotany: QE990
- Coal-fired power plants
  - Effect on plants and animals: QH545.C57
- Coastal ecology: QH541.5.C65
- Coasts
  - Ecology: QH541.5.C65
  - Plant ecology: QK938.C6
- Coated vesicles
  - Cytology: QH603.C63
- Cobalt
  - Chemical element: Q1 .C6
  - Effect on plants: QK753.C67
  - Magnetic materials: QC766.C6
  - Plant constituent: QK898.C6
- Cobalt ores
  - Mineralogy: QE390.2.C58
- Cobias: QL638.R3
- Cobitidae: QL638.C647
- COBOL (Computer program language): QA76.73.C25
- Cobordism
  - Differential topology: QA613.66
- Cobras: QL666.O64
- Cobweb weavers: QL458.42.T54
- Coca
  - Animal biochemistry: QP801.C68
  - Botany: QK495.E82
- Cocaethylene
  - Animal biochemistry: QP801.C67
- Cocaine
  - Animal biochemistry: QP801.C68
- Coccidae: QL527.C6
- Coccidia: QL368.C59

## INDEX

- Coccidioidomycosis
  - Microbiology: QR201.C58
- Coccidiosis
  - Microbiology: QR201.C59
- Coccinellidae: QL596.C65
- Coccolithophorida: QL368.C6
- Coccolithophoridae: QK569.C63
- Coccyges: QL696.C8+
  - Paleozoology: QE872.C9
- Cochineal insects
  - Zoology: QL527.D3
- Cochlea
  - Neurophysiology: QP471.2
- Cochleariidae: QL696.C536
- Cochlospermaceae: QK495.C6
- Cochylidae: QL561.C57
- Cockchafers: QL596.M4
- Cockroaches
  - Paleozoology: QE832.B55
  - Zoology: QL505.5+
- Cocoa
  - Nutrition: QP144.C46
- Coconut
  - Nutrition: QP144.C63
- Codes, Telegraphic
  - Meteorology: QC872
- Codfishes: QL638.G2
- Codiaceae: QK569.C65
- Coding theory
  - Machine theory
    - Algebra: QA268
- Codlets: QL638.B85
- Coelacanthiformes
  - Paleozoology: QE852.C58
- Coelolepida
  - Paleozoology: QE852.C6
- Coelomomycetaceae: QK621.C63
- Coelopidae: QL537.C634
- Coelostats
  - Astronomical instruments: QB97
- Coelostomidiidae: QL527.C62
- Coenagrionidae: QL520.3.C64
- Coenomyiidae: QL537.C636
- Coerebidae: QL696.P236
- Coevolution
  - Biology: QH372
- Coffeeberry
  - Botany: QK495.R45
- CoffeeScript (Computer program language): QA76.73.C58
- Cognitive neuroscience: QP360.5
- Coherence
  - Nuclear interactions: QC794.6.C58
  - Radiation physics: QC476.C6
- Coherent state (Physics): QC6.4.C56
- Cohesion
  - Crystallography: QD933
- Cohesion of matter and antimatter: QC183
- Cohomology theory
  - Mathematical physics: QC20.7.H65
  - Topology: QA612.3+
- Coincidence circuits: QC787.C58
- Coincidences
  - Topology: QA612.24
- Colchicine
  - Animal biochemistry: QP801.C69
  - Effect on plants: QK753.C7
  - Genetic effects: QH465.C6
- Cold
  - Effect on plants: QK756
  - Heart physiology: QP114.H94
  - Physiological effect: QP82.2.C6
- Cold fusion: QC791.775.C64
- Cold neutrons
  - Elementary particle physics: QC793.5.C64+
- Cold regions
  - Biogeography: QH84.1+
- Cold waves
  - Weather: QC981.8.A5
- Colemanite
  - Mineralogy: QE391.C8
- Coleochaetaceae: QK569.C73
- Coleoidea
  - Paleozoology: QE807.C7
- Coleophoridae: QL561.C58
- Coleoptera
  - Paleozoology: QE832.C6
  - Zoology: QL571+
- Coleosporiaceae: QK627.C65
- Colicins
  - Animal biochemistry: QP801.C7
- Colies: QL696.C593
- Coliidae: QL696.C593
- Coliiformes: QL696.C59+
  - Paleozoology: QE872.C65
- Collagen
  - Animal biochemistry: QP552.C6
- Collagenase
  - Animal biochemistry: QP609.C64
- Collateral circulation
  - Cardiovascular system: QP110.C64
- Collectins
  - Animal biochemistry: QP552.C62
- Collection and preservation
  - Botany: QK61
  - Fossils: QE718
  - Fungi: QK600.48
  - Geology: QE50
  - Mammals: QL708.4
  - Paleontology: QE718
  - Zoological specimens: QL61+
  - Zoology: QL645.65
- Collective excitations
  - Elementary particle physics: QC793.3.C56
- Collemataceae: QK585.C65

## INDEX

- Collembola: QL503.A1+
  - Paleozoology: QE832.C63
- Colletidae: QL568.C6
- Colliders
  - Nuclear physics: QC787.C59
- Collimators
  - Optical instruments: QC373.C64
- Collineation
  - Algebraic configurations: QA601+
- Collision integrals
  - Statistical physics: QC175.25.C6
- Collision spectroscopy
  - Physics: QC454.C634
- Collisions
  - Astrophysics: QB466.C64
  - Galaxies: QB857.5.M47
  - Nuclear interactions: QC794.6.C6
- Collisions, Stellar: QB818.5
- Colloidal crystals
  - Solution chemistry: QD549.2.C64
- Colloidal determinations
  - Determinative mineralogy: QE369.C6
- Colloids
  - Animal biochemistry: QP525
  - Physical chemistry: QD549+
  - Spectra: QC462.C65
- Colobothristidae: QL523.C64
- Colocongridae: QL638.C6535
- Coloniality
  - Invertebrates: QL364.5
- Colonies
  - Ecology: QH549
  - Fungi: QK604.2.C62
- Colony-forming units assay
  - Cytology: QH585.5.C64
- Color
  - Animals: QL767
  - Physical chemistry: QD473
  - Radiation physics: QC494+
- Color confinement
  - Elementary particle physics: QC793.3.C57
- Color vision
  - Neurophysiology: QP483
- Coloration
  - Sky: QC976.C6
- Colored compounds
  - Organic chemistry: QD441
- Colorimeters: QC496.6
- Colorimetric analysis
  - Analytical chemistry: QD113
  - Organic chemistry: QD272.C6
- Colubridae: QL666.O636
- Columbellidae: QL430.5.C73
  - Paleozoology: QE809.C48
- Columbidae: QL696.C63
  - Paleozoology: QE872.C7
- Columbiformes: QL696.C6+
- Columbium
  - Chemical element: Q1 .N3
- Columelliaceae: QK495.C65
- Colydiidae: QL596.C66
- Colydiinae: QL596.C66
- Colymbidae
  - Paleozoology: QE872.C75
- Comas Sola comet: QB723.C6
- Combinations
  - Algebra: QA165
- Combinatorial analysis
  - Algebra: QA164+
- Combinatorial analysis (Mathematical physics):
  - QC20.7.C58
- Combinatorial chemistry
  - Organic synthesis: QD262
- Combinatorial geometry: QA167+
- Combinatorial group theory
  - Algebra: QA182.5
- Combinatorial probabilities
  - Mathematics: QA273.45
- Combinatorial topology: QA612+
- Combinatorics
  - Algebra: QA164+
- Combinatory logic
  - Mathematical logic: QA9.5
- Combretaceae: QK495.C7
- Combtooth blennies: QL638.B6
- Comephoridae: QL638.C654
- Comets: QB717+
- Commelinaceae: QK495.C73
- Commonsense reasoning
  - Artificial intelligence: Q338.85
- Communication
  - Animals: QL776
  - Microbiology: QR96.5
- Communication in astronomy: QB14.2+
- Communication in biology: QH303+
- Communication in geology: QE48.85+
- Communication in physics: QC5.3+
- Communication in science: Q223+
- Communication in space sciences: QB497.2
- Communication of information
  - Botany: QK9.2+
  - Climatic change: QC902.9+
  - Fishes: QL614.73+
  - Mammals: QL701.5+
  - Natural history: QH13.2+
  - Nature conservation: QH77.3.C65
  - Paleontology: QE704+
  - Zoology: QL9.2+
- Communication of meteorological information: QC854.15
- Communication of ornithological information: QL672.5+
- Communication of planetological information: QB600.3+
- Communities
  - Fungi: QK604.2.C64

## INDEX

- Commutation relations (Quantum mechanics):  
  - QC174.17.C6
- Commutative rings and algebras: QA251.3
- Compact objects  
  - Astrophysics: QB466.C65
- Compact spaces  
  - Topology: QA611.23
- Compactifications  
  - Topology: QA611.23
- Comparative anatomy: QL801+
- Comparative histology: QL807  
  - Human anatomy: QM550+
- Comparative human anatomy: QM24
- Comparative neurobiology: QP356.15
- Comparative physiology: QP33
- Compatibility of software: QA76.76.C64
- Compensated semiconductors: QC611.8.C6
- Competency-based education  
  - Science (General): Q182.6
- Competition  
  - Ecology: QH546.3
  - Microbial ecology: QR100.8.C65
- Competitions  
  - Mathematics: QA20.3
- Compilers  
  - Computer software: QA76.76.C65
- Complement  
  - Immune structures: QR185.8.C6
- Complement fixation  
  - Antigen-antibody reactions: QR187.C6
- Complementarity (Quantum mechanics): QC174.17.C63
- Completeness  
  - Mathematical logic: QA9.67
- Complex compounds  
  - Animal biochemistry: QP801.C75
  - Physical chemistry: QD474
- Complex fluids  
  - Solution fluids: QD549.2.C66
- Complex numbers  
  - Algebra: QA255
- Complex salts  
  - Inorganic chemistry: QD193
- Complex variables, Functions of: QA331.7
- Complexes  
  - Algebraic geometry: QA608
- Complexity (Philosophy)  
  - Philosophy of science: Q175.32.C65
- Component software  
  - Computer science: QA76.76.C66
- Compositae: QK495.C74
- Composite applications  
  - Computer software: QA76.76.A65
- Composite materials  
  - Atomic physics: QC173.4.C63
- Composites  
  - Superconductors: QC611.98.C63
- Composition  
  - Plants: QK865+
- Composition and resolution of forces at a point: QA823
- Composition of planets: QB603.C6
- Composition of the sun: QB539.C6
- Compost  
  - Microbial degradation: QR135.5.C65
- Compound microscopes: QH212.C6
- Compound semiconductors  
  - Semiconductor physics: QC611.8.C64
- Compressibility  
  - Gases: QC163
  - Heat physics: QC281.5.C6
  - Liquids: QC145.4.C6
  - Solid state physics: QC176.8.C6
- Compressible fluids  
  - Descriptive mechanics: QC152.5
- CompuServe (Online service): QA76.57.C65
- Computability theory  
  - Constructive mathematics: QA9.59
- Computable functions  
  - Constructive mathematics: QA9.59
- Computation laboratories  
  - Mathematics: QA74
- Computation, Natural: QA76.9.N37
- Computational complexity  
  - Machine theory: QA267.7
- Computational grids (Computer systems): QA76.9.C58
- Computational intelligence  
  - Artificial intelligence: Q342
- Computational learning theory: Q325.7
- Computer arithmetic: QA76.9.C62
- Computer-assisted instruction  
  - Calculus: QA303.5.C65
  - Differential equations: QA371.35
  - Elementary geometry: QA462.2.C65
  - Group theory: QA174.62.C65
  - Linear and multilinear algebra: QA185.C65
  - Mathematical probabilities: QA273.26
  - Mathematical statistics: QA276.22
  - Mathematics teaching: QA20.C65
  - Physical chemistry: QD457.2
- Computer-based experiments  
  - Mathematics teaching: QA20.C65
- Computer capacity: QA76.9.C63
- Computer games  
  - Computer software: QA76.76.C672
- Computer literacy: QA76.9.C64
- Computer logic: QA76.9.L63
- Computer models  
  - Philosophy of science: Q175.32.S5
- Computer network resources  
  - Astronomy: QB14.3
  - Biology: QH303.5
  - Botany: QK9.4
  - Chemistry: QD9.3
  - Climatic change: QC902.93

## INDEX

- Computer network resources
  - Dinosaurs: QE861.35
  - Ecology: QH541.185
  - Fishes: QL614.75
  - Geology: QE48.87
  - Mammals: QL701.8
  - Mathematics: QA41.6
    - Study and teaching: QA11.5
  - Meteorology: QC866.5.C67
  - Natural history: QH13.4
  - Paleontology: QE704.3
  - Physics: QC5.4
  - Planets: QB600.34
  - Science communication: Q224.5
  - Science research: Q179.97
  - Science study and teaching: Q182.7
  - Zoology: QL9.4
- Computer organization: QA76.9.C643
- Computer programs
  - Chemistry: QD39.3.C6
- Computer scheduling: QA76.529+
- Computer science: QA75.5+
- Computer science as a profession: QA76.25
- Computer security: QA76.9.A25
- Computer simulation: QA76.9.C65
  - Animal biochemistry: QP517.M3
  - Immunology: QR182.2.C65
  - Physical chemistry: QD455.3.C64
- Computer software: QA76.75+
- Computer software, Free: QA76.76.F75
- Computer system failures: QA76.9.F34
- Computer systems: QA75.5+
- Computer viruses: QA76.76.C68
- Computers
  - Social aspects: QA76.9.C66
- Computers and children: QA76.9.C659
- Computers and civilization: QA76.9.C66
- Computers and family: QA76.9.F35
- Computers and older people: QA76.9.O43
- Computers and women: QA76.9.W65
- Concave functions
  - Analysis: QA353.C64
- Conceptual structures
  - Information theory: Q387.2
- Conchaspidae: QL527.C65
- Conchostraca: QL444.B834
  - Paleozoology: QE817.C6
- Concretions: QE471.15.C58
- Condensation
  - Organic chemistry: QD281.C7
- Condensation nuclei
  - Cloud physics: QC921.6.C6
- Condensed benzene rings
  - Organic chemistry: QD390+
- Condensed gases
  - Statistical physics: QC175.16.C6
- Condensed matter physics: QC173.45+
- Conditioned response
  - Neurophysiology: QP416
- Conducting polymers
  - Organic chemistry: QD382.C66
- Conduction
  - Physics: QC320.8+
- Conduction system
  - Heart physiology: QP114.C65
- Conductivity
  - Plasma physics: QC718.5.T7
- Conductometric analysis
  - Electrochemical analysis: QD116.C65
- Confidence intervals
  - Mathematical statistics: QA276.74
- Configuration management
  - Computer software: QA76.76.C69
- Configurations
  - Algebra: QA166.25+
- Confinement of plasma: QC718.5.C65
- Confocal fluorescence microscopy: QH224
- Confocal microscopy: QH224
- Conformal geometry: QA609
- Conformal representation
  - Differential geometry: QA646
  - Mathematics: QA360
- Conformal variants
  - Atomic physics: QC174.52.C66
- Conformational analysis
  - Polymers: QD381.9.C64
- Confuciusornithiformes
  - Paleozoology: QE872.C77
- Conger eels: QL638.C66
- Congiopodidae: QL638.C655
- Conglomerate
  - Petrology: QE471.15.C6
- Conglutination
  - Antigen-antibody reactions: QR187.C65
- Congridae: QL638.C66
- Congrogadidae: QL638.C666
- Congruences
  - Algebraic geometry: QA608
- Conic sections
  - Analytic geometry: QA552
- Conics
  - Analytic geometry: QA559
  - Plane geometry: QA485
- Conidae: QL430.5.C75
  - Paleozoology: QE809.C52
- Conifer sawflies: QL568.D5
- Coniferales
  - Paleobotany: QE977.2
- Coniferophyta
  - Paleobotany: QE977+
- Coniopterygidae: QL513.C65
- Conjugated oligomers
  - Organic chemistry: QD382.C665



## INDEX

- Conjugated polymers
  - Organic chemistry: QD382.C66
- Conjugation
  - Genetics: QH448.2
- Conjunctivitis
  - Microbiology: QR201.C6
- Connaraceae: QK495.C76
- Connective tissues
  - Human histology: QM563
  - Physiology: QP88.23
- Connectivity of graphs: QA166.243
- Connexes
  - Algebraic geometry: QA608
- Connexins
  - Animal biochemistry: QP552.C63
- Conocardiidae
  - Paleozoology: QE812.C6
- Conodonts
  - Paleozoology: QE899.2.C65
- Conopidae: QL537.C65
- Conopophagidae: QL696.P2365
- Conotylidae: QL449.65.C6
- Conscious automata: Q325+
- Consciousness
  - Animals: QL785.25
  - Neurophysiology: QP411
  - Physics: QC6.4.C57
- Conservation
  - Fungi: QK604.2.C66
- Conservation biology: QH75+
- Conservation laws
  - Elementary particle physics: QC793.3.C58
- Conservation of energy: QC73.8.C6
- Constant of gravitation
  - Geodesy: QB341
- Constants
  - Dielectrics: QC585.7.C6
  - Optics: QC368
- Constants, Cosmological: QB991.C658
- Constellation figures: QB802
- Constellations of the zodiac
  - Astronomy: QB803
- Constitution of antimatter: QC172+
- Constitution of matter: QC172+
  - Atomic physics: QC170+
- Constrained motion
  - Particle dynamics: QA853
- Constraint databases: QA76.9.C67
- Constraint programming
  - Digital computers: QA76.612
- Constraints
  - Artificial intelligence: Q340
  - Physics: QC6.4.C58
- Constructive mathematics: QA9.56+
- Constructive realism
  - Philosophy of science: Q175.32.C66
- Contact geometry: QA665
- Contaminated sediments
  - Effect on plants and animals: QH545.C59
- Continental crust
  - Geology: QE511
- Continental drift
  - Geology: QE511.5
- Continentality
  - Meteorology: QC981.8.C65
- Continuity
  - Physics: QC6.4.C6
- Continuity of state
  - Physics: QC307
- Continuous cell lines
  - Cytology: QH585.45
- Continuous culture
  - Microbiology: QR66.4
- Continuous groups (of transformations): QA385+
- Continuum
  - Physics: QC6.4.C6
- Continuum mechanics: QA808.2
- Contraction
  - Cells: QH646
- Contractions
  - Topology: QA611.29
- Control mechanisms
  - Cytology: QH604+
  - Endocrine gland cells: QP187.3.C44
- Control of weeds
  - Effect on plants and animals: QH545.W43
- Control systems
  - Biology: QH508
- Control theory
  - System analysis: QA402.3+
- Controlled fusion
  - Astrophysics: QB466.C66
  - Nuclear physics: QC791.7+
- Conulata
  - Paleozoology: QE780
- Convection
  - Cloud physics: QC921.6.C65
  - Meteorology: QC880.4.C64
  - Physics: QC326+
- Convergence
  - Biology: QH373
  - Meteorology: QC880.4.D5
- Conversion
  - Genetics: QH447.5
- Conversion of computer systems: QA76.9.C68
- Convex geometry: QA639.5+
- Convex polyhedra: QA640.3
- Convex polytopes: QA640.3
- Convex sets: QA640
- Convexity spaces: QA640.5
- Convolvulaceae: QK495.C78
- Cookeite
  - Mineralogy: QE391.C84
- Cookies (Computer science): QA76.9.C72

## INDEX

- Cool stars: QB843.C6
- Cooperative binding
  - Animal biochemistry: QP517.C66
- Cooperative games
  - Algebra: QA272.4
- Coordinates
  - Analytic geometry: QA556
  - Astronomy: QB147
- Coordination compounds
  - Photochemistry: QD730.C65
  - Physical chemistry: QD474
  - Spectra: QC463.C78
- Coordination polymers
  - Organic chemistry: QD382.C67
- Coots (Birds): QL696.G876
- Copepoda: QL444.C7+
  - Paleozoology: QE817.C7
- Copernicium
  - Chemical element: Q1 .C57
- Copper
  - Chemical element: Q1 .C9
  - Effect on plants: QK753.C74
  - Effect on plants and animals: QH545.C6
  - Superconductors: QC611.98.C64
- Copper alloys
  - Analytical chemistry: QD137.C6
- Copper chlorides
  - Effect on plants: QK753.C743
- Copper ores
  - Mineralogy: QE390.2.C6
- Copper proteins
  - Animal biochemistry: QP552.C64
- Coprolites
  - Paleozoology: QE899.2.C67
- Copulatory organs
  - Anatomy: QL876+
- Coraciidae: QL696.C73
- Coraciiformes: QL696.C7+
  - Paleozoology: QE872.C8
- Coracinidae: QL638.C7
- Coral fisheries
  - Effect on plants and animals: QH545.C64
- Coral islands
  - Geology: QE565+
- Coral pipe snakes: QL666.O625
- Coral reef ecology: QH541.5.C7
- Coral reefs
  - Aquatic biology: QH95.8
  - Ecology: QH541.5.C7
  - Geology: QE565+
  - Zoology: QL125
- Coral snakes: QL666.O64
- Coralbilled nuthatches: QL696.P2474
- Corallinaceae: QK569.C8
- Corals: QL377.C5+
  - Paleozoology: QE778
- Corbiculidae: QL430.7.C67
- Corbulidae: QL430.7.C69
- Cord, Spinal
  - Neurophysiology: QP371
- Cordaitales
  - Paleobotany: QE978
- Cordulegastridae: QL520.3.C67
- Corduliidae: QL520.3.C68
- Cordylidae: QL666.L234
- Cordyluridae: QL537.C673
- Core
  - Earth interior: QE509.2
- Core-mantle boundary
  - Earth interior: QE509.3
- Coreidae: QL523.C67
- Corethridae: QL537.C43
- Coriariaceae: QK495.C783
- Corimelaenidae: QL523.C7
- Corinnidae: QL458.42.C67
- Coriolaceae: QK629.C783
- Coriolis force: QC880.4.C65
- Corixidae: QL523.C75
- Corkwood
  - Botany: QK495.L524
- Cormorants
  - Zoology: QL696.P4745
- Corn
  - Experimental genetics: QH470.C64
- Corn oil
  - Microbiology: QR129.C6
- Cornaceae: QK495.C785
- Cornea
  - Neurophysiology: QP477.8
- Cornetfishes: QL638.F5
- Corolla (Flowers): QK657
- Corona, Electric: QC642.5+
- Corona, Solar: QB529+
- Coronal holes
  - Solar: QB529.5
- Coronary system
  - Physiology: QP108
- Coronaviruses
  - Virology: QR399
- Corotating interaction regions, Solar: QB529.6
- Corprinus
  - Experimental genetics: QH470.C6
- Corpus callosum
  - Neurophysiology: QP382.2
- Corpus striatum
  - Neurophysiology: QP383.9
- Corpuscular theory of light: QC402
- Correction and reduction of observations
  - Astronomy: QB151+
- Correction for movement of earth and equinoxes
  - Astronomy: QB161+
- Correlation
  - Algebraic configurations: QA601+
  - Mathematical physics: QC20.7.C6

## INDEX

- Correlation analysis
  - Mathematical statistics: QA278.2
- Correlation of forces: QC73.8.C65
- Correspondence analysis
  - Mathematical statistics: QA278.5
- Correspondence principle (Quantum mechanics):
  - QC174.17.C65
- Correspondence, Scientific: Q227
- Correspondences for algebraic configurations: QA601+
- Corridors
  - Ecology: QH541.15.C67
- Corrodentia
  - Zoology: QL515+
- Corsiaceae: QK495.C786
- Cortex
  - Neurophysiology: QP383+
- Corticaceae: QK629.C785
- Corticosteroids
  - Animal biochemistry: QP752.C6
- Corticosterone
  - Animal biochemistry: QP572.C6
- Corticotropin releasing hormone
  - Animal biochemistry: QP572.C62
- Cortinariaceae: QK629.C787
- Cortisone
  - Animal biochemistry: QP572.C65
- Corundum
  - Mineralogy: QE391.C9
- Corvidae: QL696.P2367
- Corydalidae
  - Zoology: QL514.7.C67
- Corydiidae: QL505.7.C6
- Corylophidae: QL596.C667
- Corynebacteriaceae: QR82.C6
- Corynetidae: QL596.C67
- Corynexochida: QE823.C6
- Corynocarpaceae: QK495.C787
- Corynoscelidae: QL537.C69
- Coryphaenidae: QL638.C795
- Coryphaenoididae: QL638.M2
- Corytophanidae: QL666.L236
- Cosmetics
  - Microbiology: QR53.5.C76
- Cosmetidae: QL458.52.C6
- Cosmic abundance: QB450.5
- Cosmic background radiation: QB991.C64
- Cosmic dust: QB791
- Cosmic grains: QB791.2
- Cosmic magnetic fields: QB462.8
- Cosmic noise
  - Geophysics: QC809.C6
- Cosmic physics: QC801+
- Cosmic ray physics: QC484.8+
- Cosmic rays
  - Elementary particle physics: QC793.3.C6
- Cosmic relations
  - Meteorology: QC883+
- Cosmic ripples: QB991.C64
- Cosmic rotation: QB991.C65
- Cosmochemistry: QB450+
- Cosmochronology: QB466.C67
- Cosmogony: QB980+
- Cosmogony, Geological: QE506
- Cosmological constants: QB991.C658
- Cosmological distances: QB991.C66
- Cosmology: QB980+
- Cosmopterigidae: QL561.C59
- Cossidae: QL561.C6
- Cossyphodidae: QL596.C68
- Cost in scientific research: Q180.55.C6
- Costs
  - Computer software: QA76.76.C73
- Cotingas: QL696.P2368
- Cotingidae: QL696.P2368
- Cottidae: QL638.C8
- Cottocomephoridae: QL638.C816
- Cottunculidae: QL638.C818
- Cotylosauria
  - Paleozoology: QE862.C7
- Cough
  - Physiology: QP123.5
- Coulees
  - Ecology: QH541.5.C73
- Coulomb potential: QC174.17.C67
- Countercurrent chromatography
  - Animal biochemistry: QP519.9.C68
- Counterflow: QB761
- Counters, Nuclear
  - Nuclear physics: QC787.C6
- Counting
  - Arithmetic: QA113
  - Virology: QR388
- Counting and measuring
  - Marine biology: QH91.57.C68
- Coupled problems
  - Mathematical physics: QC20.7.C63
- Coupling constants
  - Elementary particle physics: QC793.3.C67
- Couriers: QL696.C448
- Covariance, Analysis of: QA279+
- Covering
  - Algebra: QA166.7
- Cow sharks: QL638.95.H48
- Cowries: QL430.5.C94
- Coxsackievirus infections
  - Microbiology: QR201.C65
- Coyotes
  - Anecdotes and stories: QL795.C6
- Coypu: QL737.R668
- Crab Nebula: QB855.9.C7
- Crab plovers: QL696.C44
- Crabronidae: QL568.C7
- Crabs
  - Anecdotes and stories: QL795.C65

## INDEX

- Crabs
  - Zoology: QL444.M33
- Cracidae: QL696.G23
- Cracillariidae: QL561.G7
- Crambidae: QL561.C73
- Cranchiidae: QL430.3.C72
- Craneflies: QL537.T6
- Cranes (Birds): QL696.G84
- Cranial nerves
  - Human anatomy: QM471
  - Neurophysiology: QP366
- Craniidae: QL395.8.C7
- Cranoglanididae: QL638.C83
- Craseonycteridae: QL737.C513
- Craspedosomidae: QL449.65.C72
- Crassatellidae: QL430.7.C8
- Crassulaceae: QK495.C79
- Cratering of planets: QB603.C7
- Craterostigmidae: QL449.55.C7
- Craters, Impact
  - Geology: QE612+
- Craters, Meteorite: QB754.8+
- Cratons
  - Geology: QE511
- Creatine
  - Animal biochemistry: QP801.C8
  - Microbial metabolism: QR92.C74
- Creatine kinase
  - Animal biochemistry: QP606.C73
- Creatinine
  - Animal biochemistry: QP801.C8
- Creative ability in science: Q172.5.C74
- Creediidae: QL638.C84
- Creepers (Birds): QL696.P23
- Creeping waterbugs: QL523.N4
- Cremona transformations: QA602
- Creodonta
  - Paleozoology: QE882.C9
- Creosote-bush
  - Botany: QK495.Z9
- Crepe myrtle
  - Botany: QK495.L9
- Crepidotaceae: QK629.C83
- Crested swifts: QL696.A554
- Crestfishes: QL638.L77
- Cretaceous
  - Paleobotany: QE924
  - Paleontology: QE734
  - Stratigraphy: QE685+
- Cretaceous-Tertiary boundary: QE734.5
  - Stratigraphy: QE689
- Crickets
  - Zoology: QL508.G8
- Crinoidea: QL384.C8
  - Paleozoology: QE782
- Crinozoa
  - Paleozoology: QE782
- Crioceridae: QL596.C7
- Critical opalescence: QC427.8.C7
- Critical periods
  - Animal behavior: QL763.2
- Critical phenomena
  - Atomic physics: QC173.4.C74
- Critical point
  - Physics: QC307
- Critical point theory
  - Topology: QA614.7
- Critical scattering: QC427.8.C73
- Critical state
  - Physics: QC307
- Crocodyles
  - Anecdotes and stories: QL795.C67
  - Zoology: QL666.C925
- Crocodylians: QL666.C9+
- Crocodylia: QL666.C9+
  - Paleozoology: QE862.C8
- Crocodylidae: QL666.C925
- Cronartiaceae: QK627.C75
- Cross section of interactions
  - Nuclear interactions: QC794.6.C7
- Crossing over
  - Genetics: QH445+
- Crosslinked polymers
  - Organic chemistry: QD382.P67
- Crossocarpaceae: QK569.C86
- Crossopterygii
  - Paleozoology: QE852.C7
- Crossosomataceae: QK495.C797
- Crosswinds
  - Meteorology: QC939.C76
- Crotalidae: QL666.O69
- Crotaphytidae: QL666.L237
- Croton oil
  - Animal biochemistry: QP752.C7
- Crowberry
  - Botany: QK495.E44
- Crowdsourcing
  - Computer science: QA76.9.H84
- Crown ethers
  - Animal biochemistry: QP801.C83
- Crows
  - Zoology: QL696.P2367
- Cruciferae: QK495.C9
- Cruise ships
  - Effect on plants and animals: QH545.C78
- Crust
  - Earth: QE511
- Crustacea
  - Paleozoology: QE816+
  - Zoology: QL435+
- Crusts, Planetary: QB603.C78
- Cryobiochemistry
  - Animal biochemistry: QP517.C78

## INDEX

- Cryobiology
  - Biological research: QH324.9.C7
- Cryomicroscopy: QH225
- Cryopedology
  - Geology: QE573
- Cryopreservation
  - Microbiology: QR69.C79
- Cryosphere
  - Meteorology: QC880.4.C79
- Crypteroniaceae: QK495.C93
- Cryptobasidiaceae: QK627.4
- Cryptobasidiales: QK627.4
- Cryptobiosis
  - Biology: QH524
- Cryptobranchidae: QL668.C24
- Cryptocephalidae: QL596.C77
- Cryptocercidae: QL505.7.C7
- Cryptochaetidae: QL537.C7
- Cryptoclimatology: QC981.7.C7
- Cryptococcaceae: QK625.C76
- Cryptodesmidae: QL449.65.C79
- Cryptoexplosion structures
  - Geology: QE613+
- Cryptogams
  - Botany: QK504+
  - Reproductive organs: QK662
- Cryptography
  - Machine theory
    - Algebra: QA268
- Cryptomonadida: QL368.C8
- Cryptomycocolacaceae: QK627.45
- Cryptomycocolacales: QK627.45
- Cryptonemiaceae: QK569.C95
- Cryptophagidae: QL596.C78
- Cryptopidae: QL449.55.C78
- Cryptostomata
  - Paleozoology: QE799.C7
- Cryptozoology: QL88.3+, QL88.3
- Crystal defects: QD921+
- Crystal dislocations: QD921+
- Crystal growth: QD921+
- Crystal lattices: QD921+
- Crystal rotation: QD941
- Crystal structure: QD921+
- Crystalline interfaces
  - Condensed matter physics: QC173.458.C78
- Crystalline polymers
  - Organic chemistry: QD382.C78
- Crystallization
  - Physical chemistry: QD548
- Crystallographers: QD903.5+
- Crystallography
  - Chemistry: QD901+
- CSP (Computer program language): QA76.73.C75
- Ctenidae: QL458.42.C8
- Ctenizidae: QL458.42.C83
- Ctenodactylidae: QL737.R64
- Ctenoluciidae: QL638.C88
- Ctenomyidae: QL737.R642
- Ctenophora
  - Paleozoology: QE780.5
  - Zoology: QL380+
- Ctenostomata: QL398.C8
  - Paleozoology: QE799.C8
- Ctenostomatida: QL368.O4
- Ctenuchidae: QL561.C8
- Cubature formulas
  - Numerical analysis: QA299.4.C83
- Cube root: QA119
  - Tables: QA49
- Cubic curves: QA567.2.C82
- Cubic equations: QA215
- Cubic surfaces: QA573
- Cuckoo rollers: QL696.C74
- Cuckoo shrikes: QL696.P225
- Cuckoo wasps: QL568.C47
- Cuckoos
  - Zoology: QL696.C83
- Cucujidae: QL596.C8
- Cuculidae: QL696.C83
- Cuculiformes: QL696.C8+
  - Paleozoology: QE872.C9
- Cucurbitaceae: QK495.C96
- Cuisenaire rods
  - Mathematics teaching aid: QA19.C8
- Culicidae
  - Zoology: QL536
- Culture collections
  - Virology: QR383
- Culture media
  - Microbiology: QR66.3
- Culture technique
  - Microbiology: QR66+
  - Virology: QR386
- Cumacea: QL444.M328
- Cumulonimbus clouds: QC921.43.C78
- Cumulus clouds: QC921.43.C8
- Cunaxidae: QL458.2.C8
- Cunoniaceae: QK495.C965
- Cupidae: QL596.C85
- Cupressaceae: QK494.5.C975
- Cuprodescloizite
  - Mineralogy: QE391.C94
- Cuprum
  - Chemical element: Q1 .C9
- Curassows: QL696.G23
- Curculionidae: QL596.C9
- Curie, Marie: QD22.C8
- Curie, Pierre: QD22.C8
- Curimatidae: QL638.C89
- Curiosa
  - Science: Q173
- Curium
  - Chemical element: Q1 .C55

## INDEX

- Curl (Computer program language): QA76.73.C87
- Currawongs: QL696.P216
- Current balance: QC544.C8
- Current measurements
  - Physics: QC615
- Curvature
  - Infinitesimal geometry: QA624
  - Surfaces: QA634
- Curvature cosmology: QB991.C87
- Curve fitting
  - Numerical analysis: QA297.6
- Curves
  - Geometry: QA559.5
  - Plane geometry: QA483
- Curves, Infinitesimal geometry of: QA621+
- Curves of double curvature: QA581
- Curves of surfaces
  - Differential geometry: QA643
- Cuscutaceae: QK495.C967
- Cusk eels: QL638.O637
- Cutaneous senses
  - Physiology: QP450+
- Cuterebridae: QL537.C8
- Cutlassfishes: QL638.T7
- Cuvier
  - Zoology: QL31.C9
- CW complexes
  - Topology: QA611.35
- Cyanastraceae: QK495.C97
- Cyanidiaceae: QK569.C956
- Cyanobacteria
  - Microbiology: QR99.6+
- Cyanobacterial
  - Animal biochemistry: QP632.C87
- Cyanobacterial blooms: QR99.69.B55
- Cyanocobalamine
  - Animal biochemistry: QP772.C9
- Cyanogen derivatives
  - Aliphatic compounds: QD305.N7
  - Aromatic compounds: QD341.N7
- Cyanophyta: QR99.6+
- Cyatheaceae: QK524.C9
- Cyathoceridae: QL596.C93
- Cyatholipidae: QL458.42.C93
- Cyberinfrastructure: QA76.9.C92
- Cybernetics: Q300+
- Cybocephalidae: QL596.C933
- Cycadaceae: QK494.5.C995
- Cycadales
  - Paleobotany: QE976.2
- Cycadeoidales
  - Paleobotany: QE976.3
- Cycadophyta
  - Paleobotany: QE976+
- Cyclanthaceae: QK495.C975
- Cyclarhidae: QL696.P239
- Cycles
  - Graph theory: QA166.22
  - Science: Q176
- Cycles, Solar: QB526.C9
- Cyclic adenylic acid
  - Animal biochemistry: QP801.C86
- Cyclic compounds
  - Inorganic chemistry: QD197
- Cyclic nucleotide phosphodiesterases
  - Animal biochemistry: QP609.C92
- Cyclic universe theory
  - Cosmology: QB991.C92
- Cyclin-dependent kinases
  - Animal biochemistry: QP609.C93
- Cycling, All terrain
  - Effect on plants and animals: QH545.A42
- Cyclitols
  - Animal biochemistry: QP702.C8
- Cyclones
  - Meteorology: QC940.6+
- Cyclophoridae: QL430.5.C82
- Cyclopoida: QL444.C73
- Cyclopteridae: QL638.C9
- Cyclostomata: QL398.C9
  - Paleozoology: QE799.C9
- Cyclostomatidae: QL430.5.P63
- Cyclostomidae: QL430.5.P63
- Cyclostratigraphy: QE651.5
- Cycloteuthidae: QL430.3.C9
- Cyclotomy
  - Number theory: QA245
- Cyclotornidae: QL561.C9
- Cyclotron waves
  - Plasma physics: QC718.5.C9
- Cyclotrons
  - Nuclear physics: QC787.C8
- Cycochrome b
  - Animal biochemistry: QP671.C78
- Cycochrome c
  - Animal biochemistry: QP671.C8
- Cycochrome P-450
  - Animal biochemistry: QP671.C83
- Cycochromes
  - Animal biochemistry: QP671.C85
- Cydippida: QL380.5.T429
- Cydnidae (Burrower bugs): QL523.C9
- Cyemidae: QL638.C914
- Cygnus A
  - Radio astronomy: QB479.55.C93
- Cyladidae: QL596.C94
- Cylindrachetidae: QL508.C9
- Cylindrellidae: QL430.5.U68
- Cylindrical bark beetles: QL596.C66
- Cylindrococcidae: QL527.C9
- Cylindrophiidae: QL666.O638
- Cylindrotomidae: QL537.C9
- Cymatiidae: QL430.5.R35

## INDEX

- Cymnoascaceae: QK623.G94
  - Cymodoceaceae: QK495.C979
  - Cynipidae: QL568.C9
  - Cynocephalidae: QL737.D4
  - Cynodontidae: QL638.C92
  - Cynoglossidae: QL638.C93
  - Cynomoriaceae: QK495.C98
  - Cynurenic acid
    - Animal biochemistry: QP801.K8
  - Cyperaceae: QK495.C997
  - Cyphellaceae: QK629.C95
  - Cypraeidae: QL430.5.C94
    - Paleozoology: QE809.C9
  - Cypress swamps
    - Ecology: QH541.5.C95
  - Cypricardiacea
    - Paleozoology: QE812.T34
  - Cyprinidae: QL638.C94
  - Cypriniformes: QL637.9.C9
    - Paleozoology: QE852.C95
  - Cyprinodontidae: QL638.C96
  - Cyprinodontiformes: QL637.9.C95
  - Cypseliformes: QL696.A55+
  - Cyrenidae: QL430.7.C67
  - Cyrrillaceae: QK495.C9973
  - Cyrtinidae
    - Paleozoology: QE797.C95
  - Cysteine proteinases
    - Animal biochemistry: QP609.C94
  - Cystine
    - Animal biochemistry: QP562.C9
  - Cystitis
    - Microbiology: QR201.C9
  - Cystobacteraceae: QR82.C88
  - Cystofilobasidiaceae: QK629.C97
  - Cystofilobasidiales: QK629.C97
  - Cystoidea
    - Paleozoology: QE783.C9
  - Cystoseiraceae: QK569.C97
  - Cytochalasins
    - Animal biochemistry: QP632.C9
  - Cytochrome c reductase
    - Animal biochemistry: QP603.R4
  - Cytochrome oxidase
    - Animal biochemistry: QP603.C85
  - Cytochrome peroxidase
    - Animal biochemistry: QP603.C9
  - Cytochromes
    - Animal biochemistry: QP552.C94
  - Cytoditidae: QL458.2.C9
  - Cytofluorometry
    - Cytology: QH585.5.C98
  - Cytogenetics
    - Biology: QH441.5
    - Plants: QK981.35
  - Cytokines: QR185.8.C95
  - Cytokinins
    - Plant constituent: QK898.C94
  - Cytology
    - Algae: QK565+
    - Arthropoda: QL434.715
    - Biology: QH573+
    - Fungi: QK601
    - Insects: QL494.8
    - Invertebrates: QL363.8
    - Mammals: QL739.15
  - Cytomegalovirus infections
    - Microbiology: QR201.C94
  - Cytophagaceae: QR82.C9
  - Cytophotometry
    - Cytology: QH585.5.C984
  - Cytoplasm
    - Cytology: QH591
  - Cytoplasmic filaments
    - Cytology: QH603.C95
  - Cytoplasmic inheritance
    - Genetics: QH452
  - Cytoskeletal proteins
    - Animal biochemistry: QP552.C96
  - Cytoskeleton
    - Cytology: QH603.C96
- D
- d-band metals
    - Superconductors: QC611.98.D33
  - D (Computer program language): QA76.73.D138, QA76.73.D14
  - D region
    - Meteorology: QC881.2.D2
  - Dacrymycetaceae: QK629.D2
  - Dacryoconarida
    - Paleozoology: QE899.2.D32
  - Dactylopiidae: QL527.D3
  - Dactylopteridae: QL638.D3
  - Dactylopteriformes: QL637.9.D3
  - Dactyloscopidae: QL638.D35
  - Daesiidae: QL458.82.D3
  - Daggertooshs: QL638.A57
  - Dairy products
    - Microbiology: QR121
    - Nutrition: QP144.M54
  - Dalatiidae: QL638.95.D3
  - Dalceridae: QL561.D25
  - Damping
    - Electric waves: QC665.D3
    - Sound waves: QC243.3.D3
  - Damping rings
    - Nuclear and physics: QC787.D35
  - Dams
    - Effect on plants and animals: QH545.D35
  - Damsel bugs: QL523.N3
  - Damselfishes: QL638.P77

## INDEX

- Danaidae: QL561.D3
- Danceflies: QL537.E4
- Dancing
  - Physiology: QP310.D35
- Dangerous animals
  - Zoology: QL100+
- Dangerous arthropods: QL434.45
- Dangerous birds
  - Zoology: QL677.75
- Dangerous fishes: QL618.7
- Dangerous insects
  - Zoology: QL468.8
- Dangerous reptiles: QL645.7
- Danzysz phenomenon
  - Antigen-antibody reactions: QR187.D3
- Daphniophyllaceae: QK495.D325
- Dark matter: QB791.3
- Darkling beetles: QL596.T2
- Darners: QL520.3.A4
- D'Arrest comet: QB723.D37
- Dart (Computer program language): QA76.73.D23
- Darters
  - Zoology: QL638.P4
- Darwin, Charles
  - Biography: QH31.D2
  - Works: QH365.A1+
- Dasyllidae: QL596.D37
- Dasyaceae: QK569.D3
- Dasyatidae: QL638.85.D3
- Dasycladaceae: QK569.D33
  - Paleontology: QE955
- Dasycladales: QK569.D34
- Dasyonygidae: QL540.3.D3
- Dasypodidae: QL737.E23
- Dasyproctidae: QL737.R644
- Dasytidae: QL596.D375
- Dasyuridae: QL737.M33
- Dasyuromorphia: QL737.M325+
  - Paleozoology: QE882.M32
- Data analysis, Quantitative
  - Computer science: QA76.9.Q36
- Data compression
  - Computer science: QA76.9.D33
- Data encryption
  - Computer science: QA76.9.D335
- Data entry
  - Computer science: QA76.9.D337
- Data logging
  - Computer science: QA76.9.D3385
- Data marts
  - Computer science: QA76.9.D34
- Data mining
  - Biological research: QH324.27
  - Computer science: QA76.9.D343
- Data preparation
  - Computer science: QA76.9.D345
- Data processing: QA75.5+
  - Data processing
    - Analytic geometry: QA551.5
    - Analytical chemistry: QD75.4.E4
    - Animal behavior: QL751.65.D37
    - Artificial intelligence: Q336
    - Astronomy: QB51.3.E43
    - Astrophysics: QB462.2
    - Biological research: QH324.2+
    - Calculus: QA303.5.D37
    - Chemistry: QD39.3.E46
    - Crystallography: QD906.7.E4
    - Cytology: QH585.5.D38
    - Differential equations: QA371.5.D37
    - Electrochemistry: QD555.6.E4
    - Electromagnetism: QC760.54
    - Endocrine glands: QP187.3.D38
    - Galaxies: QB857.5.D37
    - Genetics: QH441.2
    - Geochemistry: QE515.5.D37
    - Geodesy: QB297
    - Geology: QE48.8
    - Geometry: QA448.D38
    - Gravity observations: QB336
    - Group theory: QA174.7.D36
    - Heat transfer: QC320.22.E43
    - Linear algebra: QA185.D37
    - Mammals: QL706.5.D38
    - Marine biology: QH91.57.E4
    - Mathematical statistics: QA276.4+
    - Microbiology: QR69.D35
    - Mineralogy: QE364.2.E4
    - Multilinear algebra: QA185.D37
    - Natural history (General): QH60.2
    - Neurophysiology: QP357.5
    - Nuclear chemistry: QD602.5.E4
    - Organic chemistry: QD255.5.E4
    - Paleontology: QE721.2.D37
    - Physical chemistry: QD455.3.E4
    - Physiology: QP33.6.D38
    - Planets: QB602.95
    - Polymers: QD381.9.E4
    - Quantum chemistry: QD462.6.D38
    - Rain and rainfall: QC926.2
    - Science: Q183.9
    - Seismology: QE539.2.D36
    - Spectroscopy: QC452
    - Stratigraphy: QE652
    - Structural geography: QE601.3.D37
    - Thermodynamics: QC311.29
  - Data recovery
    - Computer science: QA76.9.D348
  - Data structures
    - Computer science: QA76.9.D35
  - Data summaries
    - Atmospheric pressure: QC885.4+
  - Data warehousing
    - Computer science: QA76.9.D37



## INDEX

- Database design: QA76.9.D26
- Database management: QA76.9.D3
- Database security: QA76.9.D314
- Databases: QA76.9.D32
  - Biology: QH303.15+
- Dating
  - Radioactive substances: QC798.D3
- Datisceae: QK495.D33
- Datolite
  - Mineralogy: QE391.D3
- Daubentoniidae: QL737.P935
- Davidiaceae: QK495.D34
- Davidsoniaceae: QK495.D35
- Dawn chorus
  - Radio meteorology: QC973.4.C4
- Daylily: QK495.H38
- Dead animals
  - Zoology: QL87.5
- Death
  - Biology: QH530
  - Cells: QH671
  - Developmental physiology: QP87
- Debugging in computer science: QA76.9.D43
- Decapoda: QL444.M33
  - Paleozoology: QE817.D3
- Decay
  - Elementary particle physics: QC793.3.D4
  - Nuclear interactions: QC794.6.R3
  - Radioactive substances: QC795.8.D4
- Decidability
  - Mathematical logic: QA9.65
- Decimal system: QA141.35
- Decision theory
  - Mathematical statistics: QA279.4+
- Declarative programming
  - Digital computers: QA76.615
- Decompilers: QA76.76.D57
- Decomposition method
  - Mathematical physics: QC20.7.D4
  - System analysis: QA402.2
- Decremeters: QC667+
- Deductive systems
  - Mathematical logic: QA9.65+
- Deep-sea biology
  - Marine biology: QH91.8.D44
- Deep-sea zone
  - Ecology: QH541.5.D35
- Deep-sea zoology: QL125.5
- Deepsea smelts: QL638.B25
- Deepwater cardinalfishes: QL638.E62
- Deer
  - Anecdotes and stories: QL795.D3
  - Zoology: QL737.U55
- Deerflies: QL537.T25
- Default reasoning
  - Artificial intelligence: Q339
- Defects
  - Condensed matter physics: QC173.458.D43
  - Semiconductor physics: QC611.6.D4
  - Solid state physics: QC176.8.D44
- Defects in crystals: QD921+
- Defense mechanisms
  - Animals: QL759
- Deformable bodies, Mechanics of
  - Analytic mechanics: QA901+
- Deformation
  - Geology: QE604
- Deformation of matter and antimatter: QC193
- Deformation of surfaces
  - Differential geometry: QA648
- Deformations of structures
  - Topology: QA614.97
- Degenerate differential equations: QA377.5
- Degeneration
  - Biology: QH528
  - Plants: QK987
- Degeneriaceae: QK495.D4
- Deglutition
  - Physiology: QP148
- Degree of freedom
  - Atomic physics: QC174.52.D43
  - Elementary particle physics: QC793.3.D43
- Dehydrogenases
  - Animal biochemistry: QP603.D4
- Dehydrogenation
  - Organic chemistry: QD281.D4
- Deicing chemicals
  - Effect on plants and animals: QH545.D4
- Deinococcaceae: QR82.D37
- Deinopidae: QL458.42.D55
- Delavan comet: QB723.D45
- Delayed neutrons
  - Elementary particle physics: QC793.5.D42+
- Delayed protons
  - Elementary particle physics: QC793.5.D442+
- Delesseriaceae: QK569.D4
- Deletion
  - Chromosomal mutation: QH462.D4
- Delphacidae: QL527.D44
- DELPHI (Videotex system): QA76.57.D44
- Delphinidae: QL737.C432
- Delsalination plants
  - Effect on plants and animals: QH545.S33
- Delta Scuti stars: QB843.D44
- Deltatheridia
  - Paleozoology: QE882.D4
- Delthyrididae
  - Paleozoology: QE797.D3
- Deluge
  - Geology: QE507
- Dematiaceae: QK625.D4
- Demodicidae: QL458.2.D45
- Demospongiae: QL373.D4

## INDEX

- Dendritic cells: QR185.8.D45
- Dendrobatidae: QL668.E233
- Dendroclimatology
  - Paleoclimatology: QC884.2.D4
- Dendrocolaptidae: QL696.P24
- Denitrification
  - Microbial ecology: QR100.8.D46
- Denitrifying bacteria
  - Microbial ecology: QR100.8.D46
- Denning comet: QB723.D5
- Dennstaedtiaceae: QK524.D5
- Dense plasma focus
  - Plasma physics: QC718.5.D38
- Densitometers: QC391
- Densitometry
  - Optical measurements: QC367.3.D46
- Density
  - Measurement: QC111+
  - Plasma physics: QC718.5.D4
- Density functionals
  - Inorganic chemistry: QD152.5.D46
  - Mathematical physics: QC20.7.D43
  - Quantum chemistry: QD462.6.D45
- Density gradient centrifugation
  - Analytical biochemistry: QP519.9.D45
  - Biological research: QH324.9.D46
- Density matrices
  - Quantum chemistry: QD462.6.D46
  - Quantum mechanics: QC174.17.D44
- Dental microbiology: QR47
- Dentata nucleus
  - Anatomy: QL938.D44
- Denticipitidae: QL638.D4
- Deoxy sugars
  - Animal biochemistry: QP702.D38
- Deoxyribonucleases
  - Animal biochemistry: QP609.D4
- Deoxyribonucleate nucleotidyltransferases
  - Animal biochemistry: QP606.D46
- Deoxyribonucleic acid
  - Microbial metabolism: QR92.D45
  - Plant constituent: QK898.D44
- Deoxyribonucleic acids
  - Animal biochemistry: QP624+
  - Organic chemistry: QD435
- Deoxyribose
  - Animal biochemistry: QP702.D4
- Dependoviruses
  - Virology: QR408.2.D47
- Deposition
  - Geology: QE571+
- Depsides
  - Plant constituent: QK898.D46
- Derbidae: QL527.D47
- Derichthyidae: QL638.D47
- Derivatives
  - Proteins, peptides, amino acids, etc.: QD431.25.D47
- Dermanyssidae: QL458.2.D47
- Dermaptera
  - Paleozoology: QE832.D47
  - Zoology: QL510+
- Dermateaceae: QK623.D47
- Dermatemydidae: QL666.C54
- Dermatophilaceae: QR82.D4
- Dermestidae: QL596.D4
- Dermochelyidae: QL666.C546
- Dermoglyphidae: QL458.2.D475
- Dermoptera: QL737.D35+
- Derodontidae: QL596.D42
- Description logics
  - Information theory: Q387.3
- Descriptive astronomy: QB494.2+
- Descriptive geometry: QA501+
- Descriptive mechanics
  - Physics: QC120+
- Descriptive mineralogy: QE372+
- Desert climatology: QC993.7
- Desert dormice: QL737.R682
- Desert ecology: QH541.5.D4
- Desert meteorology: QC993.7
- Desert plants
  - Plant ecology: QK922
- Deserts
  - Biogeography: QH88
  - Ecology: QH541.5.D4
  - Plant ecology: QK938.D4
  - Zoology: QL116
- Desfontainiaceae: QK495.D42
- Desidae: QL458.42.D44
- Design
  - Algebra: QA166.25+
- Desmerestiaceae: QK569.D43
- Desmidiaceae: QK569.D46
- Desmidiales: QK569.Z82
- Desmodontidae: QL737.C52
- Desmostylia
  - Paleozoology: QE882.D45
- Desmothoracida: QL368.D4
- Detergents
  - Effect on plants: QK753.D4
- Deterioration
  - Polymers: QD381.9.D47
- Determinants
  - Mathematical physics: QC20.7.D45
  - Matrices: QA191
- Determination, Environmental sex
  - Physiology: QP278.53
- Determination, Genetic sex
  - Physiology: QP278.5
- Determination of the ecliptic
  - Spherical astronomy: QB171
- Determination, Sex
  - Physiology: QP278.5

## INDEX

- Determination, Temperature-dependent sex
  - Physiology: QP278.53
- Determinative mineralogy: QE367+
- Determinism (Physics): QC6.4.D46
- Detonation waves (Gas dynamics): QC168.85.D46
- Deuteron magnetic resonance spectroscopy
  - Analytical chemistry: QD96.D48
- Deuterons
  - Elementary particle physics: QC793.5.D482+
- Deuterophlebiidae: QL537.D47
- Development
  - Biology: QH491+
  - Computer software: QA76.76.D47
  - Fishes: QL639.25
  - Insects: QL495.5
  - Invertebrates: QL364.18
  - Microbiology: QR73.4
  - Plant physiology: QK731+
- Developmental behavior
  - Animals: QL763+
- Developmental endocrinology: QP187.6
- Developmental genetics: QH453
- Developmental immunology: QR184.5
- Developmental neurobiology
  - Physiology: QP363.5
- Developmental neurophysiology: QP356.25
- Developmental physiology: QP83.8+
- Deviation of the magnetic compass: QC849
- Device drivers
  - Computer software: QA76.76.D49
- Devil's claw
  - Botany: QK495.M287
- Devonian
  - Paleobotany: QE918
  - Paleontology: QE728
  - Stratigraphy: QE665
- Dew formation
  - Meteorology: QC929.D5
- Dew plants
  - Plant ecology: QK916
- Dexiidae: QL537.D48
- Dextranase
  - Animal biochemistry: QP609.D48
- Diabase: QE462.D5
- Diadocidiidae: QL537.D52
- Diadromy
  - Fishes: QL639.5
- Diagnostic bacteriology: QR67.2
- Diagnostic mycology
  - Microbiology: QR248
- Diagnostic parasitology
  - Microbiology: QR255
- Diagnostic technique
  - Microbiology: QR67+
  - Virology: QR387
- Diagnostics
  - Plasma physics: QC718.5.D5
- Diagrams
  - Mathematics teaching aid: QA19.C45
- Dialectical materialism
  - Philosophy of science: Q175.32.D52
- Dialectical materialism (Physics): QC6.4.D5
- Dialogue
  - Philosophy of science: Q175.32.D53
- Dialypetalanthaceae: QK495.D43
- Dialysis
  - Organic chemistry: QD281.D47
- Diamagnetism
  - Physics: QC764
- Diameter of the sun: QB523
- Diameters, Stellar: QB818
- Diamino amino acids: QP562.D53
- Diamondback moths: QL561.P55
- Diamonds
  - Mineralogy: QE393
- Diamonds in optical instruments: QC374.5
- Diapensiaceae: QK495.D435
- Diaperasticidae: QL510.3.D5
- Diaphragm
  - Anatomy: QL851
  - Human anatomy: QM265
- Diaporthales: QK623.D55
- Diapriidae: QL568.D44
- Diarrhea
  - Microbiology: QR201.D4
- Diarrhea, Viral
  - Microbiology: QR201.V53
- Diaspididae: QL527.D5
- Diastase
  - Animal biochemistry: QP609.A45
  - Phytochemistry: QK896
- Diastatidae: QL537.D53
- Diastole
  - Heart physiology: QP114.D5
- Diastomatidae: QL430.5.D43
- Diatomophyceae: QK569.D54
- Diatoms: QK569.D54
  - Paleontology: QE955
- Diazinon
  - Effect on plants and animals: QH545.D486
- Diazo compounds
  - Aliphatic compounds: QD305.A9
  - Aromatic compounds: QD341.A9
- Dibamidae: QL666.L238
- Dibranchiata
  - Paleozoology: QE807.D5
- Dicaeidae: QL696.P242
- Dicamptodontidae: QL668.C243
- Diceratidae
  - Paleozoology: QE812.D5
- Diceratiidae: QL638.D5
- Dichapetalaceae: QK495.D44
- Dichloromethane
  - Effect on plants and animals: QH545.D5

## INDEX

- Dichlorophenoxyacetic acid
  - Effect on plants: QK753.D5
- Dichroism: QC446.D5
- Dicksoniaceae: QK524.D55
- Dicotyledons: QK495.A12
  - Paleobotany: QE983
- Dicranaceae: QK539.D5
- Dicroglossidae: QL668.E234
- Dicruridae: QL696.P2427
- Dictynidae: QL458.42.D5
- Dictyopharidae: QL527.D53
- Dictyosteliaceae: QK635.D5
- Dictyosteliales: QK635.D53
- Dicyrtomidae: QL503.D5
- Didelphidae: QL737.M34
- Didelphimorphia: QL737.M337+
  - Paleozoology: QE882.M33
- Didiereaceae: QK495.D45
- Didymelaceae: QK495.D46
- Didymium
  - Chemical element: Q1 .P7
- Diel vertical migration
  - Fishes: QL639.6
- Dielasmatidae
  - Paleozoology: QE797.D5
- Dielectric heating: QC585.7.H4
- Dielectric loss: QC585.7.L6
- Dielectrics: QC584+
- Dielectrophoresis: QC585.7.D5
- Diencephalon
  - Anatomy: QL938.D53
- Diffeomorphisms
  - Differential topology: QA613.65
- Difference equations
  - Analysis: QA431
  - Mathematical physics: QC20.7.D47
- Differentiable dynamical systems
  - Topology: QA614.8+
- Differentiable manifolds
  - Topology: QA614.3+
- Differentiable mappings: QA613.64
- Differentiable mappings and singularities: QA614.58
- Differential-algebraic equations: QA372.5
- Differential and difference algebra: QA247.4
- Differential calculus: QA304+
- Differential-difference equations: QA373
- Differential equations
  - Analysis: QA370+
  - Mathematical physics: QC20.7.D5
- Differential equations, Partial
  - Quantum mechanics: QC174.17.D54
- Differential forms: QA381
- Differential games
  - Algebra: QA272
  - Mathematical physics: QC20.7.D516
- Differential geometry: QA641+
  - Mathematical physics: QC20.7.D52
- Differential geometry of congruences: QA639
- Differential invariants: QA381
- Differential operators
  - Functional analysis: QA329.4+
- Differential operators on manifolds
  - Topology: QA614.9+
- Differential thermal analysis
  - Determinative mineralogy: QE369.D5
- Differential topology: QA613.6+
- Differentiation
  - Microbiology: QR73.5
- Differentiation, Sex
  - Physiology: QP278
- Diffraction
  - Electric waves: QC665.D5
  - Elementary particle physics: QC793.3.D5
  - Optics: QC414.8+
  - Radio waves: QC676.7.D5
  - Sound waves: QC243.3.D53
  - X-rays: QC482.D5
- Diffraction gratings: QC417
- Diffraction of electrons
  - Analytical chemistry: QD79.E4
- Diffusion
  - Electric waves: QC665.D54
  - Elementary particle physics: QC793.3.D55
  - Gases: QC163.5
  - Liquids: QC145.4.D5
  - Matter and antimatter: QC185
  - Meteorology: QC880.4.D44
  - Physical chemistry: QD543
  - Plasma physics: QC718.5.T7
  - Semiconductors: QC611.6.D5
  - Solid state physics: QC176.8.D5
  - Thin films: QC176.84.D54
- Diffusion processes
  - Markov processes: QA274.75
- Digestion
  - Physiology: QP145+
- Digestive enzymes
  - Animal biochemistry: QP609.D52
- Digestive gland secretions
  - Physiology: QP190.7+
- Digestive organ secretions
  - Physiology: QP190.7+
- Digestive organs
  - Anatomy: QL856+
  - Human anatomy: QM301+
  - Physiology: QP146+
- Digestive tract
  - Physiology: QP145+
- Digital computers: QA76.5+
- Digital libraries
  - Science: Q224.5
  - Science study and teaching: Q182.7
- Digitoxin
  - Animal biochemistry: QP632.D54

## INDEX

- Diglycerides
  - Animal biochemistry: QP752.D54
- Dignathodontidae: QL449.55.D5
- Diguetaeidae: QL458.42.D53
- Dihydroxyphenylalanine
  - Animal biochemistry: QP563.D5
- Dikes
  - Geology: QE611+
- Dilaenaceae: QK555.D5
- Dilaridae: QL513.D5
- Dilatation
  - Heart physiology: QP114.D54
- Dilatation of time (Relativity physics): QC173.59.T5
- Dilleniaceae: QK495.D47
- Dimensional analysis
  - Mathematical physics: QC20.7.D55
- Dimethyl sulfide
  - Meteorology: QC879.9.D55
- Dimethylpropiothetin
  - Plant constituent: QK898.D54
- Dimorphidae: QL568.D47
- Dimyidae: QL430.7.D55
- Dinamoebales: QK569.D55
- Dingoes
  - Anecdotes and stories: QL795.D5
- Dinocerata
  - Paleozoology: QE882.U8
- Dinoflagellates: QK569.D56
  - Paleontology: QE955
- Dinomyidae: QL737.R646
- Dinopidae: QL458.42.D55
- Dinornithiformes
  - Paleozoology: QE872.D5
- Dinosaur tracks: QE861.6.T72
- Dinosaurs
  - Paleozoology: QE861.2+
- Diodontidae: QL638.D56
- Diomedidae: QL696.P63
- Dioncophyllaceae: QK495.D48
- Diophantine analysis
  - Number theory: QA242
- Diopsidae: QL537.D56
- Dioptidae: QL561.D5
- Diorite: QE462.D56
- Dioscoreaceae: QK495.D54
- Dioxins
  - Effect on plants and animals: QH545.D55
- Dipentodontaceae: QK495.D545
- Dipeptidases
  - Animal biochemistry: QP609.D54
- Diphenol oxidase
  - Animal biochemistry: QP603.D5
- Diphtheria
  - Microbiology: QR201.D5
- Diphtheroid organisms
  - Microbiology: QR201.D6
- Diphyllidae: QL596.D57
- Diplatyidae: QL510.3.D56
- Diplocentridae: QL458.72.D5
- Diplomonadida: QL368.D65
- Diplomystidae: QL638.D57
- Diplopoda: QL449.6+
  - Paleozoology: QE829.D5
- Diploporita
  - Paleozoology: QE783.D5
- Diplopteridae: QL505.7.D5
- Diplura: QL503.4.A1+
- Dipluridae: QL458.42.D56
- Dipnoi
  - Paleozoology: QE852.D5
- Dipnoid fishes: QL638.3
- Dipodidae: QL737.R648
- Dippers: QL696.P235
- Diprionidae: QL568.D5
- Diprotodontia: QL737.M345+
  - Paleozoology: QE882.M34
- Dipsacaceae: QK495.D56
- Dipsocoridae: QL523.D5
- Diptera
  - Paleozoology: QE832.D6
  - Zoology: QL531+
- Dipteriformes: QL637.9.D5
- Dipterocarpaceae: QK495.D564
- Diptilomiopidae
  - Zoology: QL458.2.D56
- Diquat
  - Effect on plants and animals: QH545.D57
- Direcmidae: QL638.D577
- Direct interactions
  - Nuclear physics: QC794.8.D57
- Directed graphs
  - Algebra: QA166.15
- Dirichlet problem: QA425
- Dirty superconductors: QC611.98.D57
- Disassemblers: QA76.76.D57
- Discellaceae: QK625.E9
- Discharge
  - Lightning: QC966.7.D5
- Discharge in electric corona: QC643.7.D5
- Discinidae
  - Paleozoology: QE797.D6
- Discoglossidae: QL668.E235
- Discolomidae: QL596.D58
- Discomycetes: QK623.A1
- Discoveries in scientific research: Q180.55.D57
- Discrete geometry: QA640.7+
- Discrete mathematics
  - Numerical analysis: QA297.4
- Discriminant analysis
  - Mathematical statistics: QA278.65
- Discussion and debate forums
  - Mathematics teaching aid: QA20.F67
- Disintegration
  - Microbiology: QR69.D48

## INDEX

- Disk-winged bats: QL737.C59
- Disks
  - Astrophysics: QB466.D58
- Dislocations in crystals: QD921+
- Dispersal of organisms: QH543.3
- Dispersion
  - Optics: QC431+
- Dissecting microscopes: QH212.D5
- Dissection
  - Anatomy: QL812.5
  - Human anatomy: QM33.4+
- Dissemination
  - Plant ecology: QK929
- Dissociation
  - Animal biochemistry: QP517.D57
  - Electric discharge through gases: QC711.8.D5
  - Electrochemistry: QD562.I65
  - Thermochemistry: QD517
- Dissolution
  - Chemistry: QD63.D5
- Dissorophidae
  - Paleozoology: QE868.D5
- Distance geometry: QA613+
- Distance of moon: QB583
- Distance, Stellar: QB813
- Distances, Extragalactic: QB857.5.E97
- Disteniidae: QL596.D59
- Distichodontidae: QL638.D58
- Distillation
  - Chemistry: QD63.D6
  - Organic chemistry: QD281.D5
- Distillation, Fractional
  - Thermochemistry: QD526
- Distributed artificial intelligence
  - Cybernetics: Q337+
- Distributed processing
  - Computer science: QA76.9.D5
- Distribution of primes
  - Number theory: QA246
- Distribution of stars: QB819
- Distributions
  - Probabilities: QA273.6
- Distributions, Theory of
  - Functional analysis: QA324
- Disturbances
  - Gravity observations: QB339
- Ditomyiidae: QL537.D58
- Diurnal variations
  - Cosmic ray physics: QC485.8.V3
  - Geomagnetism: QC831
- Divergence
  - Meteorology: QC880.4.D5
- Diversity
  - Microbiology: QR73
- Diversity, Plant (General): QK46.5.D58
- Diving petrels: QL696.P66
- Divisibility
  - Number theory: QA242
- Division
  - Elementary mathematics: QA115
- Division algebras: QA247.45
- Dixidae: QL537.D59
- DNA
  - Genetic effects: QH465.D55
  - Microbial metabolism: QR92.D45
  - Plant constituent: QK898.D44
  - Viruses: QR456
- DNA computers: QA76.887
- DNA damage
  - Genetics: QH465.A1+
- DNA fingerprinting
  - Animal biochemistry: QP624.5.D72
- DNA helicases
  - Animal biochemistry: QP616.D54
- DNA insertion elements: QH462.I48
- DNA-ligand interactions: QP624.74+
- DNA ligases
  - Animal biochemistry: QP619.D53
- DNA microarrays
  - Animal biochemistry: QP624.5.D726
- DNA polymerases
  - Animal biochemistry: QP606.D46
- DNA probes
  - Animal biochemistry: QP624.5.D73
  - Microbiology: QR69.D54
- DNA restriction enzymes
  - Animal biochemistry: QP609.R44
- DNA topoisomerases
  - Animal biochemistry: QP616.D56
- DNA vaccines: QR189.5.D53
- DNA viruses
  - Virology: QR394.5
- Dobsonflies
  - Zoology: QL514.7.C67
- Docodonta
  - Paleozoology: QE882.D6
- Docosahexaenoic acid
  - Animal biochemistry: QP752.D63
- Documentation
  - Computer science: QA76.9.D6
  - Ecology: QH541.15.D6
- Documentation of software: QA76.76.D63
- Dodder
  - Botany: QK495.C967
- Dodos
  - Zoology: QL696.C67
- Dogbane
  - Botany: QK495.A66
- Dogfish shark
  - Laboratory manuals: QL813.F57
- Dogfish sharks: QL638.95.S84
- Dogs
  - Anecdotes and stories: QL795.D6

## INDEX

- Dogs
  - Laboratory manuals: QL813.D64
  - Zoology: QL737.C22
- Dogwood
  - Botany: QK495.C785
- Dolabriferidae: QL430.5.D55
- Dolichopodidae: QL537.D6
- Dolichopsyllidae: QL599.7.D6
- Dolomite: QE471.15.D6
  - Mineralogy: QE391.D6
- Dolphinfishes: QL638.C795
- Dolphins
  - Anecdotes and stories: QL795.D7
  - Zoology: QL737.C432
- Dominance
  - Genetics: QH447.2
- Donacidae: QL430.7.D65
- Donaciidae: QL596.D6
- DOPA
  - Animal biochemistry: QP563.D5
- Dopamine
  - Animal biochemistry: QP563.D66
- Doped semiconductors: QC611.8.D66
- Doping
  - Semiconductor physics: QC611.6.D6
- Doradidae: QL638.D6
- Dorididae: QL430.5.D6
- Dories
  - Zoology: QL638.Z4
- Dormancy
  - Biology: QH523
  - Effect on plants: QK761
- Dormice: QL737.R656
- Dorsal ventricular ridge
  - Anatomy: QL938.D65
- Doryanthaceae: QK495.D67
- Dorylidae: QL537.P57
- DOS
  - Computer software
    - Operating systems: QA76.774.D67
- Dothideaceae: QK623.D72
- Dothideales: QK623.D74
- Double layer, Electric
  - Electrochemistry: QD564
- Double layers
  - Astrophysics: QB462.72
- Double refraction
  - Optics: QC426.8.D68
- Double salts
  - Inorganic chemistry: QD191
- Double star systems theory
  - Celestial mechanics: QB421
- Double stars: QB821+
- Douglasiidae: QL561.D6
- Dover demon: QL89.2.D68
- Doves
  - Zoology: QL696.C63
- Dragonets: QL638.C15
- Dragonflies
  - Paleozoology: QE832.A53
  - Zoology: QL520+
- Drawings of the moon
  - Descriptive astronomy: QB595
- Drawings of the planets
  - Descriptive astronomy: QB605
- Dreaming
  - Physiology: QP426
- Dredging
  - Aquatic biology: QH90.57.D7
  - Effect on plants and animals: QH545.D7
  - Marine biology: QH91.57.D7
- Dredging (Fisheries)
  - Effect on plants and animals: QH545.D713
- Dredging spoil
  - Effect on plants and animals: QH545.D72
- Dreissenidae
  - Paleozoology: QE812.D7
- Dreissenidae: QL430.7.D8
- Drepanaspidae
  - Paleozoology: QE852.D7
- Drepaneidae: QL638.D73
- Drepanidae: QL561.D7
- Drepanididae: QL696.P243
- Drepanosiphidae: QL523.D74
- Drift
  - Geology: QE579
  - Plasma physics: QC718.5.D7
- Drift chambers
  - Nuclear physics: QC787.D74
- Drilidae: QL596.D67
- Drilling muds
  - Effect on plants and animals: QH545.D74
- Drilling platforms
  - Effect on plants and animals: QH545.D75
- Drinking
  - Physiology: QP150
- Driving clocks
  - Astronomical instruments: QB97
- DRL (Computer program language): QA76.73.D25
- Dromadidae: QL696.C44
- Dromiceidae: QL696.C34
- Drongos: QL696.P2427
- Droppings, Animal: QL768
- Drops
  - Fluid mechanics: QC156
- Droseraceae: QK495.D76
- Drosophila
  - Experimental genetics: QH470.D7
- Drosophilidae: QL537.D76
- Drought tolerance
  - Plant physiology: QK754.7.D75
- Droughts
  - Effect on plants: QK754.7.D75
  - Meteorology: QC929.2+

## INDEX

- Drug resistance
  - Microbiology: QR177
- Drug use
  - Animals: QL756.7
- Drugs
  - DNA-ligand interactions: QP624.75.D77
- Drums (Fishes)
  - Zoology: QL638.S34
- Drying
  - Microbiology: QR69.F7
- Dryinidae: QL568.D7
- Dryomyzidae: QL537.D79
- Dryopidae: QL596.D7
- Dryopteridaceae: QK524.D79
- Dualism (Physics): QC6.4.D8
- Dubnium
  - Chemical element: Q1 .D2
- Duckeodendraceae: QK495.D9
- Ducks
  - Zoology: QL696.A52
- Ducks, Wild
  - Anecdotes and stories: QL795.B57
- Duckweed
  - Botany: QK495.L527
- Ductless glands
  - Anatomy: QL868
  - Human anatomy: QM371
- Ducts, Bile
  - Physiology: QP185.3
- Ducts, Excretory
  - Anatomy: QL873.5
- Dueteromycetes: QK625.A1+
- Dugongidae: QL737.S62
- Dugongs
  - Zoology: QL737.S62
- Dulidae: QL696.P2435
- Dunaliellaceae: QK569.P65
- Dunes
  - Biogeography: QH88.5
  - Botany: QK938.D9
- Duodecimal system: QA141.5.A1+
- Duplication
  - Chromosomal mutation: QH462.D8
- Duplication of the cube
  - Elementary geometry: QA469
- Durangite
  - Mineralogy: QE391.D8
- Durango root: QK495.D33
- Dussumieriidae
  - Zoology: QL638.C64
- Dust
  - Atmospheric pollutants: QC882.5
  - Microbiology: QR101
- Dust influences
  - Meteorology: QC929.D9
- Dust storms
  - Mars (Planet): QB643.D87
- Dusty plasmas
  - Plasma physics: QC718.5.D84
- Dusty-wings: QL513.C65
- Dutchman's pipe
  - Botany: QK495.A688
- Dwaft galaxies: QB858
- Dwarf boas: QL666.O68
- Dwarf novae: QB843.D85
- Dwarf pipe snakes: QL666.O6265
- Dwarf planets: QB698+
- Dwarf stars: QB843.D9
- Dye plants
  - Botany: QK98.7.A1+
- Dylan (Computer program language): QA76.73.D95
- Dynamic climatology: QC981.7.D94
- Dynamic geology: QE517+
- Dynamic meteorology: QC880+
- Dynamics
  - Analytic mechanics: QA843+
  - Cloud physics: QC921.6.D95
  - Elementary particle physics: QC793.3.D9
  - Philosophy of science: Q175.32.D96
  - Physics: QC133+
  - Plasma physics: QC718.5.D9
- Dynamics, Molecular
  - Animal biochemistry: QP517.M65
- Dynamics of a particle
  - Analytic mechanics: QA851+
- Dynamics, Stellar: QB810+
- Dynastidae: QL596.D85
- Dysderidae: QL458.42.D9
- Dysentery
  - Microbiology: QR201.D9
- Dysodiidae: QL523.D9
- Dysommidae: QL638.D93
- Dysomminidae: QL638.D95
- Dysphaniaceae: QK495.D95
- Dysprosium
  - Chemical element: Q1 .D8
- Dystiscidae: QL596.D9
- Dystrophin
  - Animal biochemistry: QP552.D95

## E

- E region
  - Meteorology: QC881.2.E2
- Eagle rays: QL638.85.M9
- Ear
  - Anatomy: QL948
  - Human anatomy: QM507
- Ear labyrinths
  - Physiology: QP471+
- Eared seals
  - Zoology: QL737.P63
- Early stars: QB843.E2



## INDEX

- Earth
  - Age: QE508
  - Crust: QE511
  - Internal structure: QE509+
  - Mean density: QB341
  - Physical history: QE501
- Earth as a planet: QB630+
- Earth capture of the moon: QB392.C3
- Earth currents
  - Geomagnetism: QC845
- Earth interior: QE509+
- Earth, Mathematical theory of the figure of the: QB283
- Earth movements
  - Geology: QE598+
- Earth radiation: QC809.T4
- Earth resistance: QC809.E15
- Earth temperature, Interior: QE509.5
- Earth tides: QC809.E2
- Earthquake prediction: QE538.8
- Earthquakes
  - Geology: QE531+
  - Geomagnetism: QC843
- Earwigs
  - Paleozoology: QE832.D47
  - Zoology: QL510+
- EasyLanguage (Computer program language):
  - QA76.73.E27
- Eating
  - Physiology: QP147
- Ebenaceae: QK495.E25
- Ebola virus disease
  - Microbiology: QR201.E16
- Ebony
  - Botany: QK495.E25
- Ebriida: QL368.E2
- Ebullition
  - Physics: QC304
- Ecacanthothripidae: QL598.3.E3
- Ecaudata: QL668.E2+
  - Paleozoology: QE868.A5
- Eccrinales: QK621.E3
- Ecdysone
  - Animal biochemistry: QP572.E25
- Ecdysteroids
  - Animal biochemistry: QP572.E27
- Echeneidae: QL638.E2
- Echidnas: QL737.M73
- Echimyidae: QL737.R65
- Echimyopodidae: QL458.2.E45
- Echinodera: QL391.K5
- Echinodermata
  - Paleozoology: QE781+
  - Zoology: QL381+
- Echinodontiaceae: QK629.E34
- Echinoidea: QL384.E2
  - Paleozoology: QE783.E2
- Echinophthiriide: QL570.3.E3
- Echinorhinidae: QL638.95.S84
- Echinosomatidae: QL510.3.E3
- Echiura: QL391.E2
- Echo scattering layers
  - Marine biology: QH91.8.E3
- Echoes
  - Radar meteorology: QC973.8.E3
- Eclipses
  - Geomagnetism: QC837
  - Spectroscopy: QB551
- Eclipses, Lunar: QB579
- Eclipses, Prediction of: QB175+
- Eclipses, Solar: QB541+
- Ecliptic, Determination of the
  - Spherical astronomy: QB171
- Eclogite: QE475.E25
- Ecohydrology: QH541.15.E19
- Ecological assessment (Biology): QH541.15.E22
- Ecological genetics: QH456
- Ecological heterogeneity: QH541.15.E24
- Ecological integrity
  - Biology: QH541.15.E245
- Ecological reserves: QH75+
- Ecological surveys: QH541.15.S95
- Ecological zones: QH541.15.E248
- Ecology
  - Algae: QK568.E26
  - Biology: QH540+
  - Birds: QL698.95
  - Fishes: QL639.8
  - Fungi: QK604.2.E26
  - Insects: QL496.4
  - Invertebrates: QL364.4
  - Lepidoptera: QL562.6
  - Mammals: QL739.8
  - Reptiles and amphibians: QL669.8
- Econometric models
  - Scientific research: Q180.55.E25
- Economic aspects
  - Computer science: QA76.9.E25
  - Fungi: QK604.2.E27
  - Scientific research: Q180.55.E25
- Economic biology: QH705+
- Economic ecology: QH541.15.E25
- Ecophysiology
  - Ecology: QH541.15.E26
  - Fungi: QK604.2.E28
- Ecophysiology, Animal: QP82+
- Ecophysiology, Plant: QK717
- Ecosystem health: QH541.15.E265
- Ecosystem management: QH75+
- Ecosystem services: QH541.15.E267
- Ecosystems, Software: QA76.76.S62
- Ecotones
  - Ecology: QH541.15.E27
- Ecstasy (Drug)
  - Animal biochemistry: QP801.E28

## INDEX

- Ectobiidae: QL505.7.E3
- Ectomycorrhizas
  - Botany: QK604.2.M92
- Ectoprocta
  - Zoology: QL396+
- Ectrephidae: QL596.E3
- EDDP (Pyrrolidine derivative)
  - Animal biochemistry: QP801.E325
- Eddy flux
  - Meteorology: QC880.4.T8
- Edema, Malignant
  - Microbiology: QR201.E2
- Edentata: QL737.E2+
  - Paleozoology: QE882.E2
- Edestidae
  - Paleozoology: QE852.E55
- Edge computing
  - Digital computers: QA76.583
- Edible fungi
  - Botany: QK617
- Edible plants
  - Botany: QK98.5.A1+
- Edible plants and animals: QH82+
- Edible wild plants
  - Botany: QK98.5.A1+
- Edrioasteroidea
  - Paleozoology: QE783.E3
- Education, Competency-based
  - Science (General): Q182.6
- Eelpouts: QL638.Z6
- Eels
  - Zoology: QL637.9.A5
- Effect of roads
  - Birds: QL698.26
- Effective interactions
  - Nuclear physics: QC794.8.E35
- Eggs
  - Birds: QL675
  - Dinosaurs: QE861.6.E35
  - Fishes: QL639.25
  - Microbiology: QR116
  - Nutrition: QP144.E44
- Eggs, Fossil: QE875
- Egyptian early works on mathematics: QA30.3
- Ehrlichiosis
  - Microbiology: QR201.E45
- Eicosanoids
  - Animal biochemistry: QP752.E53
- Eigenvalues
  - Matrices: QA193
- Eigenvectors
  - Matrices: QA193
- Einsteinium
  - Chemical element: Q1 .E7
- El Niño Current
  - Effect on plants and animals: QH545.E35
- Elacatidae: QL596.E38
- Elachistidae: QL561.E4
- Elaeagnaceae: QK495.E33
- Elaeocarpaceae: QK495.E35
- ELAN (Computer program language): QA76.73.E38
- Elaphomycetaceae: QK623.E4
- Elapidae: QL666.O64
- Elasmidae: QL568.E4
- Elasmobranchii
  - Paleozoology: QE852.C52
- Elastases
  - Animal biochemistry: QP609.E38
- Elastic properties
  - Crystals: QD933
  - Solids: QC191
- Elastic rebound theory
  - Seismology: QE539.2.E42
- Elastic scattering
  - Nuclear interactions: QC794.6.S3
- Elastic waves
  - Geophysics: QC809.E5
  - Seismology: QE538.5
- Elasticity
  - Analytic mechanics: QA931+
  - Crystallography: QD933
- Elastin
  - Animal biochemistry: QP552.E4
- Elateridae: QL596.E4
- Elatinaceae: QK495.E37
- Electophori: QC544.E45
- Electret ionization chambers
  - Nuclear physics: QC787.E37
- Electrets: QC585.8.E4
- Electric charge and distribution: QC581.E4
- Electric coils
  - Electrodynamics: QC645
- Electric conductivity
  - Physics: QC610.3+
- Electric corona: QC642.5+
- Electric current
  - Physics: QC601+
- Electric discharge
  - Dielectrics: QC585.7.E43
  - Physics: QC701+
- Electric discharge through gases: QC710+
- Electric displacement
  - Electric waves: QC665.E36
- Electric double layer
  - Electrochemistry: QD564
- Electric eel: QL638.E34
- Electric field of the sun: QB539.E4
- Electric fields
  - Electric waves: QC665.E38
  - Plasma physics: QC718.5.E37
- Electric fishes: QL639.1
- Electric furnace operations
  - Inorganic chemistry: QD157
  - Organic chemistry: QD277

## INDEX

- Electric impedance measurement
  - Microbiology: QR69.E43
- Electric measurements
  - Physics: QC535+
- Electric oscillations
  - Physics: QC660.5+
- Electric power plants
  - Effect on plants and animals: QH545.E38
- Electric properties
  - Cells: QH645
  - Condensed matter physics: QC173.458.E43
  - Crystals: QD939
  - Cytology: QH601.15
  - Liquids: QC145.4.E45
  - Petrology: QE431.6.E4
  - Polymers: QD381.9.E38
  - Solid state physics: QC176.8.E35
  - Thin films: QC176.84.E5
- Electric rays
  - Fishes: QL638.87+
- Electric resistance
  - Physics: QC610.6+
- Electric resonance: QC613
- Electric thermometers: QC274
- Electric waves
  - Physics: QC660.5+
- Electrical phenomena in the atmosphere: QC960.5+
- Electricity
  - Effect on cells: QH655
  - Effect on plants: QK758
  - Physics: QC501+
- Electrification
  - Cloud physics: QC921.6.E4
- Electrocapillary phenomena: QC577
- Electrocardiography: QP112.5.E4
- Electrocatalysis
  - Electrochemistry: QD569
- Electrochemical analysis
  - Animal biochemistry: QP519.9.E42
  - Organic chemistry: QD272.E4
- Electrochemical laboratories: QD558+
- Electrochemistry
  - Analytical chemistry: QD115+
  - Organic compounds: QD273
  - Physical chemistry: QD551+
- Electrochemistry of supramolecular compounds
  - Chemistry: QD880
- Electrode phenomena
  - Electrochemistry: QD571
- Electrodes, ion selective
  - Animal biochemistry: QP519.9.E43
  - Cytology: QH585.5.E43
- Electrodynamics: QC630+
  - Elementary particle physics: QC793.3.E4
  - Geophysics: QC809.E55
  - Plasma physics: QC718.5.E4
- Electrodynamometer: QC544.E3
- Electroencephalography
  - Neurophysiology: QP376.5
- Electrokinetics
  - Physics: QC625
- Electroluminescence
  - Radiation physics: QC480
- Electrolysis
  - Physical chemistry: QD551+
- Electrolyte solutions
  - Electrochemistry: QD565
- Electrolytes
  - Analytical chemistry: QD139.E4
  - Bacterial physiology: QR97.E5
  - Electrochemistry: QD565
  - Physiological effect: QP82.2.E4
- Electrolytic cells
  - Electrochemistry: QD568
- Electromagnetic fields
  - Electric waves: QC665.E4
- Electromagnetic interactions
  - Nuclear physics: QC794.8.E4
- Electromagnetic theory: QC669+
- Electromagnetic waves
  - Effect on plants and animals: QH545.E4
  - Physics: QC660.5+
  - Physiological effect: QP82.2.E43
- Electromagnetics
  - Plasma physics: QC718.5.E45
- Electromagnetism
  - Elementary particle physics: QC793.3.E45
- Electromagnets: QC761+
- Electromechanical analogies
  - Chemistry: QD39.3.E4
  - Electric waves: QC665.E45
  - Heat transfer: QC320.22.E4
  - Magnetism: QC754.2.E3
- Electrometer: QC544.E4
- Electromotive force
  - Electrochemistry: QD562.E44
  - Physics: QC618
- Electron accelerators
  - Nuclear physics: QC787.E39
- Electron diffraction
  - Analytical chemistry: QD79.E4
  - Quantitative analysis: QD117.E4
- Electron gas
  - Statistical physics: QC175.16.E6
- Electron-hole droplets
  - Semiconductor physics: QC611.6.E43
- Electron holography: QC449.3
- Electron impact ionization
  - Electric discharge: QC702.7.E38
- Electron microprobe
  - Analytical chemistry: QD98.E4
  - Quantitative analysis: QD117.E42
- Electron microscopes: QH212.E4

## INDEX

- Electron microscopy
  - Crystallography: QD906.7.E37
  - Microbiology: QR68.5.E45
  - Virology: QR387.5
- Electron nuclear double resonance
  - Physics: QC762.6.E45
- Electron oscillations and resonances
  - Plasma physics: QC718.5.W3
- Electron paramagnetic resonance
  - Biological research: QH324.9.E36
  - Magnetism: QC763
- Electron paramagnetic resonance spectroscopy
  - Analytical chemistry: QD96.E4
  - Animal biochemistry: QP519.9.E433
- Electron probe microanalysis
  - Animal biochemistry: QP519.9.E4333
  - Biological research: QH324.9.E38
  - Quantitative analysis: QD117.E42
- Electron spectroscopy
  - Analytical chemistry: QD96.E44
  - Physics: QC454.E4
- Electron transport
  - Semiconductor physics: QC611.6.E45
- Electronic computers: QA75.5+
- Electronic computers, Use in mathematics: QA76.95
- Electronic data processing: QA75.5+
  - Algebra: QA155.7.E4
  - Astronomy: QB51.3.E43
  - Botany: QK46.5.E4
  - Ecology: QH541.15.E45
  - Geodesy: QB297
  - Mathematical physics: QC20.7.E4
  - Probabilities: QA273.19.E4
- Electronic information resources
  - Science study and teaching: Q182.7
- Electronic spreadsheets
  - Mathematics teaching: QA20.E43
- Electronic states
  - Solid state physics: QC176.8.E4
- Electronic information resources
  - Science: Q224.5
- Electronics in astronomy: QB127+
- Electrons
  - Elementary particle physics: QC793.5.E62+
- Electrooptics: QC673+
- Electrophiles
  - Organic analysis: QD271.35.E54
- Electrophoresis
  - Analytical chemistry: QD79.E44
  - Animal biochemistry: QP519.9.E434
  - Biological research: QH324.9.E4
  - Blood physiology: QP99.5.E5
  - Cytology: QH585.5.E46
  - Electrochemistry: QD562.E45
  - Organic chemistry: QD272.E43
  - Quantitative analysis: QD117.E45
- Electrophoresis, Capillary
  - Animal biochemistry: QP519.9.C36
- Electrophoridae: QL638.E34
- Electrophysiology: QP112.5.E46
  - Biology: QH517
  - Fishes: QL639.1
  - Physiology: QP341
  - Plant physiology: QK845
- Electroporation
  - Cytology: QH585.5.E48
- Electroreceptors
  - Physiology: QP447.5
- Electrostatic accelerators
  - Nuclear physics: QC787.E4
- Electrostatic analyzers
  - Nuclear physics: QC787.E42
- Electrostatic lenses: QC544.E5
- Electrostatics
  - Physics: QC570+
  - Plasma physics: QC718.5.E48
- Electroweak interactions
  - Nuclear physics: QC794.8.E44
- Electrum
  - Mineralogy: QE391.E43
- Elementary geometry: QA451+
- Elementary mathematics: QA101+
- Elementary particle physics: QC793+
- Elements, Chemical
  - Inorganic chemistry: QD181.A+
  - Physical chemistry: QD466+
- Elements, Individual
  - Cycles: QH344+
- Elenchidae: QL599.3.E4
- Elephant shrews: QL737.M242
- Elephantidae: QL737.P98
- Elephants
  - Anecdotes and stories: QL795.E4
  - Zoology: QL737.P98
- ELF electromagnetic fields
  - Effect on plants and animals: QH545.E42
- Elimination
  - Matrices: QA192
- Elimination reactions
  - Organic chemistry: QD281.E4
- Eliminative behavior
  - Animals: QL780
- Elixir of life
  - Alchemy: QD26.5.E4
- Ellesmeroceratidae
  - Paleozoology: QE807.E4
- Ellipsoids
  - Statics: QA827
- Ellipsometry
  - Biological research: QH324.9.E44
- Elliptic curves: QA567.2.E44
- Elliptic functions
  - Analysis: QA343

## INDEX

- Elliptic integrals
  - Analysis: QA343
- Elliptical galaxies: QB858.4
- Ellobiidae: QL430.5.E45
- Elm
  - Botany: QK495.U4
- Elmidae: QL596.E45
- Elodea
  - Botany: QK495.H86
- Elopidae: QL638.E4
- Elopiformes: QL637.9.E4
  - Paleozoology: QE852.E65
- Elysiidae: QL430.5.E48
- Emballonuridae: QL737.C525
- Embedding of microscope specimens: QH234
- Embedding theorems
  - Mathematical physics: QC20.7.E48
- Emberizidae: QL696.P2438
- Embiidae: QL539+, QL539.3.E4
- Embiodea
  - Zoology: QL539+
- Embioptera
  - Paleozoology: QE832.E52
  - Zoology: QL539+
- Embiotocidae: QL638.E5
- Embolemyidae: QL568.E5
- Embryo
  - Development: QL971+
  - Physiology: QP277
- Embryology
  - Human anatomy: QM601+
  - Invertebrates: QL958
  - Plant anatomy: QK665
  - Vertebrates: QL959
  - Zoology: QL951+
- Embryonic stem cells
  - Cytology: QH588.S83
- Embryos
  - Plant anatomy: QK665
- Embryosacs
  - Plant anatomy: QK665
- Emeralds
  - Mineralogy: QE394.E5
- Emergence (Philosophy)
  - Philosophy of science: Q175.32.E44
- Emission, Secondary ion
  - Electric discharge: QC702.7.E4
- Emission spectroscopy
  - Analytical chemistry: QD96.E46
  - Physics: QC454.E46
- Emmelichthyidae: QL638.E53
- Emotions
  - Animals: QL785.27
  - Neurophysiology: QP401
- Empetraceae: QK495.E44
- Empididae: QL537.E4
- Employment surveys
  - Science: Q148
- Emulsin
  - Animal biochemistry: QP609.E4
- Emulsion polymers
  - Organic chemistry: QD382.E48
- Emus
  - Zoology: QL696.C34
- Emydidae: QL666.C547
- Enantiornithiformes
  - Paleozoology: QE872.E52
- Encephalic photoreceptors: QP384.3
- Encephalitis vaccines: QR189.5.E5
- Encke comet: QB723.E3
- Encryption, Data
  - Computer science: QA76.9.D335
- Encyrtidae: QL568.E6
- End of the universe (Cosmology): QB991.E53
- End of the world
  - Astronomy: QB638.8
- End-user computing: QA76.9.E53
- Endangered amphibians
  - Zoology: QL644.7+
- Endangered birds
  - Zoology: QL676.7
- Endangered bryophytes: QK533.4+
- Endangered ecosystems
  - Natural history: QH75+
- Endangered fishes: QL617.7+
- Endangered fungi
  - Botany: QK604.2.E48
- Endangered invertebrates: QL362.45+
- Endangered mammals: QL706.8+
- Endangered mollusks: QL405.4+
- Endangered plants
  - Botany: QK86+
- Endangered reptiles
  - Zoology: QL644.7+
- Endangered species
  - General: QH75+
  - Zoology: QL81.5+
- Endlichite
  - Mineralogy: QE391.E5
- Endocarditis, Bacterial
  - Microbiology: QR201.E6
- Endocardium
  - Physiology: QP114.E53
- Endoceratoidea
  - Paleozoology: QE807.E5
- Endocrine genetics: QP187.5
- Endocrine glands
  - Human histology: QM576
  - Physiology: QP187.A1+
- Endocrinology
  - Physiology: QP187.A1+
- Endocrinology, Behavioral: QP356.45
- Endocrinology, Developmental: QP187.6

## INDEX

- Endocrinology, Molecular: QP187.3.M64
- Endocrinology, Reproductive: QP252+
- Endodontidae: QL430.5.E5
- Endogonaceae: QK621.E47
- Endomycetaceae: QK623.E56
- Endomychidae: QL596.E5
- Endomycorrhizas
  - Botany: QK604.2.M92
- Endonucleases
  - Animal biochemistry: QP609.E44
- Endopeptidases
  - Animal biochemistry: QP609.P75
- Endophytic fungi: QK604.2.E53
- Endoplasmic reticulum
  - Cytology: QH603.E6
- Endoprocta
  - Zoology: QL400+
- Endorphins
  - Animal biochemistry: QP552.E53
- Endosomes
  - Cytology: QH603.E63
- Endothelins
  - Animal biochemistry: QP552.E54
- Endothelium
  - Human histology: QM562
  - Physiology: QP88.45
- Endotoxins
  - Animal biochemistry: QP632.E4
- Endowments
  - Science research: Q180.55.G7
- Endromidae: QL561.E5
- Eneopteridae: QL508.E5
- Energetic particles, Solar: QB526.S65
- Energy
  - Cells: QH635
  - Sound waves: QC243.3.E5
- Energy and force (Physics): QC71.82+
- Energy budget
  - Geophysics: QC809.E6
- Energy development
  - Effect on plants and animals: QH545.E53
- Energy dissipation
  - Condensed matter physics: QC173.458.E53
- Energy industries
  - Effect on plants and animals: QH545.E53
- Energy levels
  - Quantum chemistry: QD462.6.E53
  - Radioactive substances: QC795.8.E5
- Energy loss
  - Nuclear fission: QC790.4.E6
- Energy metabolism
  - Nutrition: QP176
- Energy ranges
  - Elementary particle physics: QC793.3.E5
- Energy transfer: QC73.8.E53
- Engineering, Software: QA76.758
- Engraulidae: QL638.E55
- ENIAC: QA76.8.E53
- Enicocephalidae: QL523.E65
- Enkephalins
  - Animal biochemistry: QP552.E55
- Enolase
  - Animal biochemistry: QP613.E56
- Enoplosidae: QL638.E556
- Enoploteuthidae: QL430.3.E56
- Ensign scales
  - Zoology: QL527.O7
- Ensign wasps: QL568.E9
- Enstatite
  - Mineralogy: QE391.E6
- Entanglement
  - Quantum mechanics: QC174.17.E58
- Enterobacteriaceae: QR82.E6
- Enterobacterial vaccines: QR189.5.E53
- Enterococcal infections
  - Microbiology: QR201.E64
- Enteropneusta
  - Paleozoology: QE840.5
- Enteroviruses
  - Virology: QR410.2.E55
- Entertainment computing: QA76.9.E57
- Enthalpy
  - Thermodynamics: QC318.E55
- Entire functions
  - Theory of functions: QA353.E5
- Entoconchidae: QL430.5.E55
- Entodiniomorphida: QL368.E5
- Entolomataceae: QK629.E56
- Entomobryidae: QL503.E5
- Entomology as a profession: QL468.4
- Entomophthoraceae: QK621.E49
- Entomostraca
  - Paleozoology: QE817.E5
- Entophlyctaceae: QK621.E5
- Entophysalidaceae: QR99.7.E57
- Entoprocta
  - Zoology: QL400+
- Entotrophi: QL503.4.A1+
- Entropy
  - Thermodynamics: QC318.E57
- Enumeration problems
  - Algebra: QA164.8
- Enumerative geometry: QA607
- Envelope
  - Viruses: QR454
- Environment
  - Effect on animals: QP82+
- Environment and heredity
  - Genetics: QH438.5
- Environmental aspects
  - Computer science: QA76.9.E58
  - Scientific research: Q180.55.E58
- Environmental effects
  - Virology: QR478.A1+

## INDEX

- Environmental factors
  - Bacterial physiology: QR97.A1+
- Environmental geochemistry: QE516.4
- Environmental geology: QE38
- Environmental influences
  - Ecology: QH545.A1+
- Environmental sex determination
  - Physiology: QP278.53
- Environmentally sensitive areas
  - Natural history: QH75+
- Enzymatic analysis
  - Animal biochemistry: QP519.9.E46
  - Biological research: QH324.9.E5
  - Organic chemistry: QD272.E5
- Enzymatic proteolysis
  - Animal biochemistry: QP609.P78
- Enzyme activation
  - Animal biochemistry: QP601.45
- Enzyme inhibition
  - Animal biochemistry: QP601.5
- Enzyme kinetics
  - Animal biochemistry: QP601.3
- Enzyme-linked immunosorbent assay
  - Animal biochemistry: QP519.9.E48
  - Microbiology: QR69.E58
- Enzyme regulation
  - Animal biochemistry: QP601.4+
- Enzymes
  - Animal biochemistry: QP601+
  - Microbiology: QR90
  - Phytochemistry: QK896
  - Plant constituent: QK898.E58
  - Viruses: QR462
- Eocene
  - Paleobotany: QE927.2
  - Paleontology: QE737
  - Stratigraphy: QE692.2
- Eocene-Oligocene boundary
  - Stratigraphy: QE692.8
- Eopsaltriidae: QL696.P2439
- Eosentomidae: QL503.6.E6
- Eosin
  - Organic chemistry: QD441
- Eosinophils
  - Immunology: QR185.8.E58
  - Physiology: QP95.3
- Eotomariidae
  - Paleozoology: QE809.E55
- Epacridaceae: QK495.E45
- Epallagidae: QL520.3.E6
- Epeirogeny: QE512
- Epermeniidae: QL561.E74
- Ephedraceae: QK494.5.E5
- Ephemerellidae: QL505.3.E64
- Ephemeridae: QL505.3.E65
- Ephemerides
  - General: QB7+
- Ephemerides
  - Planets: QB603.E6
- Ephemeroptera
  - Paleozoology: QE832.E65
  - Zoology: QL505+
- Ephippidae: QL638.E6
- Ephydriidae: QL537.E7
- Epicopeiidae: QL561.E75
- Epidermal growth factor
  - Animal biochemistry: QP552.E59
- Epidermoptidae: QL458.2.E6
- Epidote
  - Mineralogy: QE391.E8
- Epigonidae: QL638.E62
- Epilampridae: QL505.7.E7
- Epimarptidae: QL561.E754
- Epiophlebiidae: QL520.3.E65
- Epipaschiidae: QL561.E757
- Epiphytes
  - Plant ecology: QK922
- Epiphytic lichens: QK584.6.E64
- Epiplemiidae: QL561.E758
- Epipyropidae: QL561.E759
- Episomes: QH452.5
- Epistasis
  - Genetics: QH450.7
- Epitaxy, Molecular beam: QC611.6.M64
- Epithelium
  - Human histology: QM561
  - Physiology: QP88.4
- Epitoniidae: QL430.5.E6
  - Paleozoology: QE809.E64
- Epoxy polymers
  - Organic chemistry: QD383.E66
- Epstein-Barr virus
  - Virology: QR400.2.E68
- Epstein-Barr virus diseases
  - Microbiology: QR201.E75
- Equation of time
  - Astronomy: QB217
- Equations of motion
  - Meteorology: QC880.4.E7
  - Relativity physics: QC173.59.E68
- Equations of state
  - Astrophysics: QB466.E65
  - Atomic physics: QC173.4.E65
  - Physics: QC307
- Equations, Theory of
  - Algebra: QA211+
- Equatorial mountings
  - Astronomical instruments: QB97
- Equidae: QL737.U62
- Equilibrium
  - Physiology: QP471+
  - Plasma physics: QC718.5.E66
  - Statics: QA831
  - Superconductors: QC611.97.E69

## INDEX

- Equilibrium, Punctuated
  - Biology: QH398
- Equipment and supplies
  - Astronomical photography: QB121.5
- Equipollence
  - Analytic geometry: QA556.5
- Equisetaceae: QK524.E6
- Equisetales
  - Paleobotany: QE965
- Equisetophyta
  - Paleobotany: QE965
- Erbium
  - Chemical element: Q1 .E6
- Eremaeidae: QL458.2.E73
- Eremobatidae: QL458.82.E7
- Eremolepidaceae: QK495.E64
- Erepsin
  - Animal biochemistry: QP609.E7
- Eresidae: QL458.42.E7
- Erethizontidae: QL737.R652
- Ergocalciferol
  - Animal biochemistry: QP772.E74
- Ergodic theory: QA611.5
  - Integral calculus: QA313
- Ericaceae: QK495.E68
- Erinaceidae: QL737.E753
- Erinaceomorpha: QL737.E75+
  - Paleozoology: QE882.E75
- Erinnidae: QL537.X9
- Eriocaulaceae: QK495.E685
- Eriococcidae: QL527.E73
- Eriocraniidae: QL561.E8
- Eriophyidae: QL458.2.E75
- Eriosomatidae: QL527.E78
- ERLANG (Computer program language): QA76.73.E75
- Ermine moths: QL561.Y7
- Erosion
  - Geology: QE571+
- Erosion, Aerial
  - Geology: QE597
- Erosion, Aqueous
  - Geology: QE581
- Erosion, Glacial
  - Geology: QE575+
- Erosion, Soil
  - Effect on plants and animals: QH545.S64
- Erotylidae: QL596.E7
- Erpodiaceae: QK539.E76
- Error messages
  - Computer science: QA76.9.E77
- Errors of adjustment
  - Astronomy: QB154
- Errors, Scientific: Q172.5.E77
- Errors, Theory of
  - Mathematics: QA275
- Erysiphaceae: QK623.E7
- Erysiphales: QK623.E73
- Erythraeidae: QL458.2.E78
- Erythrinidae: QL638.E65
- Erythrocytes
  - Physiology: QP96+
- Erythroxyllaceae: QK495.E82
- Escherichia
  - Experimental genetics: QH470.E8
- Escherichia coli infections
  - Microbiology: QR201.E82
- Eschrichtiidae: QL737.C425
- Eskers
  - Geology: QE578
- Esocidae: QL638.E7
- Esophagus
  - Anatomy: QL861
  - Human anatomy: QM331
  - Physiology: QP146+
- Esphalmenidae: QL510.3.E8
- Essences and essential oils
  - Effect on plants: QK753.E7
  - Plant constituent: QK898.E75
  - Spectra: QC463.E68
- Essential fatty acids
  - Animal biochemistry: QP752.E84
- Essential oils
  - Biochemistry: QD416+
- Esterases
  - Animal biochemistry: QP609.E8
- Esters
  - Aliphatic compounds: QD305.A2
  - Aromatic compounds: QD341.A2
  - Spectra: QC463.E69
- Estimation theory
  - Mathematical statistics: QA276.8
- Estimation theory (Statistical physics): QC174.85.E88
- Estradiol
  - Animal biochemistry: QP572.E8
- Estrildidae: QL696.P244
- Estrogen
  - Animal biochemistry: QP572.E85
- Estuaries
  - Ecology: QH541.5.E8
  - Zoology: QL139
- Estuarine ecology: QH541.5.E8
- Estuarine radioecology
  - Ecology: QH543.8
- Ether, Theories of
  - Atomic physics: QC177
- Ethers
  - Aliphatic compounds: QD305.E7
  - Aromatic compounds: QD341.E7
  - Spectra: QC463.E7
- Ethical aspects
  - Computer science: QA76.9.M65
  - Scientific research: Q180.55.M67
- Ethics
  - Science: Q175.35+



## INDEX

- Ethmiidae: QL561.E85  
 Ethnobotany, Applied: QK86.5  
 Ethopolyidae: QL449.55.E8  
 Ethylene  
   Effect on plants: QK753.E8  
   Plant constituent: QK898.E8  
 Etmopteridae: QL638.95.E85  
 Etruscan  
   Astronomy: QB22.3  
 Euacanthidae: QL527.E9  
 Eublepharidae: QL666.L24  
 Eucharididae: QL568.E75  
 Euchiridae: QL596.E76  
 Eucinetidae: QL596.E77  
 Eucleidae: QL561.L54  
 Euclid's Elements for use in schools: QA451  
 Eucnemidae: QL596.E8  
 Eucoilidae: QL568.E77  
 Eucommiaceae: QK495.E84  
 Eucryphiaceae: QK495.E85  
 Eudiometer  
   Chemical laboratories: QD54.E8  
 Eudorniidae: QL510.3.E9  
 Euglenaceae: QK569.E9  
 Euglenidae: QL596.E84  
 Euglenids: QK569.E93  
 Eugregarinida: QL368.E92  
 Eukoeneriidae: QL458.57.E9  
 Eulerian graph theory  
   Algebra: QA166.19  
 Eulimidae: QL430.5.E9  
 Eulipotyphla: QL737.S7+  
   Paleozoology: QE882.S67  
 Eulophidae: QL568.E8  
 Eumenidae: QL568.E84  
 Eumolpidae: QL596.E85  
 Eumycetozoida: QL368.E95  
 Eunosauridae: QE862.E9  
 Euomphalidae: QE809.E9  
 Eupantotheria: QE882.E86  
 Eupatithripidae: QL598.3.E8  
 Eupelmidae  
   Zoology: QL568.E845  
 Euphausiacea: QL444.M338  
 Euphorbiaceae: QK495.E9  
 Euphrosynidae: QL537.M3  
 Eupodidae: QL458.2.E8  
 Eupomatiaceae: QK495.E95  
 Eupteleaceae: QK495.E96  
 Eupterotidae: QL561.E94  
 Eurasian spadefoot toads: QL668.E262  
 Euribiidae: QL537.T42  
 European wildcat  
   Anecdotes and stories: QL795.E94  
 Europium  
   Chemical element: Q1 .E8  
 Eurybrachidae: QL527.E97  
 Eurylaimidae: QL696.P245  
 Eurymerodesmidae: QL449.65.E87  
 Eurypaupodidae: QL449.75.E8  
 Eurypgidae: QL696.G83  
 Eurypharyngidae: QL638.E8  
 Eurypterida  
   Paleozoology: QE826.E8  
 Eurystethidae: QL596.E87  
 Eurytomidae: QL568.E85  
 Euryuridae: QL449.65.E878  
 Euscorpiidae: QL458.72.E88  
 Eusparassidae: QL458.42.H48  
 Eustathiidae: QL458.2.E84  
 Eustheniidae: QL530.3.E9  
 Eustigmatophyceae: QK569.E96  
 Eutaeniophoridae: QL638.E83  
 Euthyrrhaphidae: QL505.7.E9  
 Eutrophication  
   Freshwater biology: QH96.8.E9  
   Marine biology: QH91.8.E87  
 Evaluation in science research: Q180.55.E9  
 Evaluation of computer performance: QA76.9.E94  
 Evaluation of data processing activities: QA76.9.E95  
 Evaluation of software: QA76.76.E93  
 Evaniidae: QL568.E9  
 Evansite  
   Mineralogy: QE391.E9  
 Evaporation  
   Meteorology: QC915.5+  
   Physics: QC304  
 Evaporites: QE471.15.E8  
 Evapotranspiration  
   Meteorology: QC915.5+  
 Even-toed ungulates: QL737.U5+  
 Evening-primrose  
   Botany: QK495.O46  
 Evening star  
   Botany: QK495.L78  
 Event logging  
   Computer science: QA76.9.D3385  
 Evermannellidae: QL638.E87  
 Evolution  
   Algae: QK568.E85  
   Amphibians: QL645.3+  
   Bacteria: QR81.7  
   Biology: QH359+  
   Birds: QL677.3  
   Chordates: QL607.5  
   Fungi: QK604.2.E85  
   Immunology: QR182.2.E94  
   Insects: QL468.7  
   Invertebrates: QL362.75  
   Mammals: QL708.5  
   Microbiology: QR13  
   Mollusca: QL406.7  
   Philosophy of science: Q175.32.E85  
   Plants: QK980+

## INDEX

- Evolution
  - Reptiles: QL645.3+
  - Zoology: QL438.5
- Evolution equations: QA377.3
  - Mathematical physics: QC20.7.E88
- Evolution of galaxies: QB857.5.E96
- Evolution of the sun: QB539.E8
- Evolution, Stellar: QB806
- Evolutionary developmental biology: QH492
- Evolutionary genetics: QH390
- Evolutionary paleobiology: QE721.2.E85
- Evolutionary paleoecology: QE721.2.E87
- Evolutionary programming
  - Electronic computers: QA76.618
- Evorsion
  - Geology: QE587
- eWorld (Online service): QA76.57.E88
- Excavations, Paleontological: QE721.2.P26
- Exchange of meteorological information: QC866.5.E93
- Exchange reactions
  - Chemistry: QD63.E83
- Excipulaceae: QK625.E9
- Excitation
  - Nervous system: QP363
  - Nuclear interactions: QC794.6.E9
- Excited state chemistry: QD461.5
- Exclusive interactions
  - Nuclear and particle physics: QC794.8.E93
- Excretory organs
  - Anatomy: QL872+
- Exercise
  - Endocrine glands: QP187.3.E93
  - Physiology: QP301+
- Exercise effects
  - Heart physiology: QP114.E9
- Exhibitions
  - Botany: QK79+
  - Fungi: QK600.5+
- Exobasidiaceae: QK627.53.E93
- Exobasidiales: QK627.5+
- Exocoetidae: QL638.E9
- Exocrine glands
  - Physiology: QP187.7.A1+
- Exocytosis
  - Cells: QH634.2
- Exopeptidases
  - Animal biochemistry: QP609.P45
- Exosphere
  - Meteorology: QC881.2.E9
- Exotic birds
  - Zoology: QL677.79.E85
- Exotic marine organisms
  - Marine biology: QH91.8.E94
- Exotic nuclei
  - Elementary particle physics: QC793.3.E93
- Expanding universe (Cosmology): QB991.E94
- Expansion
  - Gases: QC164
  - Liquids: QC145.4.E9
  - Pressure, volume and temperature relations: QC281.5.E9
  - Solid state physics: QC176.8.E94
- Expansions
  - Topology: QA611.29
- Expeditions
  - Geology: QE4
  - Natural history: QH11
- Expeditions and voyages, Scientific: Q115+
- Experimental biology: QH324+
- Experimental design
  - Mathematical statistics: QA279+
- Experimental embryology: QL961
- Experimental mechanics
  - Physics: QC120+
- Experimental physiology: QP42+
- Experiments
  - Biology: QH316.5
  - Botany: QK52.6
  - Organic chemistry: QD257.5
  - Space science research: QB500.264
- Expert systems
  - Computer software: QA76.76.E95
- Explanation
  - Philosophy of science: Q175.32.E97
- Expletocystida
  - Paleozoology: QE799.E95
- Exploding wire phenomenon
  - Electric discharge: QC703.7
- Exploration
  - Moon: QB582.5
- Explosion
  - Thermochemistry: QD516
- Exponential functions
  - Analysis: QA342
- Exponential sums
  - Number theory
    - Algebra: QA246.7+
- Exponents
  - Algebra: QA161.E95
- Exterior algebra: QA205
- Exterior lighting
  - Effect on plants and animals: QH545.E98
- External skin
  - Human anatomy: QM484
- Extinct amphibians: QL644.8+
- Extinct animals
  - Zoology: QL88+
- Extinct birds: QL676.8
- Extinct insects: QL467.9
- Extinct mammals: QL707
- Extinct reptiles: QL644.8+
- Extinction
  - Dinosaurs: QE861.6.E95

## INDEX

- Extinction
    - Paleontology: QE721.2.E97
    - Zoology: QL88+
  - Extinction (Biology): QH78
  - Extra-meridian instruments: QB103
  - Extracellular enzymes
    - Animal biochemistry: QP601.6
  - Extracellular matrix proteins
    - Animal biochemistry: QP552.E95
  - Extracellular space
    - Cytology: QH603.E93
  - Extrachromosomal DNA
    - Animal biochemistry: QP624.5.E98
  - Extraction
    - Chemistry: QD63.E88
  - Extragalactic distances: QB857.5.E97
  - Extrapolation
    - Mathematics: QA281
  - Extrapyramidal tracts
    - Neurophysiology: QP370.5
  - Extrasensory perception
    - Animals: QL785.3
  - Extrasolar planets: QB820
  - Extraterrestrial life
    - Astronomy: QB54
  - Extraterrestrial seismology: QB455.5
  - Extreme environments
    - Microbiology: QR100.9
  - Extremities
    - Human embryology: QM695.E95
  - Extremities, Bones of
    - Human anatomy: QM117
  - Eye
    - Anatomy: QL949
    - Human anatomy: QM511
    - Microbiology: QR171.E9
  - Eye movement
    - Neurophysiology: QP477.5
  - Eyeball
    - Neurophysiology: QP476+
  - Eyepieces
    - Astronomical instruments: QB111
  - Eylaidae: QL458.2.E9
- F
- F (Computer program language): QA76.73.F16
  - F region
    - Meteorology: QC881.2.F2
  - Face
    - Human embryology: QM695.F32
  - Face muscles
    - Physiology: QP327
  - Factor analysis
    - Chemistry: QD39.3.F33
    - Mathematical statistics: QA278.5
  - Factor tables: QA51
  - Factorization
    - Number theory: QA242
  - Factorization method
    - Quantum mechanics: QC174.17.F3
  - Factors
    - Algebra: QA161.F3
  - Faculae: QB526.F3
  - Fagaceae: QK495.F14
  - Failures of computer systems: QA76.9.F34
  - Failures of software: QA76.76.F34
  - Fairy shrimps: QL444.B815
  - Fairyflies: QL568.M94
  - Falconidae: QL696.F34
  - Falconiformes: QL696.F3+
  - Falcons
    - Zoology: QL696.F34
  - Falculiferidae: QL458.2.F3
  - False cat shark: QL638.95.P8
  - False coral snakes: QL666.O625
  - False morays: QL638.X45
  - False powerpost beetles: QL596.B5
  - False sunbirds: QL696.P2625
  - False vampires: QL737.C535
  - Familial behavior
    - Animals: QL761.5
  - Family and computers: QA76.9.F35
  - Famous animals: QL793
  - Fangataufa Atoll
    - Geology: QE566.F35
  - Fantails (Birds): QL696.P274
  - Far ultraviolet spectrum
    - Optics: QC459.5
  - Faraday effect: QC675.5.F3
  - Fasciariidae: QL430.5.F2
    - Paleozoology: QE809.F3
  - Fast neutrons
    - Elementary particle physics: QC793.5.F32+
  - Fat-soluble vitamins
    - Animal biochemistry: QP772.F37
  - Fatigue
    - Neurophysiology: QP421
  - Fats
    - Aliphatic compounds: QD305.F2
    - Animal biochemistry: QP752.F3
  - Fatty acid-binding proteins
    - Animal biochemistry: QP552.F37
  - Fatty acids
    - Animal biochemistry: QP752.F35
    - Microbial metabolism: QR92.F3
    - Plant constituent: QK898.F3
  - Fatty oils
    - Aliphatic compounds: QD305.F2
  - Fault-tolerant computing: QA76.9.F38
  - Faults
    - Geology: QE606+
  - Favolaschiaceae: QK629.F37
  - Faye comet: QB723.F2

## INDEX

- Fc receptors: QR185.8.F33
- fd bacteriophage: QR342.2.F37
- Feathers
  - Birds: QL697.4
- Feces
  - Microbiology: QR171.F4
  - Physiology: QP159
- Fecundation
  - Physiology: QP273
  - Plant physiology: QK828
- Fedorovskii method
  - Determinative mineralogy: QE369.F4
- Feeding and feeds
  - Invertebrates: QL364.3
- Feldspar
  - Mineralogy: QE391.F3
- Felidae: QL737.C23
- Female generative organs
  - Human anatomy: QM421
  - Microbiology: QR171.F45
- Female organs, Accessory: QP265
- Female reproductive organs
  - Anatomy: QL881
- Female sex physiology: QP259+
- Femtochemistry: QD716.L37
- Fenite: QE462.F4
- Ferberite
  - Mineralogy: QE391.F4
- Fermat's theorem: QA244
- Fermentation
  - Phytochemistry: QK896
- Fermi liquid theory (Statistical physics): QC174.85.F47
- Fermi surface
  - Solid state physics: QC176.8.F4
- Fermions
  - Elementary particle physics: QC793.5.F42+
- Fermium
  - Chemical element: Q1 .F5
- Fermo meteorite: QB756.F47
- Ferns
  - Botany: QK520+
  - Paleobotany: QE961
- Ferredoxin-NADP reductase
  - Animal biochemistry: QP603.F47
- Ferrierite
  - Mineralogy: QE391.F45
- Ferrimagnetism: QC761.4
- Ferrites
  - Analytical chemistry: QD137.F35
  - Magnetism: QC766.F3
- Ferritin
  - Animal biochemistry: QP552.F47
- Ferroboron
  - Analytical chemistry: QD137.F38
- Ferrochromium
  - Analytical chemistry: QD137.F4
- Ferroelectric crystals
  - Spectra: QC464.F45
- Ferroelectricity
  - Physics: QC596+
- Ferromagnetism
  - Physics: QC761.5
- Ferroniobium
  - Analytical chemistry: QD137.F44
- Ferrotungsten
  - Analytical chemistry: QD137.F48
- Ferrum
  - Chemical element: Q1 .F4
- Fertilization
  - Physiology: QP273
  - Plant physiology: QK828
  - Sexual reproduction: QH485
- Fertilizers
  - Effect on plants and animals: QH545.F47
- Fetal development, Animal: QL971+
- Few-body problem
  - Theoretical astronomy: QB362.F47
- Feylinidae: QL666.L243
- Feynman diagrams
  - Nuclear interactions: QC794.6.F4
- Feynman integrals: QC174.17.F45
- Fiber
  - Nutrition: QP144.F52
- Fiber bundles
  - Topology: QA612.6+
- Fiber optics: QC447.9+
- Fiber spaces
  - Topology: QA612.6+
- Fiberings
  - Topology: QA612.6+
- Fibers, Nerve
  - Anatomy: QL931
- Fibrin: QP93.5+
- Fibrinogen: QP93.5+
- Fibrinogen polymorphisms
  - Genetics: QH447.63.F43
- Fibroblast growth factors
  - Animal biochemistry: QP552.F5
- Fibromodulin
  - Animal biochemistry: QP552.F52
- Fibronectins
  - Animal biochemistry: QP552.F53
- Ficidae
  - Zoology: QL430.5.F53
- Fideliidae: QL568.F47
- Field emission
  - Electricity: QC700
- Field glasses
  - Optical instruments: QC373.B55
- Field ion microscopes: QH212.F5
- Field theories
  - Atomic physics: QC173.68+
  - Elementary particle physics: QC793.3.F5

## INDEX

- Fields
  - Zoology: QL115.5
- Fieldwork
  - Biology: QH318.5
- Fierasferidae: QL638.C26
- Fifth generation computers: QA76.85
- Fig wasps: QL568.A23
- Figitidae: QL568.F5
- Figure of the earth
  - Astronomy: QB283
- Figures of equilibrium of rotating masses of fluid
  - Celestial mechanics: QB410
- Figures of planets: QB603.F5
- Figwort
  - Botany: QK495.S43
- File conversion
  - Computer science: QA76.9.F48
- File organization
  - Computer science: QA76.9.F5
- File processing
  - Computer science: QA76.9.F53
- File snakes: QL666.O62
- Filefishes: QL638.B15
- Filistatidae: QL458.42.F5
- Film boiling
  - Heat transfer: QC320.22.F5
- Films in science teaching: Q192
- Filtration
  - Chemistry: QD63.F5
- Finches
  - Zoology: QL696.P246
- Finding the time
  - Astronomy: QB213
- Finite element method
  - Heat transfer: QC320.22.F56
  - Mathematical physics: QC20.7.F56
  - Quantum mechanics: QC174.17.F54
- Finite fields
  - Algebra: QA247.3+
- Finite geometries: QA167.2
- Finite groups
  - Algebra: QA177
- Fire
  - Effect on animals and plants: QH545.F5
- Fire ecology: QH545.F5
- Fireballs: QB753
- Fireflies
  - Anecdotes and stories: QL795.F65
  - Zoology: QL596.L28
- Firm-ware
  - Computer software: QA76.765
- Fish
  - Nutrition: QP144.F56
  - Physiology: QP144.F78
- Fish culture
  - Effect on plants and animals: QH545.F52
- Fish eggs
  - Zoology: QL639.25
- Fish lice: QL444.B9
- Fish mounting: QL618.6
- Fish oils
  - Animal biochemistry: QP752.F57
- Fish population dynamics: QL618.3
- Fish surveys
  - Zoology: QL618.65
- Fish watching: QL618.55
- Fisheries
  - Effect on plants and animals: QH545.F53
- Fisherman bats: QL737.C56
- Fishes
  - Anecdotes and stories: QL795.F7
  - Laboratory manuals: QL813.F57
  - Microbiology: QR118
  - Paleozoology: QE851+
  - Zoology: QL614+
- Fissidentaceae: QK539.F5
- Fission
  - Asexual reproduction: QH477
- Fission products
  - Nuclear fission: QC790.4.F5
  - Radioactive substances: QC795.8.F5
- Fissurellidae: QL430.5.F57
- Fistulariidae: QL638.F5
- Fixation
  - Human histology: QM556.5.F5
  - Microscopy: QH235
- Fixed point theorems
  - Topology: QA611.7
- Fixed points and coincidences
  - Topology: QA612.24
- Fjords
  - Ecology: QH541.5.F56
- Flabellinidae: QL430.5.F58
- Flacourtiaceae: QK495.F55
- Flagella
  - Microbiology: QR78
- Flagellariaceae: QK495.F58
- Flagellata: QL368.A12
  - Paleozoology: QE774.F5
- Flame
  - Thermochemistry: QD516
- Flame spectroscopy
  - Analytical chemistry: QD96.F5
  - Physics: QC454.F6
- Flamingos: QL696.C56
- Flannel moths: QL561.M4
- Flare stars: QB843.F55
- Flares, Solar: QB526.F6
- Flash
  - Lightning: QC966.7.D5
- Flash photolysis
  - Animal biochemistry: QP519.9.F52
  - Photochemistry: QD716.F54

## INDEX

- Flat-bark beetles: QL596.C8
- Flatbugs: QL523.A7
- Flatheads
  - Zoology: QL638.P464
- Flatidae: QL527.F4
- Flatland
  - Geometry: QA699
- Flatworms: QL391.P7
- Flavins
  - Animal biochemistry: QP671.F5
- Flavonoids
  - Animal biochemistry: QP671.F52
  - Plant constituent: QK898.F5
- Flavonols
  - Plant constituent: QK898.F53
- Flavoproteins
  - Animal biochemistry: QP552.F54
- Flavor components
  - Animal biochemistry: QP801.F45
- Flax
  - Botany: QK495.L74
- Fleas
  - Paleozoology: QE832.S47
  - Zoology: QL599.5+
- Fleshflies: QL537.S25
- Flies
  - Paleozoology: QE832.D6
  - Zoology: QL531+
- Flight
  - Birds: QL698.7
  - Dinosaurs: QE861.6.F45
  - Insects: QL496.7
  - Physiology: QP310.F5
- Flightless birds
  - Zoology: QL677.79.F55
- Flint
  - Petrology: QE471.15.F47
- Flippers
  - Animal anatomy: QL950.75
- Floating bodies
  - Fluid mechanics: QC145.5+
  - Hydrostatics: QA907
- Flocculation
  - Physical chemistry: QD547
- Flocculi, Solar: QB526.F64
- Flood control
  - Effect on plants and animals: QH545.F55
- Flood dams
  - Effect on plants and animals: QH545.D35
- Floodplains
  - Ecology: QH541.5.V3
  - Zoology: QL113.77
- Flora, Amber
  - Paleobotany: QE932
- Floral ecology
  - Illustrations: QK909
- Florideae: QK569.F64
- Flotation
  - Organic chemistry: QD281.F5
- Flow cytometry
  - Cytology: QH585.5.F56
  - Microbiology: QR69.F56
- Flow injection analysis
  - Animal biochemistry: QP519.9.F55
- Flower
  - Spermatophytes: QK653+
- Flowerbugs: QL523.A5
- Flowerflies: QL537.S9
- Flowering
  - Sexual reproduction of plants: QK830
- Flowering rush
  - Botany: QK495.B83
- Flowerpeckers: QL696.P242
- Flowmeters
  - Fluid mechanics: QC148.4
- Flows
  - Topology: QA614.82
- Flows in continuous media: QC155.7
- Flows in porous media: QC155
- Flows in viscous media: QC155.5
- Fluctuations
  - Physics: QC6.4.F58
  - Superconductors: QC611.97.F58
- Fluid calorimeters: QC293.F5
- Fluid dynamics
  - Analytic mechanics: QA911+
  - Astrophysics: QB466.F58
  - Biology: QH513.5
  - Geophysics: QC809.F5
- Fluid inclusions
  - Mineralogy: QE364.2.F47
- Fluid mechanics
  - Analytic mechanics: QA901+
  - Physics: QC138+
- Fluids
  - Physics: QC138+
- Fluorescein
  - Effect on plants: QK753.F5
- Fluorescence
  - Radiation physics: QC477+
- Fluorescence microscopes: QH212.F55
- Fluorescence, Sensitized: QC477.4
- Fluorescence spectroscopy
  - Analytical biochemistry: QP519.9.F56
  - Analytical chemistry: QD96.F56
  - Biological research: QH324.9.F4
- Fluorescent antigen technique
  - Antigen-antibody reactions: QR187.F58
- Fluorescent minerals
  - Mineralogy: QE364.2.F5
- Fluorescent polymers
  - Organic chemistry: QD382.F55
- Fluorescent probes
  - Analytical biochemistry: QP519.9.F56

## INDEX

- Fluorides
  - Effect on plants: QK753.F53
  - Mineralogy: QE389.4
- Fluorimeters: QC477.2
- Fluorimetry
  - Analytical chemistry: QD79.F4
  - Animal biochemistry: QP519.9.F58
  - Quantitative analysis: QD117.F5
- Fluorination
  - Organic chemistry: QD281.F55
- Fluorine
  - Chemical element: Q1 .F1
  - Fluid mechanics: QC145.45.F5
- Fluorine organic compounds
  - Animal biochemistry: QP801.F5
- Fluorocarbohydrates
  - Animal biochemistry: QP702.F58
- Fluorocarbons
  - Spectra: QC463.F55
- Fluoropolymers
  - Organic chemistry: QD383.F48
- Fluorspar
  - Mineralogy: QE391.F6
- Flying fishes
  - Zoology: QL638.E9
- Flying gurnards: QL638.D3
- Flying lemurs: QL737.D4
- Flysch: QE471.15.F5
- Foamy viruses: QR414.6.F6
- FOCUS (Computer program language): QA76.73.F23
- Fog
  - Meteorology: QC929.F7
- Föhn
  - Meteorology: QC939.F6
- Folacin
  - Animal biochemistry: QP772.F6
- Folds (Geology): QE606+
- Foliations
  - Differential topology: QA613.62
- Folic acid
  - Animal biochemistry: QP772.F6
- Follicle-stimulating hormone
  - Animal biochemistry: QP572.F6
- Fontinalaceae: QK539.F6
- Food
  - Animals: QL756.5+
  - Birds: QL698.4
  - Microbiology: QR115+
- Food chains
  - Ecology: QH541.15.F66
- Food microbiology: QR115+
- Food poisoning
  - Microbiology: QR201.F6
- Food webs
  - Ecology: QH541.15.F66
- Foodborne diseases
  - Microbiology: QR201.F62
- Foot
  - Regional anatomy: QM549
- Foot-and-mouth disease
  - Microbiology: QR201.F63
- Foot muscles
  - Physiology: QP336
- Footballfishes: QL638.H54
- Footprints, Fossil: QE845
- Foraminifera
  - Paleozoology: QE772
- Foraminiferida: QL368.F6
- Forbush decreases
  - Cosmic ray physics: QC485.8.F6
- Force and energy (Physics): QC71.82+
- Forces and couples in three dimensions
  - Statics: QA831
- Forensic biology: QH313.5.F67
- Forensic botany: QK46.5.F67
- Forensic geology: QE38.5
- Forest birds
  - Zoology: QL677.79.F67
- Forest canopy ecology: QH541.5.F6
- Forest ecology: QH541.5.F6
- Forest influences
  - Meteorology: QC929.F8
- Forest management
  - Effect on plants and animals: QH545.F67
- Forests
  - Biogeography: QH86
  - Botany: QK938.F6
  - Ecology: QH541.5.F6
  - Zoology: QL112
- Forficulidae: QL510.3.F6
- Form factor
  - Nuclear interactions: QC794.6.F65
- Form in visual space perception
  - Neurophysiology: QP492
- Formal groups
  - Algebra: QA177.4
- Formal languages
  - Algebra: QA267.3
- Formal methods
  - Computer science: QA76.9.F67
- Formaldehyde
  - Animal biochemistry: QP801.F67
  - Spectra: QC463.F6
- Formation, Heat of
  - Physics: QC310
- Formicariidae: QL696.P2455
- Formicidae: QL568.F7
- Formionidae: QL638.F6
- Forms
  - Number theory
    - Algebra: QA243
- FORTTRAN (Computer program language): QA76.73.F25
- Forums (Discussion and debate)
  - Mathematics teaching aid: QA20.F67

## INDEX

- Fossil biomolecules
  - Animal biochemistry: QP517.F66
- Fossil eggs: QE875
- Fossil footprints: QE845
- Fossil fruit and seeds: QE996.5
- Fossil leaves: QE992
- Fossil otoliths: QE853
- Fossil pollen: QE993.2
- Fossil spores: QE996
- Fossil teeth: QE846
- Fossil trees: QE991
- Fossil woods: QE991
- Fossilization: QE721.2.F6
- Fossils, Living
  - Zoology: QL88.5
- Fossils, Trace: QE720.5
- Fossombroniaceae: QK555.F6
- Foundations
  - Mathematical analysis: QA299.8+
- Foundations (Endowments)
  - Science research: Q180.55.G7
- Foundations of geometry: QA681
- Fouquieriaceae: QK495.F6
- Four-color problem
  - Topology: QA612.19
- Four-o'clock
  - Botany: QK495.N9
- Fourier analysis: QA403.5+
- Fourier series: QA404
- Fourier transform infrared spectroscopy
  - Analytical chemistry: QD96.I5
- Fourier transform nuclear magnetic resonance spectroscopy: QD96.N8
- Fourier transform spectroscopy
  - Analytical chemistry: QD96.F68
  - Physics: QC454.F7
- Fourier transformations
  - Mathematical physics: QC20.7.F67
- Fourth dimension
  - Geometry: QA699
- Fourth generation computers: QA76.84
- Foxes
  - Anecdotes and stories: QL795.F8
- Fractal analysis
  - Topology: QA614.86
- Fractals
  - Condensed matter physics: QC173.458.F72
  - Geology: QE33.2.F73
  - Mathematical physics: QC20.7.F73
  - Physical chemistry: QD455.3.F73
  - Topology: QA614.86
- Fractional calculus
  - Mathematical analysis: QA314
- Fractional distillation
  - Thermochemistry: QD526
- Fractionation
  - Polymers: QD381.9.S44
- Fractions
  - Arithmetic: QA117
- Fragilariaceae: QK569.F73
- Fragmentation reactions
  - Organic chemistry: QD281.F7
- Fragmented landscapes
  - Ecology: QH541.15.F73
- Frames
  - Information theory: Q390
- Frameworks, Software: QA76.76.S63
- Francium
  - Chemical element: Q1 .F7
- Frankeniaceae: QK495.F67
- Frankiaceae: QR82.F7
- Franklinothripidae: QL598.3.F7
- Fraud
  - Science: Q175.37
- FRED (Computer program language): QA76.73.F74
- Free computer software: QA76.76.F75
- Free convection
  - Physics: QC330
- Free electron lasers: QC689.55.F75
- Free electron theory of metals
  - Solid state physics: QC176.8.F74
- Free radicals
  - Aliphatic compounds: QD305.C3
- Free-tailed bats: QL737.C54
- FreeBSD
  - Operating systems: QA76.774.F74
- Freedom, Degree of
  - Elementary particle physics: QC793.3.D43
- Freedom, Intellectual
  - Philosophy of science: Q175.32.I58
- Freeze-drying
  - Biological research: QH324.9.C7
  - Microbiology: QR69.F7
- Freeze etching
  - Microscopy: QH236
- Freeze fracturing
  - Microscopy: QH236.2
- Freezing
  - Solution chemistry: QD549.2.F74
- Freezing points
  - Physical chemistry: QD545
- Fregatidae: QL696.P45
- Frequency spectra
  - Physics: QC454.F85
- Fresh water
  - Zoology: QL141+
- Freshwater aquariums: QL78
- Freshwater biological laboratories: QH96.6+
- Freshwater biology: QH96+
- Freshwater biology as a profession: QH96.45
- Freshwater catfishes: QL638.I3
- Freshwater ecology: QH541.5.F7
- Freshwater eels: QL638.A55



## INDEX

- Freshwater flora
  - Botany: QK105
- Freshwater fungi: QK618.2
- Freshwater microbiology: QR105.5
- Freshwater mollusks: QL407.5
- Freshwater organisms, Introduced
  - Freshwater biology: QH96.8.I57
- Freshwater phytoplankton
  - Plant ecology: QK935
- Freshwater plants: QK932+
- Freshwater radioecology: QH543.9
- Freshwater stingrays: QL638.85.P6
- Freshwater zooplankton: QL143
- Fricke dosimeters
  - Nuclear physics: QC787.F75
- Friction
  - Particle dynamics: QA852
- Friction in matter and antimatter: QC197
- Frictional electricity
  - Physics: QC570+
- Frictional machines: QC573
- Frigate birds: QL696.P45
- Frigorimeters: QC981.6
- Friilled sharks: QL638.95.C4
- Fringillidae: QL696.P246
- Frogfishes: QL638.A577
- Frogmouths: QL696.C26
- Frogs
  - Anecdotes and stories: QL795.F85
  - Laboratory manuals: QL813.F75
  - Zoology: QL668.E2+
- Frontal lobe
  - Neurophysiology: QP382.F7
- Frontogenesis
  - Meteorology: QC880.4.F7
- Fronts
  - Meteorology: QC880.4.F7
- Frost
  - Effect on plants: QK756
- Fructans
  - Animal biochemistry: QP702.F68
- Fructofuranosidase
  - Animal biochemistry: QP609.F7
- Fructokinase
  - Animal biochemistry: QP606.F7
- Fructose
  - Animal biochemistry: QP702.F7
- Fructose-2,6-bisphosphate
  - Animal biochemistry: QP702.F73
- Fruit
  - Microbiology: QR122
  - Spermatophytic reproductive organ: QK660+
- Fruit, Fossil: QE996.5
- Fruit juice
  - Microbiology: QR129.F7
- Fruitworm beetles: QL596.B98
- Frullaniaceae: QK555.F9
- Fruticeta: QK479+
- Fucaceae: QK569.F95
- Fuchsian functions
  - Analysis: QA353.A9
- Fuchsian groups: QA335
- Fuel calorimeters: QC293.F8
- Fulgoridae: QL527.F9
- Fullerene polymers
  - Organic chemistry: QD383.F84
- Fulmars: QL696.P665
- Fume hoods
  - Chemical laboratories: QD54.F85
- Funariaceae: QK539.F98
- Function spaces
  - Functional analysis: QA323
- Functional analysis: QA319+
  - Atomic physics: QC174.52.F8
  - Mathematical physics: QC20.7.F84
- Functional equations
  - Analysis: QA431
- Functional foods
  - Nutrition: QP144.F85
- Functional integration
  - Mathematical physics: QC20.7.F85
- Functional programming
  - Digital computers: QA76.62
- Functional programming languages
  - Digital computers: QA76.62
- Functionality, Window
  - Computer software: QA76.76.W56
- Functionals
  - Quantum mechanics: QC174.17.F86
- Functions, Special
  - Mathematical physics: QC20.7.F87
- Functions, Theory of
  - Analysis: QA331+
- Functions, Zeta
  - Mathematical physics: QC20.7.Z47
- Functors
  - Homological algebra: QA169
- Fundulidae: QL638.F86
- Fungal antigens
  - Immunology: QR186.6.F85
- Fungal communities: QK604.2.C64
- Fungal viruses
  - Microbiology: QR343
- Fungi
  - Botany: QK600+
  - Paleobotany: QE958
- Fungi imperfecti: QK625.A1+
- Fungivoridae: QL537.M92
- Fungus gnats: QL537.S357
- Fungus weevils: QL596.A63
- Funnel-eared bats: QL737.C555
- Fur
  - Anatomy: QL942
  - Physiology: QP88.3

## INDEX

- Furans
    - Microbial metabolism: QR92.F87
    - Spectra: QC463.F8
  - Furipteridae: QL737.C53
  - Furnariidae: QL696.P2464
  - Furylbenzimidazole
    - Animal biochemistry: QP801.F87
  - Fused salts
    - Spectra: QC464.F87
  - Fusion
    - Physics: QC303
  - Fuzzy automata
    - Algebra: QA267.5.F89
  - Fuzzy decision making
    - Mathematical statistics: QA279.6
  - Fuzzy graphs
    - Algebra: QA166.175
  - Fuzzy logic
    - Mathematics: QA9.64
  - Fuzzy measure theory
    - Integral calculus: QA312.5
  - Fuzzy sets
    - Algebra: QA248.5
  - Fuzzy statistics
    - Mathematical statistics: QA276.5
  - Fuzzy topology: QA611.2
- G
- G proteins
    - Animal biochemistry: QP552.G16
  - GABA
    - Animal biochemistry: QP563.G32
  - Gabbro: QE462.G3
  - Gadidae: QL638.G2
  - Gadiformes: QL637.9.G3
    - Paleozoology: QE852.G26
  - Gadiniidae: QL430.5.G34
  - Gadolinium
    - Chemical element: Q1 .G4
  - Gadopsidae: QL638.G23
  - Galactic bulges: QB857.5.B84
  - Galactic center of the Milky Way: QB857.72
  - Galactic clusters: QB858.7+
  - Galactic cosmic rays: QC485.9.G34
  - Galactic nuclei, Active: QB858.3+
  - Galactose
    - Animal biochemistry: QP702.G3
    - Effect on plants: QK753.G45
    - Microbial metabolism: QR92.G35
  - Galactosidase
    - Animal biochemistry: QP609.G3
  - Galactosides
    - Organic chemistry: QD325
  - Galagonidae: QL737.P937
  - Galagos: QL737.P937
  - Galanin
    - Animal biochemistry: QP552.G25
  - Galaxies: QB856+
  - Galaxiidae: QL638.G25
  - Galaxy collisions: QB857.5.M47
  - Galaxy mergers: QB857.5.M47
  - Galbulidae: QL696.P54
  - Galena
    - Mineralogy: QE391.G3
  - Galeodidae: QL458.82.G3
  - Galerucidae: QL596.G3
  - Galileo
    - Biography as an astronomer: QB36.G2
  - Gall midges: QL537.C33
  - Gall wasps: QL568.C9
  - Gallbladder
    - Human anatomy: QM352
    - Physiology: QP185
  - Galleriidae: QL561.G3
  - Galli
    - Paleozoology: QE872.G15
  - Galliformes: QL696.G2+
    - Paleozoology: QE872.G15
  - Gallium
    - Chemical element: Q1 .G2
  - Gallium arsenide
    - Semiconductor physics: QC611.8.G3
  - Galloping
    - Physiology: QP310.G34
  - Galumnidae: QL458.2.G34
  - Galvanic skin response
    - Neurophysiology: QP372.9
  - Galvanometer: QC544.G2
  - Galvanometric effects
    - Semiconductor physics: QC611.6.G3
  - Game theory
    - Algebra: QA269+
  - Games
    - Mathematics teaching aid: QA20.G35
    - Elementary geometry: QA462.2.G34
  - Games of chance
    - Algebra: QA271
  - Games of strategy
    - Algebra: QA270
  - Gamma-aminobutyric acid
    - Animal biochemistry: QP563.G32
  - Gamma functions
    - Analysis: QA353.G3
  - Gamma globulins
    - Animal biochemistry: QP552.G3
  - Gamma ray astronomy: QB471.A1+
  - Gamma ray detectors
    - Nuclear physics: QC787.G32
  - Gamma rays
    - Elementary particle physics: QC793.5.G32+
  - Gamma waves
    - Physiological effect: QP82.2.G35

## INDEX

- Gangliosides
  - Animal biochemistry: QP752.G3
- Gannets
  - Zoology: QL696.P48
- Ganodermataceae: QK629.G18
- Ganoid fishes: QL638.5
- Ganoidei
  - Paleozoology: QE852.S4
- Garbage collection
  - Computer science: QA76.9.G37
- Garden ecology: QH541.5.G37
- Gardening to attract birds: QL676.5+
- Gardens
  - Ecology: QH541.5.G37
  - Zoology: QL119
- Garlic: QK495.A42
- Garnet
  - Mineralogy: QE391.G37
- Garryaceae: QK495.G26
- Gars: QL638.L4
- Garypidae: QL458.62.G3
- Gas analysis
  - Analytical chemistry: QD121
- Gas calorimeters: QC293.G3
  - Nuclear physics: QC787.G34
- Gas chromatography
  - Analytical chemistry: QD79.C45
  - Animal biochemistry: QP519.9.G37
  - Microbiology: QR69.G27
  - Organic chemistry: QD272.C44
  - Quantitative analysis: QD117.C515
- Gas dynamics
  - Astrophysics: QB466.G38
  - Fluid dynamics: QA930
  - Fluid mechanics: QC167.5+
- Gas migration
  - Gas dynamics: QC168.85.M53
- Gas pipelines
  - Effect on plants and animals: QH545.G37
- Gas-solid interfaces
  - Surface chemistry: QD509.G37
- Gas spectra
  - Physics: QC454.G3
- Gas thermometers: QC273
- Gaseous dielectrics: QC585.8.G38
- Gaseous nebulae: QB855.55
- Gases
  - Blood constituents: QP99.3.G3
  - Effect on plants: QK753.G47
  - Fluid mechanics: QC161+
  - Inorganic chemistry: QD162
  - Liquefaction: QD535
  - Thermochemistry: QD531
- Gases at high temperatures: QC164.5
- Gases from plants
  - Phytochemistry: QK876
- Gases in plants
  - Phytochemistry: QK875
- Gases in tubes
  - Sound vibrations: QC235
- Gasteromycetes: QK626+
- Gasteropelecidae: QL638.G266
- Gasterophilidae: QL537.G3
- Gasterosteidae: QL638.G27
- Gasterosteiformes: QL637.9.G37
  - Paleozoology: QE852.G37
- Gasteruptionidae: QL568.G3
- Gastornithiformes
  - Paleozoology: QE872.G27
- Gastric intrinsic factor
  - Animal biochemistry: QP552.G35
- Gastric juice
  - Physiology: QP193
- Gastrin
  - Animal biochemistry: QP572.G3
- Gastrochaenidae: QL430.7.G23
- Gastrointestinal hormones
  - Animal biochemistry: QP572.G35
- Gastrointestinal motility
  - Physiology: QP180
- Gastrointestinal system
  - Immunology: QR185.9.G37
  - Microbiology: QR171.G29
- Gastropoda: QL430.4+
  - Paleozoology: QE808+
- Gastrotricha: QL391.G2
- Gauge fields
  - Elementary particle physics: QC793.3.G38
- Gauge theories
  - Elementary particle physics: QC793.3.G38
- Gaussian processes
  - Stochastic processes: QA274.4
- Gaussian quadrature formulas
  - Mathematical analysis: QA299.4.G3
- Gaussian sums: QA246.8.G38
- Gavial
  - Zoology: QL666.C925
- Gaviidae: QL696.G33
  - Paleozoology: QE872.C75
- Gaviiformes: QL696.G3+
- Gazelles
  - Anecdotes and stories: QL795.G3
- Geastraceae: QK629.G4
- Geckos: QL666.L245
- Geddes comet: QB723.G43
- Geese
  - Zoology: QL696.A52
- Gegenschein: QB761
- Geiger-Müller counters
  - Nuclear physics: QC787.G4
- Geissolomataceae: QK495.G27
- Gekkonidae: QL666.L245

## INDEX

- Gel electrophoresis
  - Animal biochemistry: QP519.9.G42
- Gel permeation chromatography
  - Animal biochemistry: QP519.9.G44
  - Organic chemistry: QD272.C444
- Gelatin
  - Animal biochemistry: QP552.G4
- Gelechiidae: QL561.G4
- Gelidiaceae: QK569.G4
- Gelidiales: QK569.G42
- Gels
  - Physical chemistry: QD549+
- Gempylidae: QL638.G4
- Gender mainstreaming
  - Nature conservation: QH77.3.G46
- Gene amplification: QH450.3
- Gene expression
  - Cardiovascular system: QP110.G45
  - Recombination: QH450+
- Gene fusion
  - Chromosomal mutation: QH462.G46
- Gene libraries
  - Genetics: QH442.4
- Gene mutation: QH463
- Gene targeting: QH442.3
- Generalized spaces
  - Geometry: QA689
- Generating functions
  - Algebra: QA164.8
  - Theory of functions: QA353.G44
- Generations, Alternation of
  - Plant anatomy: QK663
  - Reproduction: QH489
- Generative organs
  - Human embryology: QM695.G45
  - Human histology: QM577+
  - Microbiology: QR171.G4
- Generative organs, Female
  - Human anatomy: QM421
  - Human histology: QM577.8
  - Microbiology: QR171.F45
- Generative organs, Male
  - Human anatomy: QM416
  - Human histology: QM577.4
- Generative programming
  - Digital computers: QA76.624
- Generators
  - Computer software: QA76.76.G46
- Generic programming
  - Digital computers: QA76.6245
- Genes
  - Recombination genetics: QH447+
- Genetic code
  - Biology: QH450.2
- Genetic engineering
  - Biology: QH442+
  - Plant ecology: QK981.5
- Genetic mapping
  - Biology: QH445.2+
- Genetic markers: QH438.4.B55
- Genetic mutation: QH461
- Genetic polymorphisms: QH447.6+
- Genetic programming
  - Digital computers: QA76.623
- Genetic regulation
  - Recombination: QH450+
- Genetic repair mechanisms: QH467
- Genetic sex determination
  - Physiology: QP278.5
- Genetic translation
  - Biology: QH450.5
- Genetics
  - Birds: QL696.5
  - Fishes: QL638.99
  - Fungi: QK602
  - Insects: QL493
  - Invertebrates: QL362.9
  - Mammals: QL738.5
  - Nutrition: QP144.G45
  - Plants: QK981+
  - Reptiles and amphibians: QL668.5
- Genetics, Endocrine: QP187.5
- GENie (Videotex system): QA76.57.G45
- Genome
  - Recombination genetics: QH447+
- Genome mapping
  - Plants: QK981.45
- Genomics, Chemical: QH438.4.C45
- Gentian
  - Botany: QK495.G35
- Gentianaceae: QK495.G35
- Geobiology: QH343.4
- Geocalycaceae: QK555.G44
- Geochemical modeling: QE515.5.G43
- Geochemical self-organization: QE515.5.G45
- Geochemistry
  - Geology: QE514+
- Geochemistry, Environmental: QE516.4
- Geochemistry, Organic: QE516.5
- Geodes: QE471.15.G4
- Geodesy: QB275+
- Geodesy as a profession: QB281.5
- Geodetic astronomy: QB201+
- Geodetic surveying instruments: QB328.A1+
- Geodimeter: QB328.G4
- Geographic information systems
  - Climatology: QC866.5.G46
  - Ecology: QH541.15.G46
  - Marine biology: QH91.57.G46
  - Planets: QB600.33
- Geography, Astronomical: QB630+
- Geological cosmogony: QE506
- Geological map interpretation: QE36
- Geological map making: QE36

## INDEX

- Geological processes
  - Microbial effect: QR103
- Geological structure
  - Geomagnetism: QC841
- Geological surveys: QE61
- Geological time: QE508
- Geology: QE1+
  - Mars (Planet): QB643.G46
  - Mercury (Planet): QB613.G46
  - Venus (Planet): QB623.G46
- Geology as a profession: QE34
- Geology, Dynamic: QE517+
- Geology expeditions: QE4
- Geology, Isotope: QE501.4.N9
- Geology, Nuclear: QE501.4.N9
- Geology, Structural: QE500+, QE601+
- Geomagnetic field: QC827+
- Geomagnetic micropulsations
  - Geophysics: QC809.M25
- Geomagnetism
  - Physics: QC811+
- Geometric group theory
  - Algebra: QA183
- Geometric inequalities: QA640
- Geometric principles of analysis: QA360
- Geometric probability: QA273.5
- Geometric quantization (Quantum mechanics):
  - QC174.17.G46
- Geometrical crystallography
  - Chemistry: QD911+
- Geometrical drawing: QA464
- Geometrical instruments
  - Mathematics: QA77+
- Geometrical models
  - Mathematical statistics: QA276.23
- Geometrical optics: QC380+
- Geometrical wave mechanics: QC174.24.G4
- Geometridae: QL561.G6
- Geometroynamics: QC173.59.G44
- Geometry: QA440+
  - Mathematical physics: QC20.7.G44
- Geometry, Algebraic
  - Elementary particle physics: QC793.3.G46
- Geometry and trigonometry (combined): QA529
- Geometry of masses: QA839
- Geometry of numbers: QA241.5
- Geomicrobiology: QR103
- Geomyidae: QL737.R654
- Geophilellidae: QL449.85.G4
- Geophilidae: QL449.55.G4
- Geophysics: QC801+
- Georyssidae: QL596.G47
- Geosciences, High pressure
  - Geology: QE33.2.H54
- Geosiridaceae: QK495.G37
- Geosynclines: QE607+
- Geothermal power plants
  - Effect on plants and animals: QH545.G46
- Geotriidae: QL638.25.G45
- Geotropism
  - Plant physiology: QK776
- Geotrupidae: QL596.G48
- Geraniaceae: QK495.G38
- Geranium
  - Botany: QK495.G38
- Gerbils: QL737.R666
- Germ cells
  - Embryology: QL964+
- Germanium
  - Chemical element: Q1 .G5
  - Semiconductor physics: QC611.8.G4
- Germanium organic compounds
  - Animal biochemistry: QP801.G47
- Germfree life
  - Biological research: QH324.4
- Germinal centers
  - Immune structures: QR185.8.G4
- Germination
  - Plant physiology: QK740
- Germplasm
  - Microbiology: QR171.G47
- Germplasm resources
  - Plants: QK981.7
- Gerridae: QL523.G4, QL638.G43
- Gervaisiidae: QL449.65.G4
- Gesneriaceae: QK495.G4
- Gestation
  - Physiology: QP281
- Gesture
  - Mathematics teaching: QA20.G47
- Geysers
  - Geology: QE528
- Ghrelin
  - Animal biochemistry: QP572.G45
- Giant chromosomes
  - Cytology: QH600.6
- Giant lacewings: QL513.P6
- Giant nuclear magnetic resonance
  - Physics: QC762.6.G53
- Giant panda: QL737.C27
- Giant salamanders: QL668.C24
- Giant silkworm moths: QL561.S2
- Giant waterbugs: QL523.B4
- Giardiasis
  - Microbiology: QR201.G45
- Gibberellic acid
  - Effect on plants: QK753.G5
- Gibberellins
  - Effect on plants: QK753.G5
  - Plant constituent: QK898.G45
- Gibberichthyidae: QL638.G45
- Gibbons: QL737.P943
  - Anecdotes and stories: QL795.G5

## INDEX

- Gibbs paradox (Quantum mechanics): QC174.17.G5
- Gigantactinidae: QL638.G455
- Giganturidae: QL638.G5
- Gigartinaceae: QK569.G5
- Gila monsters
  - Zoology: QL666.L247
- Gills
  - Anatomy: QL846
- Ginger
  - Botany: QK495.Z65
- Ginglymostomatidae: QL638.95.G55
- Ginkgoaceae: QK494.5.G48
- Ginkgoales
  - Paleobotany: QE977.3
- Ginseng
  - Botany: QK495.A6853
- Giraffe
  - Anecdotes and stories: QL795.G55
- Giraffidae: QL737.U56
- Girdle-tailed lizards: QL666.L234
- GIS (Geographic information systems)
  - Marine biology: QH91.57.G46
- Glacial cosmogony: QB980+
- Glacial epoch: QE697+
- Glacial erosion
  - Geology: QE575+
- Glacial isostasy: QE511
- Glaciers
  - Microbiology: QR131.G58
- Glaciers and climate
  - Meteorology: QC981.8.I23
- Glanders
  - Microbiology: QR201.G5
- Glands
  - Anatomy: QL865+
  - Human anatomy: QM368+
  - Physiology: QP186+
- Glands, Salivary
  - Human anatomy: QM325
- Glaphyridae: QL596.G5
- Glareolidae: QL696.C448
- Glass
  - Analytical chemistry: QD139.G5
  - Atomic physics: QC173.4.G53
  - Electrochemistry: QD575.G53
  - Spectra: QC464.G55
- Glass blowing and working
  - Chemical laboratories: QD63.G5
- Glass electrodes: QD572.G53
- Glass frogs: QL668.E23
- Glass in optical instruments: QC375
- Glass knife-fishes: QL638.S83
- Glass lizards: QL666.L2254
- Glaucinite
  - Mineralogy: QE391.G5
- Glucosomitidae: QL638.G55
- Glaze
  - Meteorology: QC929.G4
- Gleason measures (Quantum mechanics): QC174.17.G56
- Glial fibrillary acidic protein
  - Animal biochemistry: QP552.G45
- Gliridae: QL737.R656
- Global analysis
  - Mathematical physics: QC20.7.G55
  - Quantum mechanics: QC174.17.G57
  - Topology: QA614+
- Global differential geometry: QA670+
- Global radiation
  - Meteorology: QC912.55
- Global Riemannian geometry: QA671
- Global temperature changes: QC902.8+
- Global warming
  - Meteorology: QC981.8.G56
- Globes, Astronomical: QB66
- Globin
  - Animal biochemistry: QP552.G5
- Globular clusters: QB853.5
- Globulariaceae: QK495.G56
- Globulins
  - Animal biochemistry: QP552.G55
- Glomeridae: QL449.65.G5
- Glomeridesmidae: QL449.65.G53
- Glossidae: QL430.7.G55
- Glossinidae: QL537.G4
- Glow discharge
  - Electric discharge through gases: QC711.8.G5
- Glowworms: QL596.P47
- Glucagon
  - Animal biochemistry: QP572.G5
- Glucagon-like peptide 1
  - Animal biochemistry: QP572.G52
- Glucan phosphorylase
  - Animal biochemistry: QP606.G5
- Glucans
  - Animal biochemistry: QP702.G48
- Glucaric acid
  - Animal biochemistry: QP801.G56
- Glucides
  - Animal biochemistry: QP702.G5
- Glucinum
  - Chemical element: Q1 .B4
- Glucocorticoids
  - Animal biochemistry: QP572.G54
- Glucokinase
  - Animal biochemistry: QP606.G57
- Glucosamine
  - Animal biochemistry: QP702.G55
- Glucose
  - Animal biochemistry: QP702.G56
  - Microbial metabolism: QR92.G5
  - Plant constituent: QK898.G475
- Glucose-6-phosphatase
  - Animal biochemistry: QP609.G38

## INDEX

- Glucose dehydrogenase
  - Animal biochemistry: QP603.G55
- Glucosephosphate dehydrogenase
  - Animal biochemistry: QP603.G57
- Glucosidases
  - Animal biochemistry: QP609.G4
- Glucosides
  - Organic chemistry: QD325
- Glucuronic acid
  - Animal biochemistry: QP702.G57
- Glucuronides
  - Animal biochemistry: QP702.G572
- Glucuronosyltransferase
  - Animal biochemistry: QP606.G573
- Glucos
  - Elementary particle physics: QC793.5.G552+
- Glutamate dehydrogenase
  - Plant constituent: QK898.G48
- Glutamic acid
  - Animal biochemistry: QP562.G5
- Glutamic acid polymers
  - Organic chemistry: QD383.G57
- Glutamic-aspartic transaminase
  - Animal biochemistry: QP606.G58
- Glutamine
  - Animal biochemistry: QP562.G55
- Glutamine synthetase
  - Animal biochemistry: QP619.G58
- Glutaric acid
  - Animal biochemistry: QP801.G57
- Glutathione
  - Animal biochemistry: QP552.G58
  - Plant constituent: QK898.G485
- Glutathione transferase
  - Animal biochemistry: QP606.G59
- Gluten
  - Plant constituent: QK898.G49
- Glycerides
  - Animal biochemistry: QP752.G5
- Glycerol
  - Animal biochemistry: QP752.G55
- Glycine
  - Animal biochemistry: QP562.G58
- Glycoasparaginase
  - Animal biochemistry: QP609.G44
- Glycocalces, Bacterial
  - Microbiology: QR77.5
- Glycocalyces
  - Cytology: QH603.G55
- Glycocol
  - Animal biochemistry: QP562.G58
- Glycoconjugates
  - Animal biochemistry: QP702.G577
- Glycogen
  - Animal biochemistry: QP702.G58
- Glycogen phosphorylase
  - Animal biochemistry: QP606.G592
- Glycolic acid
  - Animal biochemistry: QP801.G63
- Glycolipids
  - Animal biochemistry: QP752.G56
- Glycopeptides
  - Animal biochemistry: QP552.G59
- Glycoprotein hormones
  - Animal biochemistry: QP572.G58
- Glycoproteins
  - Animal biochemistry: QP552.G59
  - Plant constituent: QK898.G497
- Glycosidases
  - Animal biochemistry: QP609.G45
- Glycosides
  - Animal biochemistry: QP702.G59
  - Organic chemistry: QD325
  - Plant constituent: QK898.G5
- Glycosphingolipids
  - Animal biochemistry: QP752.G58
- Glycosylated hemoglobin
  - Blood constituents: QP99.3.G55
- Glycosyltransferases
  - Animal biochemistry: QP606.G6
- Glycyphagidae: QL458.2.G4
- Glyphipterygidae: QL561.G65
- Glyphosate
  - Effect on plants and animals: QH545.G55
- Gmelinite
  - Mineralogy: QE391.G55
- Gnaphosidae: QL458.42.G5
- Gnathostomulida: QL391.G63
- Gneiss: QE475.G55
- Gnetaceae: QK494.5.G565
- Gnetales
  - Paleobotany: QE977.4
- GNN
  - Data processing system: QA76.57.G48
- Gnomoniaceae: QK623.G55
- Gnostidae: QL596.G6
- Go (Computer program language): QA76.73.G63
- Goatfishes: QL638.M85
- Goats
  - Laboratory manuals: QL813.G63
- Goatsuckers: QL696.C23
- Gobies: QL638.G7
- Gobiesocidae: QL638.G6
- Gobiidae: QL638.G7
- Gobioididae: QL638.G73
- Goblin shark: QL638.95.M58
- Gödel numbers: QA9.65
- Gödel's theorem: QA9.65
- Goeridae: QL518.G6
- Gold
  - Chemical element: Q1 .A9
  - Mineralogy: QE391.G6
- Gold alloys
  - Analytical chemistry: QD137.G6

## INDEX

- Gold ores
  - Mineralogy: QE390.2.G65
- Golden moles: QL737.A352
- Golgi apparatus
  - Cytology: QH603.G6
- Gomortegaceae: QK495.G65
- Gomphaceae: QK629.G6
- Gomphidae: QL520.3.G6
- Gonadotropin
  - Animal biochemistry: QP572.G6
- Gonatidae: QL430.3.G66
- Gondwana: QE511.5
- Goniatitidae
  - Paleozoology: QE807.G56
- Gonibregmatidae: QL449.55.G66
- Gonidomataceae: QK569.G7
- Goniometers: QC103
- Goniometric measurements (Crystallography): QD915
- Gonorhynchidae: QL638.G75
- Gonorhynchiformes
  - Paleozoology: QE852.G65
- Gonorrhea
  - Microbiology: QR201.G7
- Gonorynchiformes: QL637.9.G6
- Gonostomatidae: QL638.G8
- Gonyleptidae: QL458.52.G6
- Goodeidae: QL638.G82
- Goodeniaceae: QK495.G655
- Goosefishes: QL638.L75
- Goosefoot
  - Botany: QK495.C46
- Gordiacea: QL391.N5
- Gorillas
  - Anecdotes and stories: QL795.G7
- Gorytidae: QL568.G6
- Gosibiidae: QL449.55.G68
- Gourd
  - Botany: QK495.C96
- Government policy
  - Computer science: QA76.9.G68
- Governmental standardizing bureaus: QC100.A2+
- Gracilariaceae: QK569.G8
- Gradungulidae: QL458.42.G7
- Graft copolymers
  - Organic chemistry: QD382.G7
- Grain
  - Nutrition: QP144.G73
- Grallinidae: QL696.P2468
- Gram-positive bacterial infections
  - Microbiology: QR201.G76
- Gramicidins
  - Animal biochemistry: QP552.G7
- Gramineae: QK495.G74
- Grammatidae: QL638.G844
- Grammicolepididae: QL638.G843
- Grammistidae: QL638.G848
- Grammysiidae
  - Paleozoology: QE812.G7
- Grand unified theories
  - Nuclear interactions: QC794.6.G7
- Granite
  - Petrology: QE462.G7
- Granodiorite: QE462.G75
- Grants, Private
  - Science research: Q180.55.G7
- Granular computing
  - Computer science: QA76.9.S63
- Granulation of the sun: QB539.G7
- Granulite: QE475.G7
- Granulocyte antigens
  - Immunology: QR186.6.G73
- Granulocytes
  - Immunology: QR185.8.G73
  - Physiology: QP95.4
- Grape
  - Botany: QK495.V55
- Graph algorithms
  - Algebra: QA166.245
- Graph coloring
  - Algebra: QA166.247
- Graph connectivity: QA166.243
- Graph labelings
  - Algebra: QA166.197
- Graph theory
  - Algebra: QA166+
  - Chemistry: QD39.3.G73
  - Mathematical physics: QC20.7.G7
- Graphic algebra: QA219
- Graphic methods
  - Mathematical statistics: QA276.3
  - Physical chemistry: QD455.3.G7
- Graphical calculating: QA71+
- Graphical user interfaces
  - Computer science: QA76.9.U83
- Graphidaceae: QK585.G8
- Graphiolaceae: QK627.6
- Graphiolales: QK627.6
- Graptolithina
  - Paleozoology: QE840.5
- Grass
  - Botany: QK495.G74
- Grasshoppers
  - Laboratory manuals: QL813.G73
  - Zoology: QL508.A2
- Grassland birds
  - Zoology: QL677.79.G73
- Grassland ecology: QH541.5.P7
- Grasslands
  - Biogeography: QH87.7
  - Botany: QK938.P7
  - Ecology: QH541.5.P7
  - Zoology: QL115.3+
- Graveldivers: QL638.S45



## INDEX

- Gravitation, Constant of
  - Geodesy: QB341
- Gravitation, Theories of (Atomic physics): QC178
- Gravitational interactions
  - Nuclear physics: QC794.8.G7
- Gravitational lenses: QB857.5.G7
- Gravitational radiation
  - Atomic physics: QC179
- Gravitational waves
  - Atomic physics: QC179
- Gravity
  - Effect on cells: QH657
  - Mars (Planet): QB643.G73
  - Physiological effect: QP82.2.G7
- Gravity anomalies: QB337+
- Gravity determinations: QB330+
- Gravity observations: QB334+
- Gray matter, Periaqueductal
  - Neurophysiology: QP378.4
- Gray whales: QL737.C425
- Graybacks: QL520.3.P4
- Grazing incidence
  - Optics: QC437
- Great Attractor (Cosmology): QB991.G73
- Great Barrier Reef (Qld.)
  - Geology: QE566.G7
- Grebes: QL696.P586
- Greedoids
  - Algebra: QA166.6
- Greek early works on mathematics: QA31
- Green algae: QK569.C6
- Green-eyed skimmers: QL520.3.C68
- Green fluorescent protein
  - Animal biochemistry: QP552.G73
- Greeneyes: QL638.C549
- Greenhouse effect
  - Meteorology: QC912.3
- Greenlings: QL638.H49
- Green's functions
  - Electrochemistry: QD555.6.G74
- Green's functions (Quantum mechanics): QC174.17.G68
- Greenstone: QE462.G77
- Gregale
  - Meteorology: QC939.G73
- Gregarinida: QL368.G8
- Gregoryinidae: QL638.G85
- Grenadiers (Fishes)
  - Zoology: QL638.M2
- Grenz rays: QC482.G68
- Gressores
  - Paleozoology: QE872.C53
- Grids, Computational (Computer systems): QA76.9.C58
- Grimaldiaceae: QK555.G7
- Grimmiaceae: QK539.G7
- Griseliniaceae: QK495.G745
- Gromiida: QL368.G85
- Grooming behavior
  - Animals: QL760
- Grossulariaceae: QK495.G75
- Ground beetles: QL596.C2
- Ground sharks: QL638.94.C37
- Groundrollers: QL696.C725
- Groundwater
  - Ecology: QH541.5.G76
  - Zoology: QL118
- Groundwater ecology: QH541.5.G76
- Group guidance
  - Mathematics teaching aid: QA20.G76
- Group rings (Algebra): QA251.35
- Group selection
  - Biology: QH376
- Group theory
  - Algebra: QA174+
  - Mathematical physics: QC20.7.G76
  - Physical chemistry: QD455.3.G75
  - Quantum mechanics: QC174.17.G7
- Groupoids
  - Algebra: QA181
- Grouse (Phasianidae): QL696.G27
- Growth
  - Developmental physiology: QP84
  - Life: QH511
  - Plant physiology: QK731+
- Growth chambers: QK715.5
- Growth factors
  - Animal biochemistry: QP552.G76
  - Plant physiology: QK745
- Growth hormone releasing factor
  - Animal biochemistry: QP572.G75
- Grubbiaceae: QK495.G76
- Gruidae: QL696.G84
- Gruiformes: QL696.G8+
  - Paleozoology: QE872.G8
- Grunts: QL638.H23
- Gryllacrididae: QL508.G7
- Gryllidae: QL508.G8
- Grylloblattidae: QL509.3
- Grylloblattodea: QL509.3
- Gryllotalpidae: QL508.G87
- Gryphaeidae
  - Paleozoology: QE812.G78
  - Zoology: QL430.7.G78
- Guanidine
  - Animal biochemistry: QP801.G8
- Guanidines
  - Animal biochemistry: QP801.G83
- Guanosine triphosphatase
  - Animal biochemistry: QP609.G83
- Guans: QL696.G23
- Guanylate cyclase
  - Animal biochemistry: QP613.G8
- Guidance, Group
  - Mathematics teaching aid: QA20.G76

## INDEX

- Guineafowl
    - Zoology: QL696.G258
  - Guitarfishes: QL638.85.R4
  - Gulls
    - Zoology: QL696.C46
  - Gulper sharks: QL638.95.C36
  - Gums and resins
    - Biochemistry: QD419+
    - Spectra: QC463.G84
  - Gundis
    - Zoology: QL737.R64
  - Gunnbjarnite
    - Mineralogy: QE391.G8
  - Gunnels: QL638.P56
  - Gunneraceae: QK495.G83
  - Guttiferae: QK495.G87
  - GW-BASIC (Computer program language): QA76.73.G25
  - Gymnarchidae: QL638.G87
  - Gymnodontidae: QL638.T32
  - Gymnolaemata
    - Paleozoology: QE799.G95
  - Gymnophiona: QL668.A6+
  - Gymnosperms
    - Botany: QK494+
    - Paleobotany: QE975+
  - Gymnostomatida: QL368.G9
  - Gymnotidae: QL638.G9
  - Gymnotiformes: QL637.9.G94
  - Gymnuridae: QL638.85.G9
  - Gynoecium: QK659
  - Gyponidae: QL527.C49
  - Gypsum
    - Mineralogy: QE391.G93
  - Gyrinidae: QL596.G8
  - Gyrinocheilidae: QL638.G95
  - Gyropidae: QL540.3.G9
  - Gyroscope
    - Rigid dynamics: QA862.G9
  - Gyrostemonaceae: QK495.G877
  - Gyrotrons
    - Plasma physics: QC718.5.G95
- H
- H-2 locus
    - Immunogenetics: QR184.3+
  - H-spaces
    - Topology: QA612.77
  - H-Y antigen: QR184.35
  - Habitat conservation: QH75+
  - Habitat suitability index models
    - Ecology: QH541.15.H34
  - Habitat surveys
    - Ecology: QH541.15.S95
  - Habitations
    - Animal behavior: QL756+
  - Hadamard matrices
    - Algebra: QA166.4
  - Hadamard transform spectroscopy
    - Physics: QC454.H33
  - Hadrons
    - Elementary particle physics: QC793.5.H32+
  - Hadrotarsidae: QL458.42.H3
  - Haematomyzidae: QL570.3.H34
  - Haematopinidae: QL570.3.H37
  - Haematopinoididae: QL570.3.H38
  - Haematopodidae: QL696.C452
  - Haemodoraceae: QK495.H15
  - Haemophilus infections
    - Microbiology: QR201.H22
  - Haemosporida: QL368.H33
  - Haemulidae: QL638.H23
  - Hafnium
    - Chemical element: Q1 .H5
  - Hagfishes: QL638.14+
  - Hahniidae: QL458.42.H33
  - Hail
    - Meteorology: QC929.H15
  - Hair
    - Anatomy: QL942
    - Human anatomy: QM488
    - Physiology: QP88.3
  - Hairs
    - Shoots: QK650
  - Hairy fungus beetles: QL596.M92
  - Halacaridae: QL458.2.H3
  - Hale-Bopp comet: QB723.H17
  - Half-life
    - Radioactive substances: QC795.8.H3
  - Halfbeaks: QL638.H46
  - Halictidae: QL568.H3
  - Halictophagidae: QL599.3.H3
  - Halides
    - Mineralogy: QE389.4
  - Haliotidae: QL430.5.H34
  - Haliplidae: QL596.H2
  - Hall effect: QC612.H3
  - Halley's comet: QB723.H2
  - Hallucinogenic mushrooms: QK604.2.H34
  - Halobacteriovoraceae: QR82.H35
  - Halobiidae
    - Paleozoology: QE812.H34
  - Halocyprida: QL444.O83
  - Halogen compounds
    - Aliphatic compounds: QD305.H15
    - Aromatic compounds: QD341.H8
  - Halogen organic compounds
    - Animal biochemistry: QP801.H34
  - Halogenation
    - Organic chemistry: QD281.H3
  - Halogens
    - Geochemistry: QE516.H3
    - Inorganic chemistry: QD165

## INDEX

- Haloragaceae: QK495.H2
- Halos
  - Galaxies: QB857.5.H34
  - Meteorological optics: QC976.H15
- Halosauridae: QL638.H25
- Hamamelidaceae: QK495.H3
- Hamiltonian graph theory
  - Algebra: QA166.18
- Hamiltonian operator
  - Quantum mechanics: QC174.17.H3
- Hamiltonian systems
  - Mathematical physics: QC20.7.H35
  - Statistical physics: QC174.85.H35
  - Topology: QA614.83
- Hamilton's equations
  - Analytic mechanics: QA871
- Hammerhead sharks: QL638.95.S7
- Hammerheads: QL696.C58
- Hamsters: QL737.R666
  - Anecdotes and stories: QL795.H3
  - Laboratory manuals: QL813.H35
- Hand
  - Regional anatomy: QM548
- Hand lenses
  - Optical instruments: QC373.M33
- Hand muscles
  - Physiology: QP334
- Handfishes: QL638.B7
- Handlebodies
  - Differential topology: QA613.658
- Hang gliding
  - Effect on plants and animals: QH545.H34
- Hantavirus infections
  - Microbiology: QR201.H24
- Haplomitriaceae: QK555.H35
- Haplosporida: QL368.H34
- Haptens
  - Immunology: QR186.6.H3
- Haptoglobin
  - Blood constituents: QP99.3.H3
- Haptoglobins
  - Animal biochemistry: QP552.H3
- Hard disk management: QA76.9.H35
- Hardness
  - Crystallography: QD933
- Hares
  - Anecdotes and stories: QL795.H35
  - Zoology: QL737.L32
- Harmonic analysis: QA403+
- Harmonic functions
  - Potential theory: QA405
- Harmonic maps: QA614.73
- Harmonic motion
  - Analytic mechanics: QA867
- Harmonics (Electric waves)
  - Physical optics: QC446.3.H37
- Harpacticoida: QL444.C74
- Harpagiferidae: QL638.H28
- Harpagophoridae: QL449.65.H37
- Harpodontidae: QL638.H3
- Harriers (Birds): QL696.F32
- Harvey
  - Discovery of blood circulation: QP101.4
- Hashing
  - Computer science: QA76.9.H36
- Haskell (Computer program language): QA76.73.H37
- Hassium
  - Chemical element: Q1 .H8
- Haustoria
  - Plant anatomy: QK644.5
- Hawaiian honeycreepers
  - Zoology: QL696.P246
- Hawkfishes: QL638.C577
- Hawks
  - Zoology: QL696.F32
- Hazard analysis
  - Seismology: QE539.2.S34
  - Volcanoes: QE527.6
- Head
  - Anatomy: QL950.5
  - Regional anatomy: QM535
- Head muscles
  - Human anatomy: QM155
- Health behavior
  - Animals: QL756.6
- Health, Ecosystem: QH541.15.E265
- Hearing
  - Physiology: QP460+
- Hearing limits
  - Physiology: QP463
- Heart
  - Anatomy: QL838
  - Human histology: QM570.5
  - Physiology: QP111+
- Heart beat
  - Physiology: QP113
- Heart cells
  - Physiology: QP114.C44
- Heart membranes
  - Physiology: QP114.M46
- Heart vascular system
  - Human anatomy: QM181
- Heat
  - Bacterial physiology: QR97.H4
  - Effect on plants: QK755.5
  - Physics: QC251+
  - Physiological effect: QP82.2.H4
- Heat, Animal
  - Physiology: QP135
- Heat budget
  - Geophysics: QC809.E6
- Heat conductance
  - Plasma physics: QC718.5.T7
- Heat of combustion: QD516

## INDEX

- Heat of formation: QD516
  - Physics: QC310
- Heat of fusion
  - Physics: QC303
- Heat of solution
  - Physics: QC310
- Heat of vaporization
  - Physics: QC304
- Heat of wetting
  - Physics: QC310
- Heat production
  - Cells: QH635
  - Microbiology: QR94
- Heat production in plants (Botany): QK755.5
- Heat resistant polymers
  - Organic chemistry: QD382.H4
- Heat shock proteins
  - Animal biochemistry: QP552.H43
  - Immunology: QR186.6.H42
- Heat transfer
  - Physics: QC319.8+
- Heat waves
  - Weather: QC981.8.A5
- Heath
  - Botany: QK495.E68
- Heathlands
  - Botany: QK938.H4
  - Ecology: QH541.5.H43
- Heating
  - Dielectrics: QC585.7.H4
- Heating effects of electric currents: QC623
- Heavy ion collisions
  - Nuclear physics: QC794.8.H4
- Heavy ion induced interactions
  - Nuclear physics: QC794.8.H4
- Heavy ions
  - Electric discharge: QC702.7.H42
- Heavy leptons
  - Elementary particle physics: QC793.5.H34+
- Heavy metals
  - Effect on plants: QK753.H4
  - Effect on plants and animals: QH545.H42
  - Physiological effect: QP82.2.H44
- Heavy minerals
  - Mineralogy: QE364.2.H4
- Heavy particles
  - Physiological effect: QP82.2.H45
- Hebetoceratidae
  - Paleozoology: QE807.H4
- Hebridae: QL523.H4
- Hectopsyllidae: QL599.7.H4
- Hedenbergite
  - Mineralogy: QE391.H34
- Hedgehogs: QL737.E753
  - Anecdotes and stories: QL795.H4
- Hedgerows
  - Botany: QK938.H44
- Hedges
  - Botany: QK938.H44
- Heisenberg principle: QC174.17.H4
- Heleidae: QL537.C37
- Helicarionidae: QL430.5.H37
- Helicidae: QL430.5.H4
- Helicindae: QL430.5.H45
- Helicity
  - Elementary particle physics: QC793.3.H44
- Helicobacter pylori infections
  - Microbiology: QR201.H44
- Heliconiaceae: QK495.H35
- Heliconiidae: QL561.H42
- Helicopsychoidea: QL518.H4
- Helicosporida: QL368.H4
- Heliocaritidae: QL520.3.H44
- Heliodinidae: QL561.H44
- Heliornithidae: QL696.G845
- Helioseismology: QB539.I5
- Heliosphere: QB529+
  - Meteorology: QC881.2.H43
- Heliostat
  - Astronomical instruments: QB97
  - Optical instruments: QC373.H5
- Heliotropism
  - Plant physiology: QK776
- Heliozelidae: QL561.H448
- Heliozoa: QL368.H5
- Helium
  - Chemical element: Q1 .H4
  - Fluid mechanics: QC145.45.H4
- Helminthoglyptidae: QL430.5.H46
- Helminthology: QL392.A1+
- Helodermatidae: QL666.L247
- Helodidae: QL596.H38
- Helogeneidae: QL638.H444
- Helomyzidae: QL537.H44
- Heloridae: QL568.H4
- Helostomatidae: QL638.H448
- Helotiaceae: QK623.H35
- Helotidae: QL596.H4
- Helotrephidae: QL523.H44
- Helvellaceae: QK623.H4
- Helvite
  - Mineralogy: QE391.H38
- Hemagglutination tests
  - Antigen-antibody reactions: QR187.H38
- Hematin
  - Blood constituents: QP99.3.H35
- Hematite
  - Mineralogy: QE391.H4
- Hematoblasts
  - Blood constituents: QP99.3.H37
- Hematopoiesis
  - Physiology: QP92
- Hematopoietic system
  - Human histology: QM569.5

## INDEX

- Hematoporphyrin
  - Animal biochemistry: QP671.H4
- Heme
  - Animal biochemistry: QP671.H45
- Heme oxygenase
  - Animal biochemistry: QP603.H45
- Hemerobiidae: QL513.H5
- Hemerocallidaceae: QK495.H38
- Hemicellulose
  - Organic chemistry: QD323
  - Plant constituent: QK898.H45
- Hemichordata: QL612
  - Paleozoology: QE840.5
- Hemidiscaceae: QK569.H44
- Hemimeridae: QL510.3.H4
- Hemiodontidae: QL638.H45
- Hemipeplidae: QL596.H43
- Hemiphlebiidae: QL520.3.H45
- Hemiphractidae: QL668.E237
- Hemiprocnidae: QL696.A554
- Hemiptera
  - Paleozoology: QE832.H4
  - Zoology: QL521+
- Hemiramphidae: QL638.H46
- Hemiscorpiidae: QL458.72.H45
- Hemoglobin polymorphisms
  - Genetics: QH447.63.H45
- Hemocyanin
  - Blood constituents: QP99.3.H4
- Hemodynamics
  - Physiology: QP105+
- Hemoerythrin
  - Blood constituents: QP99.3.H45
- Hemoglobin
  - Blood constituents: QP96.5
- Hemolysis
  - Antigen-antibody reactions: QR187.H4
  - Blood physiology: QP99.5.H4
- Hemolytic plaque technique
  - Antigen-antibody reactions: QR187.H45
- Hemoproteins
  - Animal biochemistry: QP552.H46
- Henicocephalidae: QL523.E65
- Henicopidae: QL449.55.H4
- Heparin
  - Animal biochemistry: QP702.H4
- Hepaticae: QK551+
- Hepatitis vaccines: QR189.5.H46
- Hepatitis, Viral
  - Microbiology: QR201.H46
- Hepatocyte growth factor
  - Animal biochemistry: QP552.H48
- Hepialidae: QL561.H47
- Hepiaceae: QK585.H48
- Hepsetidae: QL638.H47
- Heptageniidae: QL505.3.H4
- Heptapsogastridae: QL540.3.H4
- Herbicides
  - Effect on plants: QK753.H45
  - Effect on plants and animals: QH545.H47
- Herbig-Haro objects
  - Astronomy: QB855.55
- Herbivora
  - Paleozoology: QE882.H47
- Hercynite
  - Mineralogy: QE391.H5
- Heredity and environment
  - Genetics: QH438.5
- Heresy in science: Q172.5.H47
- Hermaeidae: QL430.5.S75
- Hermanniidae: QL458.2.H38
- Hermaphroditism
  - Physiology: QP267
- Hernandiaceae: QK495.H42
- Hérons
  - Zoology: QL696.C52
- Herpes simplex virus
  - Virology: QR400.2.H47
- Herpestidae: QL737.C235
- Herpesvirus infections
  - Microbiology: QR201.H48
- Herpesvirus vaccines: QR189.5.H48
- Herpesviruses
  - Virology: QR400+
- Herrings
  - Zoology: QL638.C64
- Hersiliidae: QL458.42.H47
- Hesperiidae: QL561.H5
- Hesperinidae: QL537.H48
- Heterenchelyidae: QL638.H484
- Heteroceridae: QL596.H45
- Heterochain polymers
  - Organic chemistry: QD382.H48
- Heterocheylidae: QL458.2.H4
- Heterochlorida: QL368.H53
- Heterochrony
  - Biology: QH395
- Heterocyclic chemistry
  - Organic chemistry: QD399+
- Heterocyclic compounds
  - Organic chemistry: QD399+
  - Spectra: QC463.H4
- Heterodontidae: QL638.95.H4
- Heterozoology: QE852.H37
- Heterogeneous computing: QA76.88
- Heterogynidae: QL561.H53
- Heteromyidae: QL737.R66
- Heteropediaceae: QK569.H46
- Heteropneustidae: QL638.H486
- Heteropodidae: QL458.42.H48
- Heteroptera
  - Zoology: QL521+
- Heteroscorpionidae: QL458.72.H48

## INDEX

- Heterosphere
  - Meteorology: QC881.2.H48
- Heterostraci
  - Paleozoology: QE852.H4
- Heterothripidae: QL598.3.H4
- Heterotrichida: QL368.H55
- Heulandite
  - Mineralogy: QE391.H55
- Hexactinellida: QL373.H6
- Hexagrammidae: QL638.H49
- Hexahedrites
  - Astronomy: QB757.5.H49
- Hexanchidae: QL638.95.H48
- Hexanchiformes: QL638.94.H49
- Hexapoda
  - Paleozoology: QE831+
- Hexatrygonidae: QL638.85.H48
- Hexazinone
  - Effect on plants and animals: QH545.H49
- Hexisopodidae: QL458.82.H4
- Hexosamines
  - Animal biochemistry: QP702.H45
- Hexosediphosphatase
  - Animal biochemistry: QP609.H5
- Hiatellidae: QL430.7.H53
- Hibernation
  - Animal behavior: QL755
- Hierarchies
  - Recursion theory
    - Mathematical logic: QA9.62
- Hieroglyphics
  - Mathematics teaching: QA20.H54
- High-brightness accelerators
  - Nuclear physics: QC787.H53
- High density lipoproteins
  - Blood constituents: QP99.3.H53
- High energy interactions
  - Nuclear physics: QC794.8.H5
- High energy physics
  - Elementary particle physics: QC793.3.H5
- High performance computing: QA76.88
- High performance liquid chromatography
  - Animal biochemistry: QP519.9.H53
  - Microbiology: QR69.H54
- High pressure
  - Mineralogy: QE364.2.H54
  - Physics: QC280+
- High pressure biochemistry
  - Animal biochemistry: QP517.H53
- High pressure chemistry: QD538
- High pressure geosciences
  - Geology: QE33.2.H54
- High pressure ionization chambers
  - Nuclear physics: QC787.H54
- High pressure systems
  - Meteorology: QC880.4.H54
- High resolution spectroscopy
  - Physics: QC454.H618
- High temperature
  - Plasma physics: QC718.5.H5
- High temperature chemistry: QD515
- High temperature superconductors: QC611.98.H54
- High temperatures
  - Physics: QC276+
- High temperatures of gases: QC164.5
- Higher algebraic curves: QA565+
- Higher algebra: QA155
- Higher algebraic surfaces: QA571+
- Higher congruences
  - Number theory: QA244
- Higher geometrical drawing (Plane): QA497
- Higher nervous activity
  - Neurophysiology: QP395
- Hiking
  - Effect on plants and animals: QH545.H54
- Hilariimorphidae: QL537.H54
- Hilbert space
  - Quantum mechanics: QC174.17.H55
- Hilbert spaces: QA322.4
- Hillstream loaches: QL638.B153
- Himantandraceae: QK495.H5
- Himantariidae: QL449.55.H5
- Himantolophidae: QL638.H54
- Hiodontidae: QL638.H56
- Hipbone
  - Human anatomy: QM115
- Hippoboscidae: QL537.H57
- Hippocampus
  - Anatomy: QL938.H56
  - Neurophysiology: QP383.25
- Hippocastanaceae: QK495.H65
- Hippocrateaceae: QK495.H66
- Hippopotami
  - Anecdotes and stories: QL795.H6
  - Zoology: QL737.U57
- Hippopotamidae: QL737.U57
- Hipposideridae: QL737.C533
- Hippuric acid
  - Animal biochemistry: QP801.H45
- Hippuridaceae: QK495.H67
- Hippuritidae
  - Paleozoology: QE812.H57
- Hippuritoida (Rudists)
  - Paleozoology: QE812.H573
- Hirundinidae: QL696.P247
- Hispidae: QL596.H48
- Histaminase
  - Animal biochemistry: QP603.H55
- Histamine
  - Animal biochemistry: QP801.H5
- Hister beetles: QL596.H5
- Histeridae: QL596.H5

## INDEX

- Histidine
  - Animal biochemistry: QP562.H5
- Histochemistry
  - Cytology: QH613
- Histocompatibility
  - Immunogenetics: QR184.3+
- Histocompatibility antigens, Minor: QR184.34+
- Histocompatibility complex, Major: QR184.315
- Histocompatibility testing: QR187.H57
- Histology
  - Plant anatomy: QK671
- Histology, Comparative: QL807
- Histones
  - Animal biochemistry: QP552.H5
- History
  - Algebra: QA151
  - Analytic mechanics: QA802
  - Botany: QK15+
  - Computer science: QA76.17
  - Geometry: QA443.5
  - Mathematics: QA21+
  - Natural history: QH15+
  - Numeration: QA141.2
  - Science: Q124.6+
  - Topology: QA611.A3
- HIV
  - Virology: QR414.6.H58
- HIV infections
  - Microbiology: QR201.A37
- HLA antigens: QR184.32
- Hoarfrost
  - Meteorology: QC929.H6
- Hoatzins: QL696.G26
- Hodotermitidae: QL529.3.H6
- Hog cholera
  - Microbiology: QR201.H7
- Holes
  - Semiconductor physics: QC611.6.H6
- Holly
  - Botany: QK495.A67
- Holmes comet: QB723.H7
- Holmium
  - Chemical element: Q1 .H7
- Holocene, Recent
  - Paleobotany: QE931.3
  - Paleontology: QE741.3
  - Stratigraphy: QE699
- Holocentridae: QL638.H64
- Holocephali
  - Paleozoology: QE852.C48
- Holography
  - Physics: QC449+
- Holography, Acoustic: QC244.5
- Holography, Electron: QC449.3
- Holothurioidea: QL384.H7
  - Paleozoology: QE783.H7
- Holotricha: QL368.A22
- Homalonychidae: QL458.42.H6
- Home experiments
  - Chemistry: QD38
  - Physics: QC26
  - Science: Q164
- Home science experiments: Q164
- Homeobox genes: QH447.8.H65
- Homeostasis
  - Physiology: QP90.4
- Homoeogamiidae: QL505.7.H6
- Homogeneous spaces
  - Mathematical physics: QC20.7.H63
- Homological algebra: QA169
- Homology theory
  - Mathematical physics: QC20.7.H65
  - Topology: QA612.3+
- Homoplasmy
  - Biology: QH372.5
- Homoptera
  - Paleozoology: QE832.H65
  - Zoology: QL525+
- Homosexuality
  - Animal life: QP81.6
- Homosphere
  - Meteorology: QC881.2.H6
- Homotopy equivalences
  - Topology: QA612.72
- Homotopy groups
  - Topology: QA612.78
- Homotopy theory
  - Topology: QA612.7+
- Honey bush
  - Botany: QK495.M524
- Honeybees: QL568.A6
- Honeycreepers: QL696.P236
- Honeyeaters: QL696.P249
- Honeyguides: QL696.P55
- Honeysuckle
  - Botany: QK495.C199
- Hoofs
  - Anatomy: QL942
- Hookeriaceae: QK539.H64
- Hoopoes: QL696.U68
- Hopf algebras: QA613.8
- Hoplostigmataceae: QK495.H7
- Hoplichthyidae: QL638.H67
- Hoplocercidae: QL666.L248
- Hoplopleuridae: QL570.3.H64
- Hopping conduction
  - Solid state physics: QC176.8.H66
- Hopscotch (Computer program language): QA76.73.H57
- Horaichthyidae: QL638.H68
- Hormone control
  - Heart physiology: QP114.H6
- Hormone inhibition
  - Animal biochemistry: QP571.5

## INDEX

- Hormone receptors
  - Animal biochemistry: QP571.7
- Hormones
  - Animal biochemistry: QP571+
  - Microbial metabolism: QR92.H6
  - Plant constituent: QK898.H67
- Hormuridae: QL458.72.H67
- Hornbills: QL696.C729
- Hornblendite: QE462.H67
- Hornets
  - Anecdotes and stories: QL795.H65
  - Zoology: QL568.V5
- Horns
  - Anatomy: QL942
- Horntails: QL568.S57
- Hornwort: QK495.C4
- Hornworts: QK563.75+
- Horse bots: QL537.G3
- Horse chestnut
  - Botany: QK495.H65
- Horsehair worms: QL391.N5
- Horsehead Nebula: QB855.9.H67
- Horseradish tree
  - Botany: QK495.M74
- Horses
  - Zoology: QL737.U62
- Horses, Wild
  - Anecdotes and stories: QL795.H7
- Horseshoe bats: QL737.C58
- Hortonolite
  - Mineralogy: QE391.H8
- Hot carriers
  - Semiconductor physics: QC611.6.H67
- Hot laboratories
  - Nuclear chemistry: QD604.8+
- Hot spots
  - Radio astronomy: QB479.55.H68
- Hot spring ecology: QH541.5.H65
- Hot springs
  - Ecology: QH541.5.H65
  - Geology: QE528
  - Microbiology: QR107
  - Zoology: QL147
- Houndsharks: QL638.95.T75
- Hourglasses
  - Astronomy: QB214
- Houseflies
  - Zoology: QL537.M8
- Household ecology: QH541.5.H67
- Hoverflies: QL537.S9
- Howler monkeys: QL737.P915
- HP-GL/2 (Computer program language): QA76.73.H6
- HTLV infections
  - Microbiology: QR201.H86
- HTML (Document markup language): QA76.76.H94
- Hubbardiidae
  - Zoology: QL458.692.H82
- Huebnerite: QE391.H84
- Huias: QL696.P224
- Human anatomy: QM1+
- Human anatomy, Comparative: QM24
- Human biology: QP34+
- Human computation
  - Computer science: QA76.9.H84
- Human-computer interaction: QA76.9.H85
- Human embryology
  - Human anatomy: QM601+
- Human factors
  - Computer software: QA76.76.H85
- Human genetics
  - Biology: QH431
- Human histology
  - Human anatomy: QM550+
- Human immunogenetics: QR184.2
- Human physiology: QP34+
- Human-plant relationships
  - Botany: QK46.5.H85
- Humans and animals: QL85
- Humidity
  - Meteorology: QC915+
  - Physiological effect: QP82.2.H8
- Humiriaceae: QK495.H8
- Humite
  - Mineralogy: QE391.H86
- Hummingbirds
  - Zoology: QL696.A558
- Humoral immunity: QR185.4
- Humpbacked flies: QL537.P46
- Hunger
  - Physiology: QP137+
- Huperziaceae: QK524.H87
- Hurricanes
  - Meteorology: QC944+
- Hutias: QL737.R63
- Hyacinths: QK495.A83
- Hyaenidae: QL737.C24
- Hyaloscyphaceae: QK623.H76
- Hyalospongea: QL373.H6
- Hyaluronic acid
  - Animal biochemistry: QP702.H8
- Hyaluronidase
  - Animal biochemistry: QP609.H8
- Hyblaeidae: QL561.H9
- Hybosoridae: QL596.H78
- Hybrid computers: QA76.38
- Hybrid zones
  - Animals: QH425
  - Evolution: QH421+
- Hybridization
  - Animals: QH425
  - Evolution: QH421+
  - Plants: QK982
- Hybridomas: QR185.8.H93
- Hydnaceae: QK629.H8



## INDEX

- Hydnoraceae: QK495.H84
- Hydrachnidae: QL458.2.H9
- Hydraenidae: QL596.H79
- Hydrargyrum
  - Chemical element: Q1 .H6
- Hydrates
  - Physical chemistry: QD474
- Hydration
  - Chemistry: QD63.H87
- Hydrazides
  - Aliphatic compounds: QD305.A7
  - Aromatic compounds: QD341.A7
- Hydrazines
  - Animal biochemistry: QP801.H78
- Hydrazo compounds
  - Aliphatic compounds: QD305.A9
  - Aromatic compounds: QD341.A9
- Hydride electrodes: QD572.H94
- Hydrides
  - Spectra: QC464.H93
- Hydrobatidae: QL696.P64
- Hydrobiidae: QL430.5.H9
- Hydroboration
  - Organic chemistry: QD281.H78
- Hydrocarbon compounds
  - Mineralogy: QE389.8+
- Hydrocarbons
  - Aliphatic compounds: QD305.H5+
  - Animal biochemistry: QP801.H9
  - Aromatic compounds: QD341.H9
  - Effect on plants and animals: QH545.H92
  - Radiation chemistry: QD651.H93
  - Spectra: QC463.H9
- Hydrocaryaceae
  - Botany: QK495.T66
- Hydrochaeridae: QL737.R662
- Hydrocharitaceae: QK495.H86
- Hydrochloric acid
  - Spectra: QC464.H934
- Hydrodynamics
  - Analytic mechanics: QA911+
  - Plasma physics: QC718.5.H9
- Hydroelectric power plants
  - Effect on plants and animals: QH545.H93
- Hydroformylation
  - Organic chemistry: QD281.H79
- Hydrogen
  - Chemical element: Q1 .H1
  - Fluid mechanics: QC145.45.H9
  - Microbial metabolism: QR92.H8
- Hydrogen bonding
  - Animal biochemistry: QP517.H93
- Hydrogen fluoride
  - Spectra: QC464.H936
- Hydrogen, Interstellar: QB791.5
- Hydrogen-ion concentration
  - Bacterial physiology: QR97.A3
- Hydrogen-ion concentration
  - Effect on plants: QK753.H93
  - Electrochemistry: QD562.H93
- Hydrogenase
  - Animal biochemistry: QP603.H88
- Hydrogenation
  - Chemistry: QD63.H9
  - Organic chemistry: QD281.H8
- Hydroids: QL377.H9
- Hydrolases
  - Animal biochemistry: QP608+
- Hydrolysis
  - Organic chemistry: QD281.H83
- Hydromedusae: QL377.H9
- Hydrometers
  - Fluid mechanics: QC148.4
  - Meteorology: QC916
- Hydrometridae: QL523.H93
- Hydrophiidae: QL666.O64
- Hydrophilidae: QL596.H8
- Hydrophyllaceae: QK495.H88
- Hydropsychidae: QL518.H94
- Hydroptilidae: QL518.H95
- Hydroscaphidae: QL596.H85
- Hydrosilylation
  - Organic chemistry: QD281.H84
- Hydrostachyaceae: QK495.H885
- Hydrostatics
  - Analytic mechanics: QA905+
  - Fluid mechanics: QC145.5+
- Hydrothermal alteration: QE390.5
- Hydrothermal deposits: QE390.5
- Hydrothermal vents
  - Ecology: QH541.5.D35
  - Marine microbiology: QR106.5
  - Zoology: QL125.6
- Hydroxylases
  - Animal biochemistry: QP603.H9
- Hydroxylation
  - Organic chemistry: QD281.H85
- Hydroxymethylglutaryl coenzyme A reductases
  - Animal biochemistry: QP603.H92
- Hydroxyprogesterone
  - Animal biochemistry: QP572.H85
- Hydrozoa: QL377.H9
  - Paleozoology: QE779
- Hydryphantidae: QL458.2.H98
- Hyenae
  - Zoology: QL737.C24
- Hyeniales
  - Paleobotany: QE965
- Hygrobidae: QL596.H9
- Hygrometry
  - Meteorology: QC915+
- Hygrophoraceae: QK629.H86
- Hyidae: QL458.62.H9
- Hylidae: QL668.E24

## INDEX

- Hylobatidae: QL737.P943  
 Hylomorphism  
   Philosophy of science: Q175.32.H95  
 Hymenochaetaceae: QK629.H89  
 Hymenogastraceae: QK629.H9  
 Hymenomyces: QK626+  
 Hymenophyllaceae: QK524.H9  
 Hymenopodidae: QL505.9.H94  
 Hymenoptera  
   Paleozoology: QE832.H9  
   Zoology: QL563+  
 Hymenostomatida: QL368.H87  
 Hynobiidae: QL668.C25  
 Hyocephalidae: QL523.H96  
 Hyper-branched polymers  
   Organic chemistry: QD382.B73  
 Hyperbolic tables: QA55+  
 Hyperelliptic functions: QA345  
 Hyperfine interactions  
   Nuclear magnetism: QC762.6.H94  
 Hyperfine spectra  
   Physics: QC454.H9  
 Hyperfine structure  
   Atomic physics: QC173.4.H95  
 Hypergeometric functions  
   Analysis: QA353.H9  
 Hypergraphs  
   Algebra: QA166.23  
 Hypermastigida: QL368.H9  
 Hypermedia  
   Computer software: QA76.76.I59  
 Hyperoliidae: QL668.E244  
 Hyperons  
   Elementary particle physics: QC793.5.H42+  
 Hyperoscelididae: QL537.C26  
 Hypersensitivity  
   Immunology: QR188  
 Hyperspace  
   Geometry: QA691+  
 HyperTalk (Computer program language): QA76.73.H96  
 Hypertext document markup languages: QA76.76.H94  
 Hypertext systems  
   Computer software: QA76.76.H94  
 Hyphomycetes: QK625.A1  
 Hypnobryales: QK539.H95  
 Hypnotic conditions  
   Physiology: QP425+  
 Hypocephalidae: QL596.H95  
 Hypochilidae: QL458.42.H9  
 Hypocreaceae: QK623.H86  
 Hypodermatidae: QL537.O4  
 Hypogastruridae: QL503.H9  
 Hypoglycin  
   Animal biochemistry: QP552.H9  
 Hypogeous fungi: QK604.2.H95  
 Hypokinesia  
   Physiology: QP310.5  
 Hypomycetaceae: QK623.H87  
 Hypophthalmidae: QL638.H93  
 Hypopterygiaceae: QK539.H96  
 Hypoptychidae: QL638.H935  
 Hyposittidae: QL696.P2474  
 Hyposmocomidae: QL561.H97  
 Hypothalamic hormones  
   Animal biochemistry: QP572.H9  
 Hypothalamic-pituitary-adrenal axis: QP188.H88  
 Hypothalamo-hypophyseal system  
   Physiology: QP188.H9  
 Hypothalamus  
   Anatomy: QL938.H94  
   Neurophysiology: QP383.7+  
 Hypothermia  
   Heart physiology: QP114.H94  
 Hypotheses, Testing of  
   Mathematical statistics: QA277+  
 Hypotrichida: QL368.H95  
 Hypoxidaceae: QK495.H9  
 Hypsiprymnodontidae: QL737.M348  
 Hyracoidea: QL737.H85+  
 Hyraxes: QL737.H9  
 Hyriidae: QL430.7.H87  
 Hysteresigraph: QC755.675.H9  
 Hysteresis  
   Magnetism: QC754.2.H9  
 Hysteriaceae: QK623.H88  
 Hystrichopsyllidae: QL599.7.H9  
 Hystrichothripidae: QL598.3.H9  
 Hystricidae: QL737.R664

I

- Ia antigens: QR184.4  
 Ibalidae: QL568.I15  
 Ibises: QL696.C585  
   Paleozoology: QE872.T5  
 IBM 360: QA76.8.I12  
 Icacinaceae: QK495.I25  
 Ice  
   Freshwater biology: QH100  
   Meteorology: QC926.3+  
 Ice crystals  
   Cloud physics: QC921.6.C6  
 Ice plant  
   Botany: QK495.A32  
   Plant ecology: QK916  
 Ice sheets and climate  
   Meteorology: QC981.8.I23  
 Iceland spar  
   Mineralogy: QE391.C2  
 Icelidae: QL638.I13  
 Ichneumonidae: QL568.I2  
 Ichnology: QE720.5  
 Ichthyboridae: QL638.I15  
 Ichthyodectiformes: QE852.I35

## INDEX

- Ichthyoliths: QE851.2
- Ichthyology: QL614.8+
- Ichthyophiidae: QL668.A65
- Ichthyosauria: QE862.I2
- Ichthyostegalia: QE868.I25
- Icosteidae: QL638.I23
- Ictaluridae: QL638.I3
- Icteridae: QL696.P2475
- Idempotents
  - Mathematical physics: QC20.7.I33
- Identification
  - Botany: QK97.5
  - Fungi: QK604.2.I36
- Identities
  - Algebra: QA164.9
- Identity (Philosophical concept)
  - Physics: QC6.4.I34
- Idéologues (French philosophers)
  - Philosophy of science: Q175.32.I34
- Ideoroncidae: QL458.62.I3
- Idiacanthidae: QL638.I35
- Idiotypic networks
  - Immunology: QR186.3
- Idolothripidae: QL598.3.I3
- IgA
  - Immunology: QR186.8.A2
- IgD: QR186.8.D2
- IgE: QR186.8.E2
- IgG: QR186.8.G2
- IgM: QR186.8.M2
- Igneous rocks
  - Petrology: QE461+
- Ignimbrite: QE462.I35
- Iguanidae: QL666.L25
- IKe bacteriophage: QR342.2.I43
- Ilimaussite
  - Mineralogy: QE391.I4
- Illiciaceae: QK495.I4
- Illinium
  - Chemical element: Q1 .P5
- Illuminating apparatus for microscopes: QH215
- Illumination
  - Astronomical instruments: QB115
- Ilmenite: QE391.I44
- Images
  - Optics: QC397.5.I53
- Imaging
  - Neurophysiology: QP376.6
- Imaging systems
  - Astronomy: QB51.3.I45
- Imbeddings
  - Topology: QA611.21
- Imidazole
  - Spectra: QC463.I44
- Imides
  - Aliphatic compounds: QD305.I6
- Imidoesters
  - Aliphatic compounds: QD305.I6
- Imino compounds
  - Aromatic compounds: QD341.I6
- Imino sugars
  - Animal biochemistry: QP702.I45
- Immersion in water
  - Physiological effect: QP82.2.W35
- Immersion method
  - Determinative mineralogy: QE369.I55
- Immidae: QL561.I45
- Immobilization
  - Cells: QH585.5.I45
  - Zoology collecting technique: QL62.5
- Immune complexes: QR185.8.I45
- Immune recognition
  - Immunology: QR185.95
- Immune response
  - Immunology: QR186+
- Immune structures
  - Immunology: QR185.7+
- Immune system
  - Phylogeny: QR184.6
- Immunity
  - Molecular aspects: QR185.6
- Immunity, Acquired: QR185.3+
- Immunity, Cellular: QR185.5
- Immunity, Humoral: QR185.4
- Immunity, Maternally acquired: QR185.33
- Immunity, Natural: QR185.2
- Immunoabsorption: QR187.I44
- Immunoassay
  - Animal biochemistry: QP519.9.I42
- Immunoblotting
  - Animal biochemistry: QP519.9.I43
- Immunochemistry: QR183.6
- Immunocomputers: QA76.875
- Immunocytochemistry
  - Immunology: QR187.I45
- Immunodeficiency
  - Immunology: QR188.35
- Immunodiffusion: QR187.I46
- Immuno-electrophoresis
  - Microbiology: QR187.I47
- Immunoenzyme technique
  - Animal biochemistry: QP519.9.I44
- Immunofluorescence: QR187.I48
- Immunogenetics
  - Immunology: QR184+
- Immunoglobulin A: QR186.8.A2
- Immunoglobulin-binding proteins
  - Microbial metabolism: QR92.I4
- Immunoglobulin D: QR186.8.D2
- Immunoglobulin E: QR186.8.E2
- Immunoglobulin G: QR186.8.G2
- Immunoglobulin M: QR186.8.M2

## INDEX

- Immunoglobulins
  - Immunology: QR186.7+
- Immunogold labeling: QR187.I482
- Immunoinformatics: QR182.2.I46
- Immunologic adjuvants: QR187.3
- Immunologic memory: QR185.35
- Immunology
  - Fishes: QL638.97
  - Insects: QL492.5
  - Invertebrates: QL362.85
  - Microbiology: QR180+
- Immunology, Developmental: QR184.5
- Immunology, Reproductive
  - Physiology: QP252.5
- Immunophenotyping: QR187.I486
- Immunosuppression
  - Immunology: QR188.45+
- Immunotaxonomy: QR183.8
- Immunotechnology: QR183.5
- IMP dehydrogenase
  - Animal biochemistry: QP603.I54
- Impact
  - Elasticity: QA937
- Impact craters
  - Geology: QE612+
- Impedance spectroscopy
  - Electrochemical analysis: QD116.I57
- Imprinted polymers: QD382.I43
- Imprinting
  - Animals: QL763.2
- Impulse propagation
  - Nervous system: QP363
- In situ hybridization: QH452.8
- Inactivation
  - Microbiology: QR69.I53
- Inactivity
  - Physiology: QP310.5
- Inarticulata
  - Paleozoology: QE797.I5
- Incense tree
  - Botany: QK495.B8
- Incidence
  - Optics: QC437
- Inclusion bodies
  - Cytology: QH603.I49
- Inclusive interactions
  - Nuclear physics: QC794.8.I52
- Incompressible fluids
  - Fluid dynamics: QC152
- Incurvariidae: QL561.I5
- Indefinite inner product spaces
  - Functional analysis: QA322.5
- Index theorems
  - Topology: QA614.92
- Indexes of plants: QK11
- Indianite: QE391.I53
- Indican
  - Animal biochemistry: QP801.I4
- Indicatoridae: QL696.P55
- Indicators
  - Analytical chemistry: QD77
  - Ecology: QH541.15.I5
  - Organic chemistry: QD271.3+
- Indium
  - Chemical element: Q1 .I5
- Indium arsenide
  - Semiconductor physics: QC611.8.I52
- Individual device drivers
  - Computer software: QA76.76.D49
- Individualized instruction
  - Mathematics teaching: QA20.I53
- Indocyanine green
  - Animal biochemistry: QP801.I43
- Indolacetic acid
  - Effect on plants: QK753.I5
- Indole
  - Animal biochemistry: QP801.I45
- Indole alkaloids
  - Plant constituent: QK898.I53
  - Spectra: QC463.I5
- Indostomidae: QL638.I4
- Indridae: QL737.P945
- Induced mutation
  - Genetics: QH465.A1+
- Induced radioactivity
  - Physics: QC795.55.I5
- Induced seismicity: QE539.2.I46
- Inductance
  - Electrodynamics: QC638
- Induction
  - Electrodynamics: QC638
  - Electrostatics: QC581.I5
- Induction coils
  - Electrodynamics: QC645
- Induction machines: QC573
- Inductively coupled plasma spectrometry: QD96.I47
- Industrial microbiology: QR53+
- Inelastic scattering
  - Nuclear interactions: QC794.6.S3
- Inequalities of the moon's motion: QB392.I5
- Inertia
  - Descriptive mechanics: QC137
- Inertial confinement fusion: QC791.775.P44
- Infanticide
  - Animals: QL762.5
- Inference
  - Philosophy of science: Q175.32.I54
- Inferior planets: QB606+
- Infinitary languages
  - Mathematical logic: QA9.37
- Infinite groups
  - Algebra: QA178

## INDEX

- Infinite products
  - Mathematical series: QA295
- Infinitesimal geometry: QA615+
- Infinitesimal transformations: QA385+
- Inflationary universe: QB991.I54
- Inflorescence
  - Spermatophytes: QK653+
- Influenza
  - Microbiology: QR201.I6
- Influenza vaccines: QR189.5.I5
- Information centers
  - Science: Q223.2+
- Information processing
  - Neurophysiology: QP396
- Information resources
  - Climatic change: QC902.92
- Information services
  - Biology: QH303.15+
  - Botany: QK9.3
  - Chemistry: QD8.3
  - Computer science information: QA76.162
  - Ecology: QH541.183
  - Fishes: QL614.74
  - Geology: QE48.86
  - Mathematics: QA41.5
  - Natural history: QH13.3
  - Paleontology: QE704.2
  - Physics: QC5.35
  - Planets: QB600.32
  - Science: Q223.2+
  - Zoology: QL9.3
- Information theory
  - Biology: QH507
  - Cybernetics: Q350+
  - Mathematics: QA10.4
  - Optics: QC370
- Information visualization
  - Computer science: QA76.9.I52
- INFORMIX-4GL (Computer program language): QA76.73.I22
- Infrared astronomy: QB470.A1+
- Infrared radiation
  - Planets: QB603.I52
- Infrared spectroscopy
  - Analytical chemistry: QD96.I5
  - Animal biochemistry: QP519.9.I48
  - Biological research: QH324.9.I5
- Infrared spectrum
  - Physics: QC457
- Infrasonic waves
  - Physiological effect: QP82.2.I45
- Infrasonics (Physics): QC243.5
- Infusoria
  - Invertebrates: QL365
- Ingestion
  - Cells: QH634
  - Physiology: QP147
- Inhibin
  - Animal biochemistry: QP572.I47
- Inhibition
  - Neurophysiology: QP365
- Inhomogeneous materials
  - Atomic physics: QC173.4.I53
- Iniidae: QL737.C436
- Initial value problems
  - Differential equations: QA378
- Injured wildlife, Rescue of
  - Zoology: QL83.2
- Inner Bremsstrahlung: QC484.6.I5
- Inner product spaces
  - Functional analysis: QA322.4
- Inoceliidae: QL513.I5
- Inoceramidae
  - Paleozoology: QE812.I5
- Inorganic acids
  - Inorganic chemistry: QD167
- Inorganic chemistry: QD146+
- Inorganic chemistry, Physical: QD475
- Inorganic polymers: QD196
- Inorganic reaction mechanisms: QD502.5
- Inorganic scintillators
  - Radiation physics: QC476.75
- Inorganic substances
  - Animal biochemistry: QP531+
  - Spectra: QC464.A+
- Inorganic synthesis: QD156
- Inosine
  - Animal biochemistry: QP625.I54
- Inositol
  - Animal biochemistry: QP772.I5
  - Plant constituent: QK898.I55
- Input design
  - Computer science: QA76.9.I55
- Insect venoms
  - Animal biochemistry: QP632.I57
- Insecticides
  - Animal biochemistry: QP801.I48
  - Effect on plants: QK753.I54
- Insectivora: QL737.I5+
- Insectivores: QL737.I5+
  - Paleozoology: QE882.I5
- Insectivorous plants
  - Plant ecology: QK917
- Insects
  - Paleozoology: QE831+
  - Zoology: QL461+
- Insertion elements, DNA: QH462.I48
- Insertional mutagenesis: QH463.13.I57
- Instability
  - Plasma physics: QC718.5.S7
- Install programs
  - Computer software: QA76.76.I55
- Instinct
  - Animals: QL781

## INDEX

- Instinct
  - Birds: QL698.3
  - Hymenoptera: QL569.4
  - Insects: QL496
  - Lepidoptera: QL562.4
- Instrumental analysis
  - Analytical chemistry: QD79.I5
- Instruments, Mathematical: QA71+
- Insulin
  - Animal biochemistry: QP572.I5
- Insulin-like growth factor-binding proteins
  - Animal biochemistry: QP552.I54
- Integers, Sequences of
  - Number theory
    - Algebra: QA246.5
- Integral calculus: QA308+
- Integral equations
  - Analysis: QA431
  - Mathematical physics: QC20.7.I58
  - Quantum mechanics: QC174.17.I58
- Integral field spectroscopy: QC454.I48
- Integral geometry: QA672
- Integral operators
  - Functional analysis: QA329.6
- Integrals, Tables of
  - Calculus: QA310
- Integrated software: QA76.76.I57
- Integration
  - Integral calculus: QA312+
- Integrins
  - Animal biochemistry: QP552.I55
- Integrity, Ecological
  - Biology: QH541.15.E245
- Integument
  - Anatomy: QL941+
  - Human anatomy: QM481+
- Intellect
  - Neurophysiology: QP398
- Intellectual freedom
  - Philosophy of science: Q175.32.I58
- Intelligence
  - Animals: QL785+
- Intelligent agents
  - Computer software: QA76.76.I58
- Intensity of earthquakes: QE539.2.I5
- Interaction
  - Microbiology: QR96.5
- Interactive computer systems: QA76.9.I58
- Interactive media
  - Computer software: QA76.76.I59
- Interdisciplinary research in science: Q180.55.I48
- Interfaces
  - Atomic physics: QC173.4.I57
  - Electrochemistry: QD555.6.I58
  - Polymers: QD381.9.S97
- Interference
  - Optics: QC410.9+
- Interference microscopes: QH212.I5
- Interferometer: QC410.9+
- Interferometry
  - Optical measurements: QC367.3.I58
- Interferons
  - Immunology: QR187.5
- Interior of the sun: QB539.I5
- Interleukins
  - Immunology: QR185.8.I56
- Intermediate bosons
  - Elementary particle physics: QC793.5.B62+
- Intermediates (Meteorites): QB759
- Intermedin
  - Animal biochemistry: QP572.M75
- Internal conversion
  - Nuclear interactions: QC794.6.I5
  - Radioactive substances: QC795.8.I5
- Internal reflection spectroscopy
  - Physics: QC454.I5
- Internal structure of planets: QB603.I53
- Internal structure of the earth: QE509+
- International Biological Programme: QH9.5
- International cooperation
  - Meteorology: QC866.5.I5
  - Science: Q172.5.I5
  - Space sciences: QB500.26.I58
- International Geophysical Committee: QC801.3
- International Geophysical Year: QC801.3
- International system of units: QC90.8+
- International Years of the Quiet Sun: QC801.4
- Internet
  - Astronomy: QB14.3
  - Biology: QH303.5
  - Botany: QK9.4
  - Chemistry: QD9.3
  - Climatic change: QC902.93
  - Dinosaurs: QE861.35
  - Ecology: QH541.185
  - Fishes: QL614.75
  - Geology: QE48.87
  - Mammals: QL701.8
  - Mathematics: QA41.6
    - Study and teaching: QA11.5
  - Meteorology: QC866.5.C67
  - Natural history: QH13.4
  - Paleontology: QE704.3
  - Physics: QC5.4
  - Planets: QB600.34
  - Science communication: Q224.5
  - Science research: Q179.97
  - Science study and teaching: Q182.7
  - Zoology: QL9.4
- Internet programming
  - Digital computers: QA76.625
- Interphotoreceptor retinoid-binding protein
  - Animal biochemistry: QP552.I56
- Interplanetary dust: QB603.I55

## INDEX

- Interplanetary medium: QB603.I55
- Interpolation
  - Mathematics: QA281
- Intersection graph theory
  - Algebra: QA166.185
- Intersection homology theory: QA612.32
- Intersensory effects
  - Physiology: QP442
- Interstellar hydrogen: QB791.5
- Interstellar magnetic fields: QB791.7
- Interstellar matter: QB790+
- Intertidal fishes
  - Zoology: QL620.6
- Intertidal zones
  - Ecology: QH541.5.S35
- Interval analysis
  - Numerical analysis: QA297.75
- Intervention, Response to
  - Mathematics teaching: QA20.R47
- Intestines
  - Anatomy: QL863
  - Human anatomy: QM345
  - Microbiology: QR171.I6
  - Physiology: QP156
- Intramercurial planets: QB607
- Intranet programming
  - Digital computers: QA76.625
- Intraocular pressure
  - Neurophysiology: QP476.3
- Intrinsic factor
  - Animal biochemistry: QP552.G35
- Introduced animals
  - Zoology: QL86
- Introduced aquatic organisms
  - Aquatic biology: QH90.8.I57
- Introduced birds
  - Zoology: QL677.79.I58
- Introduced freshwater organisms
  - Freshwater biology: QH96.8.I57
- Introduced organisms
  - Biology: QH353
- Introduced vertebrates
  - Zoology: QL606
- Intrusive bodies
  - Geology: QE611+
- Intuitionistic mathematics
  - Mathematical logic: QA9.47
- Inulin
  - Animal biochemistry: QP702.I5
- Invariance
  - Elementary particle physics: QC793.3.S9
  - Quantum mechanics: QC174.17.S9
- Invariant embedding
  - Statistical physics: QC175.25.I6
- Invariants
  - Vector and tensor algebra: QA201
- Inverse problems
  - Differential equations: QA378.5
- Inversion
  - Chromosomal mutation: QH462.I5
- Inversions
  - Modern geometry: QA473+
- Invertase
  - Animal biochemistry: QP609.F7
- Invertebrate embryology: QL958
- Invertebrates
  - Nervous system: QL935
  - Paleozoology: QE770+
  - Zoology: QL360+
- Iodides
  - Mineralogy: QE389.4
- Iodine
  - Chemical element: Q1 .I1
  - Effect on plants: QK753.I6
- Iodopsin
  - Animal biochemistry: QP671.I5
- Ion channels
  - Cytology: QH603.I54
- Ion cyclotron resonance spectroscopy
  - Analytical chemistry: QD96.I54
- Ion exchange
  - Chemistry: QD63.I55
  - Cytology: QH604.5
  - Electrochemistry: QD562.I63
- Ion exchange chromatography
  - Analytical chemistry: QD79.C453
  - Animal biochemistry: QP519.9.I54
- Ion exchange membranes
  - Electrochemistry: QD562.I63
- Ion flow dynamics
  - Electricity: QC717+
- Ion-hydrogen concentration
  - Electrochemistry: QD562.H93
- Ion implantation
  - Electric discharge: QC702.7.I55
- Ion mobility spectroscopy: QD96.P62
- Ion selective electrodes
  - Animal biochemistry: QP519.9.E43
  - Cytology: QH585.5.E43
  - Electrochemistry: QD572.I66
- Ion swarms
  - Electric discharge: QC702.7.I57
- Ion waves
  - Plasma physics: QC718.5.W3
- Ionic mobility
  - Electricity: QC717.5.I6
- Ionization
  - Electrochemistry: QD562.I65
  - General: QD561+
  - Physics: QC701.7+
- Ionization chambers: QC787.I6
- Ionized air
  - Physiological effect: QP82.2.I5

## INDEX

- Ionized gases
  - Physics: QC717.6+
- Ionizing radiation
  - Nuclear physics: QC794.95+
  - Physiological effect: QP82.2.I53
- Ionomers
  - Organic chemistry: QD382.I45
- Ionophores
  - Animal biochemistry: QP801.I55
- Ionosphere
  - Meteorology: QC881.2.I6
  - Planets: QB603.I57
- Ionospheric influences
  - Elementary particle physics: QC793.3.C6
- Ionospheric radio wave absorption: QC973.4.I6
- Ionospheric radio waves
  - Radio meteorology: QC973.4.I6
- Ions
  - Electrochemistry: QD561+
  - Physics: QC701.7+
- iOS
  - Computer software
    - Operating systems: QA76.774.I67
- iPad: QA76.8.I63
- iPhone: QA76.8.I64
- Ipidae: QL596.I7
- Ipnopidae: QL638.I6
- Ir genes: QR184.4
- Irenidae: QL696.P2585
- Iridaceae: QK495.I75
- Iridium
  - Chemical element: Q1 .I7
- Iridoviruses
  - Virology: QR401
- Iris
  - Botany: QK495.I75
- Iron
  - Chemical element: Q1 .F4
  - Effect on plants: QK753.I7
  - Magnetic materials: QC766.I7
  - Microbial metabolism: QR92.I7
  - Mineralogy: QE391.I7
  - Plant constituent: QK898.I7
- Iron alloys
  - Analytical chemistry: QD133
- Iron electrodes: QD572.I76
- Iron group
  - Inorganic chemistry: QD172.I7
- Iron meteorites
  - Astronomy: QB757+
- Iron ores
  - Mineralogy: QE390.2.I76
- Iron proteins
  - Animal biochemistry: QP552.I67
- Iron-sulfur proteins
  - Animal biochemistry: QP552.I7
- Ironomyiidae: QL537.I76
- Irrational numbers
  - Algebra: QA247.5
- Irreversible processes
  - Quantum mechanics: QC174.17.I76
  - Thermodynamics: QC318.I7
- Irritability
  - Cells: QH647
  - Microbiology: QR96
  - Physiology: QP310.I7
- Irritability in plants
  - Plant physiology: QK771+
- Irrrotational motions
  - Fluid mechanics: QA913
- Ischnochitonidae: QL430.14.I83
- Ischnopsyllidae: QL599.7.I3
- Ischnuridae: QL458.72.H45
- Ischyropsalidae: QL458.52.I7
- Ising model (Statistical physics): QC174.85.I8
- Island arcs
  - Geology: QE511.2
- Island ecology: QH541.5.I8
- Islands
  - Biogeography: QH85
  - Botany: QK938.I84
  - Ecology: QH541.5.I8
  - Zoology: QL111
- Islands of Langerhans
  - Physiology: QP188.P26
- Isobars, Nuclear
  - Radioactive substances: QC795.8.N8
- Isobutyric acid
  - Animal biochemistry: QP752.I8
- Isodermidae: QL523.I83
- Isoelectric focusing
  - Animal biochemistry: QP519.9.I8
- Isoenzymes
  - Animal biochemistry: QP601.2
- Isoetaceae: QK524.I8
- Isoetales
  - Paleobotany: QE971
- Isolation
  - Heart physiology: QP114.I8
  - Virology: QR385.5
- Isolation perfusion
  - Biological research: QH324.9.I8
- Isomerases
  - Animal biochemistry: QP615+
- Isomerism
  - Physical chemistry: QD471
- Isometopidae: QL523.I85
- Isometric projection: QA505
- Isometries
  - Topology: QA611.29
- Isomorphism
  - Chemical crystallography: QD951
- Isonidae: QL638.I86



## INDEX

- Isopentenoids
    - Animal biochemistry: QP752.T47
    - Plant constituent: QK898.I76
  - Isopoda: QL444.M34
    - Paleozoology: QE817.I8
  - Isoprenoid compounds
    - Animal biochemistry: QP752.T47
  - Isoptera
    - Paleozoology: QE832.I8
    - Zoology: QL529+
  - Isoquinoline
    - Plant constituent: QK898.I78
  - Isostasy
    - Geodesy: QB331
    - Geology: QE511
  - Isotachophoresis
    - Animal biochemistry: QP519.9.I84
  - Isothermic curves: QA567.2.I84
  - Isotomidae: QL503.I8
  - Isotone shift
    - Nuclear interactions: QC794.6.I8
  - Isotope dilution analysis
    - Nuclear chemistry: QD608
  - Isotope geology: QE501.4.N9
  - Isotope shift
    - Nuclear interactions: QC794.6.I8
  - Isotopes
    - Animal biochemistry: QP519.9.I87
    - Physical chemistry: QD466.5
  - Isotopic exchange reactions
    - Organic chemistry: QD281.I7
  - Isotropy
    - Crystallography: QD941
  - Isozymes
    - Plant constituent: QK898.I8
  - Issidae: QL527.I8
  - Istiophoridae: QL638.I88
  - Isuridae: QL638.95.L3
  - Iterative methods
    - Numerical analysis: QA297.8
  - Ithonidae: QL513.I8
  - Iuridae: QL458.72.I95
  - Ixodidae: QL458.2.I9
- J
- J# (Computer program language): QA76.73.J2
  - Jabirus: QL696.C535
  - Jacamars: QL696.P54
  - Jacanas: QL696.C457
  - Jacanidae: QL696.C457
  - Jackals
    - Anecdotes and stories: QL795.J27
  - Jacks
    - Zoology: QL638.C25
  - Jacobsoniidae: QL596.J3
  - Jade
    - Mineralogy: QE394.J3
  - Jadeite: QE475.J27
  - Jaegers
    - Zoology: QL696.C46
  - Jaguars
    - Anecdotes and stories: QL795.J3
  - Janellidae: QL430.5.J3
  - Janthinidae: QL430.5.J36
  - Japanese umbrella pine: QK494.5.S35
  - Japygidae: QL503.4.J3
  - Jarosite
    - Mineralogy: QE391.J25
  - Jasper
    - Mineralogy: QE391.Q2
  - Jasperoid: QE475.J3
  - Jassidae: QL527.C49
  - Jaundice
    - Microbiology: QR201.L6
  - Java (Computer program language): QA76.73.J38
  - JavaScript
    - Computer program languages: QA76.73.J39
  - Jawfishes: QL638.O65
  - Jawless fishes: QL638.12+
  - Jaws
    - Regional anatomy: QM535
  - Jays
    - Zoology: QL696.P2367
  - Jellyfish: QL377.S4
  - Jenynsiidae: QL638.J4
  - Jerboas: QL737.R648
  - Jerusalem crickets
    - Zoology: QL508.S7
  - Jet
    - Mineralogy: QE394.J46
  - Jet stream
    - Wind: QC935
  - Jets
    - Astrophysics: QB466.J46
    - Differentiable manifolds
      - Topology: QA614.4
    - Fluid mechanics: QC158
  - Jets and cavities
    - Fluid dynamics: QA924
  - Jewel caterpillar moths: QL561.D25
  - Jibal Waqf as Sawwan Crater: QB756.J43
  - JMP (Computer file)
    - Mathematical statistics: QA276.45.J56
  - Job Control Language (Computer program language): QA76.73.J63
  - Joewood
    - Botany: QK495.T457
  - Joints
    - Geology: QE605
    - Human anatomy: QM131+
  - Joppeicidae: QL523.J6
  - Jordan algebras: QA252.5

## INDEX

Joubiniteuthidae: QL430.3.J68  
 Joule-Thomson effect  
   Thermodynamics: QC318.J6  
 JR (Computer program language): QA76.73.J7  
 Juglandaceae: QK495.J85  
 Julia (Computer program language): QA76.73.J85  
 Julianiaceae: QK495.J855  
 Julidae: QL449.65.J8  
 Juliidae: QL430.5.J8  
 Jump processes  
   Markov processes: QA274.755  
 Jumping  
   Physiology: QP310.J86  
 Jumping mice: QL737.R648  
 Jumping plant lice: QL527.P88  
 Jumping spiders: QL458.42.S24  
 Juncaceae: QK495.J87  
 Juncaginaceae: QK495.J875  
 Junctions  
   Semiconductor physics: QC611.6.J85  
 Jungermanniaceae: QK555.J9  
 Jungle ecology: QH541.5.J8  
 Jungles  
   Ecology: QH541.5.J8  
 Jupiter (Planet): QB661+  
   Perturbations: QB384  
   Satellites: QB404  
 Jurassic  
   Paleobotany: QE923  
   Paleontology: QE733  
   Stratigraphy: QE681+

## K

K-theory  
   Topology: QA612.33  
 Kagus: QL696.G878  
 Kainic acid  
   Animal biochemistry: QP563.K33  
 Kaleidoscopes  
   Optical instruments: QC373.K3  
 Kalium  
   Chemical element: Q1 .K1  
 Kallikrein  
   Animal biochemistry: QP609.K3  
 Kallymeniaceae: QK569.K3  
 Kalotermitidae: QL529.3.K35  
 Kames  
   Geology: QE578  
 Kangaroo rats: QL737.R66  
 Kangaroos  
   Anecdotes and stories: QL795.K3  
 Kaolinite  
   Mineralogy: QE391.K2  
 Kaons  
   Elementary particle physics: QC793.5.M42+  
 Karschiellidae: QL510.3.K3

Karschiidae: QL458.82.K3  
 Kasidoridae: QL638.K3  
 Katabatic winds  
   Meteorology: QC939.K37  
 Katydid  
   Zoology: QL508.T4  
 Kelp bed ecology: QH541.5.K4  
 Kelp beds  
   Ecology: QH541.5.K4  
 Kepler's equation: QB355.5  
 Kepler's laws: QB355.3  
 Keratin  
   Animal biochemistry: QP552.K4  
 Keratophyre: QE462.K44  
 Kermesidae: QL527.K4  
 Kernel functions  
   Analysis: QA353.K47  
   Mathematical physics: QC20.7.K47  
 Keroplatidae: QL537.K47  
 Kerr effect: QC673.5.K4  
 Kerridae: QL527.K44  
 Ketenes  
   Aliphatic compounds: QD305.K2  
 Ketones  
   Aliphatic compounds: QD305.K2  
   Animal biochemistry: QP801.K4  
   Aromatic compounds: QD341.K2  
 Keyboarding: QA76.9.K48  
 Keystone species  
   Ecology: QH541.15.K48  
 Kidneys  
   Anatomy: QL873  
   Human anatomy: QM404  
   Physiology: QP249  
 Killer cells  
   Immunology: QR185.8.K54  
 Killifishes: QL638.C96  
 Kimberlite  
   Petrology: QE462.K5  
 Kimchi  
   Microbiology: QR129.K56  
 Kin recognition  
   Animals: QL761.5  
 Kinase, Protein  
   Animal biochemistry: QP606.P76  
 Kindle Fire: QA76.8.K56  
 Kinematic geometry: QA623  
 Kinematics  
   Analytic mechanics: QA841+  
   Elementary particle physics: QC793.3.K5  
   Nuclear interactions: QC794.6.K5  
   Physics: QC135  
 Kinematics of fluids: QA913  
 Kinematics of vibrations: QC231  
 Kinesin  
   Animal biochemistry: QP552.K46

## INDEX

- Kinesiology
    - Physiology: QP303
  - Kinetic analysis
    - Analytical chemistry: QD98.K5
  - Kinetic theory of gases: QC175+
  - Kinetic theory of liquids: QC175.3+
  - Kinetics
    - Analytical chemistry: QD75.4.K54
    - Geochemistry: QE515.5.K55
    - Plasma physics: QC718.5.T5
  - Kinetoplastida: QL368.K5
  - Kingenidae
    - Paleozoology: QE797.K5
  - Kingfishers: QL696.C72
  - Kinglets: QL696.P27
  - Kinins
    - Animal biochemistry: QP552.K5
  - Kinnaridae: QL527.K5
  - Kinorhyncha: QL391.K5
  - Kinosternide: QL666.C55
  - Kitefin sharks: QL638.95.D3
  - Kites
    - Meteorology: QC879.3+
  - Kiwis
    - Zoology: QL696.A63
  - KK-theory
    - Topology: QA612.33
  - Klamath Mountains (Or. and Calif.): QH104.5.K55
  - Kloosterman sums: QA246.8.K58
  - Klystrons
    - Nuclear physics: QC787.K55
  - Knemidokoptidae: QL458.2.K5
  - Kneriidae: QL638.K5
  - Knot polynomials
    - Mathematical physics: QC20.7.K56
  - Knot theory
    - Atomic physics: QC174.52.K56
    - Topology: QA612.2+
  - Knowledge representation
    - Information theory: Q387+
  - Knowledge, Theory of
    - Philosophy of science: Q175.32.K45
  - Koalas
    - Anecdotes and stories: QL795.K62
    - Zoology: QL737.M384
  - Kodu (Computer program language): QA76.73.K63
  - Koebeliidae: QL527.K6
  - Kolmogorov complexity
    - Machine theory: QA267.7
  - Komatiite: QE462.K66
  - KornShell (Computer program language): QA76.73.K67
  - Korsogasteridae: QL638.K6
  - Kraemeriidae: QL638.K7
  - Kraken: QL89.2.K73
  - Krameriaceae: QK495.K7
  - Krypton
    - Chemical element: Q1 .K6
  - Kuhliidae: QL638.K8
  - Kuiper Belt: QB695
  - Kurinelli meteorite: QB756.K87
  - Kurtidae: QL638.K87
  - Kynurenic acid
    - Animal biochemistry: QP801.K8
  - Kynurenine
    - Animal biochemistry: QP563.K9
  - Kyphosidae: QL638.K9
- L
- Labidocarpidae: QL458.2.L3
  - Labiduridae: QL510.3.L33
  - Labiidae: QL510.3.L35
  - Laboratories
    - Botany: QK78+
    - Chemistry: QD51+
    - Computer science: QA76.35+
    - Electrochemistry: QD558+
    - Limnology: QH96.6+
    - Marine biology: QH91.6+
    - Nuclear chemistry: QD604.8+
    - Physiology: QP51+
    - Science teaching: Q183.A1+
    - Virology: QR380+
  - Laboratories, Computation
    - Mathematics: QA74
  - Laboratories, Science: Q180.56+
  - Laboratory equipment
    - Microbiology: QR71
  - Laboratory manuals
    - Animal behavior: QL751.7
    - Ecology: QH541.25
    - Experimental physiology: QP42
  - Laboueliales: QK623.L3
  - Labracoglossidae: QL638.L115
  - Labridae: QL638.L12
  - Labs on a chip
    - Chemical laboratories: QD54.L33
  - Labyrinthodontia
    - Paleozoology: QE868.L3
  - Labyrinths of the ear
    - Physiology: QP471+
  - Labyrinthulida: QL368.L3
  - Lac scales
    - Zoology: QL527.K44
  - Laccase
    - Plant constituent: QK898.L23
  - Lacciferidae: QL527.K44
  - Laccoliths
    - Geology: QE611+
  - Lacebugs: QL523.T5
  - Lacertidae: QL666.L255
  - Lacertilia: QL666.L2+
    - Paleozoology: QE862.L2
  - Lacewings: QL513.C5

## INDEX

- Lachnopladiaceae: QK629.L33
- Lacistemaceae: QK495.L152
- Lacrimal organs
  - Physiology: QP188.T4, QP231
- Lactalbumin
  - Animal biochemistry: QP552.L3
- Lactamases, Beta
  - Animal biochemistry: QP609.B46
- Lactariidae: QL638.L2
- Lactase
  - Animal biochemistry: QP609.G3
- Lactate dehydrogenase
  - Animal biochemistry: QP603.L33
- Lactic acid
  - Animal biochemistry: QP801.L3
- Lactobacillaceae: QR82.L3
- Lactoferrins
  - Animal biochemistry: QP552.L345
- Lactogenic hormones
  - Animal biochemistry: QP572.P74
- Lactoglobulin
  - Animal biochemistry: QP552.L35
- Lactoridaceae: QK495.L153
- Lactose
  - Animal biochemistry: QP702.L3
- Lady beetles: QL596.C65
- Ladyfishes: QL638.E4
- Laelapidae: QL458.2.L33
- Laemobothridae: QL540.3.L3
- Lagomorpha: QL737.L3+
  - Paleozoology: QE882.L3
- Lagoon ecology: QH541.5.L27
- Lagoons
  - Ecology: QH541.5.L27
- Lagrange's equations
  - Analytic mechanics: QA871
- Lagriidae: QL596.L23
- Lake ecology: QH541.5.L3
- Lakes
  - Ecology: QH541.5.L3
  - Freshwater biology: QH98
  - Zoology: QL146
- Lakeshore development
  - Effect on plants and animals: QH545.L35
- Lambda calculus: QA9.5
- Lamé functions (Ellipsoidal harmonics): QA409
- Lamellariidae: QL430.5.L2
- Lamellibranchia
  - Paleozoology: QE811+
  - Zoology: QL430.6+
- Lamellorthoceratidae
  - Paleozoology: QE807.L3
- Lametilidae: QL430.7.L35
- Lamiaceae: QK495.L25
- Lamiidae: QL596.L25
- Laminariaceae: QK569.L2
- Laminariales: QK569.L34
- Lamnidae: QL638.95.L3
- Lamniformes: QL638.94.L36
  - Paleozoology: QE852.L35
- Lamp shells
  - Zoology: QL395+
- Lampbrush chromosomes: QH600.6
- Lamponidae: QL458.42.L3
- Lampreys: QL638.2+
- Lampridae: QL638.L24
- Lampridiformes: QL637.9.L3
- Lamproite: QE462.L35
- Lamprosomatidae: QL596.L27
- Lampryidae: QL596.L28
- Lancetfishes: QL638.A34
- Land
  - Biogeography: QH84.8+
- Land breezes
  - Meteorology: QC939.L37
- Land reclamation
  - Effect on plants and animals: QH545.R38
- Land-water ecotones
  - Ecology: QH541.15.E27
- Landscape ecology
  - Ecology: QH541.15.L35
- Landscape protection: QH75+
- Landslides
  - Geology: QE599+
- Langerhans cells
  - Immunology: QR185.8.L35
- Langerhans, Islands of
  - Physiology: QP188.P26
- Language
  - Neurophysiology: QP399
  - Zoology: QL672.6
- Language, Scientific: Q226
- Languages, Programming
  - Digital computers: QA76.7+
- Languriidae: QL596.L29
- Laniidae: QL696.P248
- Lantern sharks: QL638.95.E85
- Lanternfishes: QL638.M9
- Lanthanotidae: QL666.L2556
- Lanthanum
  - Chemical element: Q1 .L2
- Lapis lazuli
  - Mineralogy: QE394.L37
- Laplace functions (Spherical harmonics): QA406
- Laplace transformation: QA432
- Lardizabalaceae: QK495.L32
- Large astronomical telescopes: QB90
- Large lemurs
  - Zoology: QL737.P95
- Large scale structure
  - Cosmology: QB991.L37
- Laridae: QL696.C46
- Larks
  - Zoology: QL696.P214

## INDEX

- Larridae: QL568.L3
- Larvae
  - Fishes: QL639.25
  - Invertebrates: QL364.18
- Larvaevoridae: QL537.T28
- Larynx
  - Anatomy: QL853
  - Human anatomy: QM255
  - Physiology: QP306
- Laser beam propagation
  - Meteorological optics: QC976.L36
- Laser electrochemistry: QD555.6.L37
- Laser fusion: QC791.775.L37
- Laser interferometry
  - Optical measurements: QC367.3.L37
- Laser manipulation: QC689.5.L35
- Laser photochemistry: QD716.L37
- Laser physics: QC685+
- Laser-produced plasmas
  - Plasma physics: QC718.5.L3
- Laser pulses: QC689.5.L37
- Laser spectroscopy
  - Analytical biochemistry: QP519.9.L37
  - Analytical chemistry: QD96.L3
  - Physics: QC454.L3
- Laser techniques
  - Chemistry: QD63.L3
- Laser velocimetry
  - Optical measurements: QC367.3.L38
- Lasers
  - Biological research: QH324.9.L37
  - Cytology: QH585.5.L37
  - Physiological effect: QP82.2.L3
- Lasiocampidae: QL561.L3
- Latent structure analysis
  - Mathematical statistics: QA278.6
- Laterite
  - Petrology: QE495
- Latex
  - Effect on plants: QK753.L37
  - Plant constituent: QK898.L3
- Lathridiidae: QL596.L3
- Latimeriidae: QL638.L26
- Latiniidae: QL505.7.L3
- Latite: QE462.L37
- Latitude
  - Astronomy: QB224.5+
- Latridae: QL638.L28
- Lattice dynamics
  - Solid state physics: QC176.8.L3
- Lattice theory
  - Algebra: QA171.5
  - Computer science: QA76.9.L38
  - Statistical physics: QC174.85.L38
- Lauraceae: QK495.L375
- Laurel
  - Botany: QK495.L375
- Lauxaniidae: QL537.L3
- Lava flows: QE527.73
- Lawrencium
  - Chemical element: Q1 .L9
- Laws of cooling
  - Physics: QC331+
- Laws of nature
  - Philosophy of science: Q175.32.P39
- Lawsonite
  - Mineralogy: QE391.L28
- Lazurite
  - Mineralogy: QE391.L3
- Lead
  - Chemical element: Q1 .P3
  - Effect on plants and animals: QH545.L4
- Lead chalcogenides
  - Semiconductor physics: QC611.8.L4
- Lead ores
  - Mineralogy: QE390.2.L43
- Leadwort: QK495.P725
- Leaf
  - Plant anatomy: QK649
- Leaf beetles: QL596.C5
- Leaf-cutting bees: QL568.M4
- Leaf-roller moths: QL561.T8
- Leaf-skeletonizer moths: QL561.Z9
- Leafbirds: QL696.P2344
- Leafblotch miners: QL561.G7
- Leafhoppers
  - Zoology: QL527.C49
- Leafminerflies: QL537.A4
- Learning
  - Animals: QL785+
  - Neurophysiology: QP408
- Least action
  - Analytic mechanics: QA871
- Least squares
  - Mathematics: QA275
- Leatherback turtle: QL666.C546
- Leatherwood
  - Botany: QK495.C9973
- Leaves
  - Plant anatomy: QK649
- Lebesgue integrals: QA312+
- Lebiasinidae: QL638.L3
- Lecanoraceae: QK585.L37
- Lecidiaceae: QK585.L4
- Lecithin
  - Animal biochemistry: QP752.L4
- Lecithinase
  - Animal biochemistry: QP609.L43
- Lecithoceridae: QL561.L37
- Lectins
  - Animal biochemistry: QP552.L42
  - Plant constituent: QK898.L42
- Lecythidaceae: QK495.L42
- Ledidae: QL430.7.L4

## INDEX

- Ledridae: QL527.L44
- Leeaceae: QK495.L46
- Leek: QK495.A42
- Leeuwenhoeekiidae: QL458.2.L44
- Lefteye flounders: QL638.B65
- Leg
  - Regional anatomy: QM549
- Legendre functions (Spherical harmonics): QA406
- Legionnaires' disease
  - Microbiology: QR201.L44
- Legumes: QK495.L52
- Leiobunidae: QL458.52.L44
- Leioderidae: QL449.65.L4
- Leiodidae: QL596.L35
- Leiognathidae: QL638.L35
- Leiopelmatidae: QL668.E255
- Leitneriaceae: QK495.L524
- Lejeuneaceae: QK555.L37
- Lemaneaceae: QK569.L5
- Lemmings: QL737.R666
- Lemnaceae: QK495.L527
- Lemoniidae: QL561.L4
- Lemuridae: QL737.P95
- Lemurs, Large
  - Zoology: QL737.P95
- Length measurement: QC101+
- Length standards: QC101
- Length/weight relationships
  - Fishes: QL639.15
- Lennoaceae: QK495.L528
- Lens and mirror systems: QC385+
- Lens of the eye
  - Neurophysiology: QP478
- Lenses, Gravitational: QB857.5.G7
- Lentibulariaceae: QK495.L53
- Lentulidae: QL508.L45
- Leopards
  - Anecdotes and stories: QL795.L5
- Leotiaceae: QK623.L39
- Leotichidae: QL523.L45
- Lepetidae: QL430.5.L33
- Lepidodendrales
  - Paleobotany: QE971
- Lepidoptera
  - Paleozoology: QE832.L5
  - Zoology: QL541+
- Lepidosirenidae: QL638.L37
- Lepidoziaceae: QK555.L4
- Lepismatidae: QL503.8.L4
- Lepisosteidae: QL638.L4
- Leprosy
  - Microbiology: QR201.L5
- Leptin
  - Animal biochemistry: QP572.L48
- Leptinidae: QL596.L4
- Leptoceridae: QL518.L48
- Leptodactylidae: QL668.E257
- Leptodiridae: QL596.L43
- Leptofoenidae: QL568.L47
- Leptolepiformes
  - Paleozoology: QE852.L45
- Leptomitales: QK621.L44
- Leptonacea
  - Paleozoology: QE812.V45
- Leptonetidae: QL458.42.L4
- Leptons
  - Elementary particle physics: QC793.5.L42+
- Leptoperlidae: QL530.3.L47
- Leptophlebiidae: QL505.3.L4
- Leptopodidae: QL523.L46
- Leptoscopidae: QL638.L47
- Leptosomatidae: QL696.C74
- Leptospirosis
  - Microbiology: QR201.L6
- Leptostraca: QL444.M347
  - Paleozoology: QE817.L5
- Leptostromataceae: QK625.L4
- Leptotyphlopidae: QL666.O65
- Lernaepodoida: QL444.C75
- Lesser apes: QL737.P943
- Lessoniaceae: QK569.L53
- Lestidae: QL520.3.L45
- Lestoideidae: QL520.3.L46
- Lethal factors
  - Genetic mutation: QH463.5
- Lethrinidae: QL638.L48
- Leucine
  - Animal biochemistry: QP562.L4
- Leucite
  - Mineralogy: QE391.L4
- Leucitite: QE462.L48
- Leucocyte adherence inhibition test: QR187.L47
- Leucocytes
  - Immunology: QR185.8.L48
  - Physiology: QP95+
- Leucomaines
  - Animal biochemistry: QP801.P7
- Leucospididae: QL568.L49
- Leucotrichaceae: QR82.L4
- Leucoxene
  - Mineralogy: QE396
- Leuctridae: QL530.3.L49
- Leukemia
  - Microbiology: QR201.L64
- Leukolysins
  - Immunology: QR185.8.L49
- Leukotrienes
  - Animal biochemistry: QP801.L47
- Level-crossing spectroscopy
  - Physics: QC454.L58
- Levels
  - Astronomical instruments: QB115
- Lexell comet: QB723.L6
- Libellulidae: QL520.3.L6

## INDEX

- Libration of the moon: QB585
- Libytheidae: QL561.L5
- Lichen-forming fungi: QK604.2.L53
- Lichenicolous fungi: QK604.2.L54
- Lichenology: QK580.7+
- Lichens: QK580.7+
- Lichinaceae: QK585.L53
- Lie-admissible algebras
  - Mathematical physics: QC20.7.L54
- Lie algebras: QA252.3
  - Elementary particle physics: QC793.3.L53
  - Mathematical physics: QC20.7.L54
  - Physical chemistry: QD455.3.L53
- Lie groups
  - Analysis: QA387
- Lie superalgebras: QA252.3
- Liebigite
  - Mineralogy: QE391.L5
- Life
  - Biology (General): QH501+
- Life, Elixer of
  - Alchemy: QD26.5.E4
- Life, Origins of
  - Biology: QH325
- Life, Prolongation of
  - Developmental physiology: QP85
- Life sciences literature: QH303.6
- Life spans
  - Reptiles and amphibians: QL669.25
- Lifetime
  - Elementary particle physics: QC793.3.D4
- Ligaments
  - Anatomy: QL827
  - Human anatomy: QM141
- Ligand binding
  - Animal biochemistry: QP517.L54
- Ligand exchange chromatography
  - Analytical chemistry: QD79.C4537
- Ligases
  - Animal biochemistry: QP618+
- Light
  - Bacterial physiology: QR97.L5
  - Effect on cells: QH651
  - Effect on plants: QK757
  - Physics: QC350+
  - Physiological effect: QP82.2.L5
- Light-beating spectroscopy
  - Physics: QC454.L63
- Light discrimination
  - Physiology: QP481+
- Light filters
  - Optical instruments: QC373.L5
- Light perception
  - Physiology: QP481+
- Light pollution
  - Astronomy: QB51.3.L53
- Light production
  - Cells: QH641
  - Microbiology: QR95
  - Plant physiology: QK844
- Light, Velocity of: QC407
- Lightfishes: QL638.G8
- Lighting, Exterior
  - Effect on plants and animals: QH545.E98
- Lightning
  - Meteorology: QC966+
- Lightwood
  - Botany: QK495.C965
- Lignans
  - Animal biochemistry: QP801.L53
- Lignin
  - Plant constituent: QK898.L5
- Liliaceae: QK495.L72
- Lily
  - Botany: QK495.L72
- Limacidae: QL430.5.L4
- Limacodidae: QL561.L54
- Limbic system
  - Anatomy: QL938.L55
  - Neurophysiology: QP383.2
- Limbs
  - Anatomy: QL950.7+
  - Regional anatomy: QM548+
- Limbs, Lower
  - Regional anatomy: QM549
- Limbs, Muscles of
  - Human anatomy: QM165
- Limbs, Upper
  - Regional anatomy: QM548
- Limestone
  - Petrology: QE471.15.L5
- Limestone ecology: QK938.L5
- Limicolae: QL696.C4+
- Limidae: QL430.7.L5
- Limit theorems
  - Probabilities: QA273.67
- Limits of hearing
  - Physiology: QP463
- Limnaeidae: QL430.5.L85
- Limnanthaceae: QK495.L73
- Limnephilidae: QL518.L5
- Limnichidae: QL596.L55
- Limnichthyidae: QL638.L5
- Limnocharidae: QL458.2.L54
- Limnology
  - Aquatic biology: QH96+
- Limoniidae: QL537.L5
- Limonoids
  - Plant constituent: QK898.L54
- Limpkins: QL696.G82
- Limulodidae: QL596.L58
- Linaceae: QK495.L74

## INDEX

- Linden
  - Botany: QK495.T5
- Line geometry: QA608
- Linear accelerators
  - Nuclear physics: QC787.L5
- Linear algebra: QA184+
- Linear algebraic groups: QA179
- Linear colliders
  - Nuclear physics: QC787.L53
- Linear congruences
  - Number theory: QA242
- Linear dependence: QA187
- Linear operators
  - Functional analysis: QA329.2
- Linear topological spaces: QA322
- Linear transport theory
  - Statistical physics: QC175.25.L5
- Linguatulida: QL447.3
- Lingulidae: QL395.8.L7
  - Paleozoology: QE797.L7
- Link theory
  - Topology: QA612.2+
- Linkage
  - Genetics: QH445.2+
- Linnaean system: QK92
- Linnaeus: QH44
  - Works
    - Botany: QK91
    - Natural history: QH43+
- Linoleic acids
  - Animal biochemistry: QP752.L5
- Linolenic acids
  - Animal biochemistry: QP752.L515
- Linophryniidae: QL638.L55
- Linux
  - Computer software
    - Operating systems: QA76.774.L46
- Linyphiidae: QL458.42.L55
- Liocranidae: QL458.42.L555
- Lions
  - Anecdotes and stories: QL795.L7
- Liopteridae: QL568.L56
- Liparidae: QL638.C9
- Liparoceratidae
  - Paleozoology: QE807.L7
- Lipase
  - Animal biochemistry: QP609.L5
- Liphistiidae: QL458.42.L56
- Lipid membranes
  - Cytology: QH602
- Lipids
  - Animal biochemistry: QP751+
  - Blood constituents: QP99.3.L5
  - Microbial metabolism: QR92.L5
  - Plant constituent: QK898.L56
- Lipocaic
  - Animal biochemistry: QP572.L5
- Lipocortins
  - Animal biochemistry: QP552.L48
- Lipofuscins
  - Animal biochemistry: QP671.L52
- Lipogenidae: QL638.L57
- Lipoic acid
  - Animal biochemistry: QP772.T54
- Lipolytic enzymes
  - Animal biochemistry: QP609.L55
- Lipoproteins
  - Animal biochemistry: QP552.L5
  - Blood constituents: QP99.3.L52
- Lipoproteins, High density
  - Blood constituents: QP99.3.H53
- Lipoproteins, Low density
  - Blood constituents: QP99.3.L68
- Liposomes
  - Cytology: QH602
- Lipotidae: QL737.C436
- Lipotropin
  - Animal biochemistry: QP572.L56
- Lipoxins
  - Animal biochemistry: QP752.L52
- Lipoxygenases
  - Animal biochemistry: QP603.L56
- Liquid chromatography
  - Analytical chemistry: QD79.C454
  - Animal biochemistry: QP519.9.L55
  - Biological research: QH324.9.L5
  - Organic chemistry: QD272.C447
  - Quantitative analysis: QD117.C517
- Liquid chromatography, Capillary
  - Animal biochemistry: QP519.9.C37
- Liquid crystals
  - Atomic physics: QC173.4.L55
  - Crystallography: QD923
- Liquid dielectrics: QC585.8.L56
- Liquid-liquid interfaces
  - Surface chemistry: QD509.L54
- Liquid metals
  - Atomic physics: QC173.4.L56
- Liquid scintillation counting
  - Biological research: QH324.9.L53
- Liquid-solid interfaces
  - Surface chemistry: QD509.S65
- Liquid thermometers: QC272
- Liquids
  - Semiconductor physics: QC611.8.L5
- Liriopeidae: QL537.P89
- LISP (Computer program language): QA76.73.L23
- Lissocarpaceae: QK495.L76
- Listeriosis
  - Microbiology: QR201.L7
- Listrophoridae: QL458.2.L58
- Listwanite: QE475.L57
- Literature
  - Mathematics teaching aid: QA19.L58



## INDEX

- Literature, Mathematical: QA41.7
- Literature, Scientific: Q225.5
- Lithium
  - Chemical element: Q1 .L5
- Lithium ores
  - Mineralogy: QE390.2.L57
- Lithobiidae: QL449.55.L5
- Lithodermataceae: QK569.L56
- Lithosiidae: QL561.A8
- Littorinidae: QL430.5.L58
- Littorinimorpha
  - Paleozoology: QE809.L57
- Livebearers: QL638.P73
- Liver
  - Anatomy: QL867
  - Human anatomy: QM351
  - Immunology: QR185.9.L58
  - Physiology: QP185
- Liverworts
  - Botany: QK551+
  - Paleobotany: QE959
- Liviidae: QL523.L58
- Living fossils
  - Zoology: QL88.5
- Living matter
  - Comparison with nonliving: QH343
- Lizardfishes: QL638.S96
- Lizards
  - Zoology: QL666.L2+
- Lizard's-tail
  - Botany: QK495.S27
- Llano ecology: QH541.5.L53
- Llanos
  - Ecology: QH541.5.L53
- Loaches: QL638.C647
- Loasaceae: QK495.L78
- Lobariaceae: QK585.L63
- Lobata: QL380.5.T45
- Lobosa: QL368.L62
- Lobotidae: QL638.L6
- Lobsters
  - Zoology: QL444.M33
- Local Group (Galaxies): QB858.8.L63
- Local rings
  - Algebra: QA251.38
- Localization of functions
  - Cerebral neurophysiology: QP385+
- Localization of sound
  - Neurophysiology: QP469
- Location problems
  - Mathematical optimization: QA402.6
- Loch Ness monsters: QL89.2.L6
- Locomotion
  - Fishes: QL639.4
- Locusts
  - Zoology: QL506+
- Loess
  - Geology: QE579
- Loganiaceae: QK495.L785
- Logarithmic functions
  - Analysis: QA342
- Logarithms: QA55+
- Logging
  - Effect on plants and animals: QH545.L63
- Logic
  - Philosophy of science: Q175.32.R45
  - Plane geometry: QA481
- Logic, Computer: QA76.9.L63
- Logic, Mathematical: QA8.9+
- Logic programming
  - Digital computers: QA76.63
- LogiQL (Computer program language): QA76.73.L62
- LOGO (Computer program language): QA76.73.L63
- Loliginidae: QL430.3.L8
- Lomariopsidaceae: QK524.L64
- Lonchaeidae: QL537.L6
- Lonchopteridae: QL537.L63
- Long-legged flies: QL537.D6
- Long-range weather forecasting: QC997
- Long-tailed tits: QL696.P2135
- Longevity
  - Biology: QH528.5
  - Developmental physiology: QP85
  - Reptiles and amphibians: QL669.25
- Longhorn grasshoppers
  - Zoology: QL508.T4
- Longitude
  - Astronomy: QB224.5+
- Loons
  - Zoology: QL696.G33
- Loop spaces
  - Topology: QA612.76
- Lophiidae: QL638.L75
- Lophiiformes: QL637.9.L6
- Lophiostomaceae: QK623.L6
- Lophocoleaceae: QK555.L58
- Lophopidae: QL527.L6
- Lophopoda: QL398.L6
- Lophotidae: QL638.L77
- Lophoziaaceae: QK555.L6
- Lopseed
  - Botany: QK495.P453
- Loranthaceae: QK495.L87
- Lordalycidae: QL458.2.L67
- Lorentz transformations
  - Atomic physics: QC174.52.L6
- Loricariidae: QL638.L785
- Loricifera: QL391.L67
- Lorises: QL737.P955
- Lorisidae: QL737.P955
- Loss
  - Dielectrics: QC585.7.L6
- Losses, Optical: QC397.5.O77

## INDEX

- LotusScript (Computer program language): QA76.73.L66
- Louseflies: QL537.H57
- Louvars: QL638.L95
- Low density lipoproteins
  - Blood constituents: QP99.3.L68
- Low-dimensional semiconductors
  - Semiconductor physics: QC611.8.L68
- Low-dimensional topology: QA612.14+
- Low-energy nuclear reactions: QC794.8.L69
- Low pressure chemistry: QD538
- Low-pressure plasmas
  - Plasma physics: QC718.5.L58
- Low pressure systems
  - Meteorology: QC880.4.L68
- Low temperature
  - Plasma physics: QC718.5.L6
- Low temperature chemistry: QD515
- Low temperature research
  - Thermochemistry: QD536
- Low temperatures
  - Physics: QC277.9+
- Lower Cretaceous
  - Stratigraphy: QE686
- Lower extremities
  - Physiology: QP335+
- Lower Jurassic
  - Stratigraphy: QE682
- Lower Triassic
  - Stratigraphy: QE677
- Lowiaceae: QK495.L88
- Loxocemidae: QL666.O66
- Loxoscelidae: QL458.42.L6
- Loxosomatidae: QL400.5.L6
- Lua (Computer program language): QA76.73.L82
- Lubber grasshoppers
  - Zoology: QL508.R65
- Lucanidae: QL596.L8
- Lucinidae: QL430.7.L8
- Luciocephalidae: QL638.L8
- Ludwigite
  - Mineralogy: QE391.L8
- Luminescence
  - Auroras: QC972.L8
  - Plant physiology: QK844
  - Radiation physics: QC476.4+
- Luminescence immunoassay
  - Animal biochemistry: QP519.9.L82
- Luminescence spectroscopy
  - Analytical chemistry: QD96.L85
  - Animal biochemistry: QP519.9.L84
  - Physics: QC476.6
- Luminescent materials
  - Radiation physics: QC476.7+
- Luminosity
  - Auroras: QC972.L85
- Luminous blue variables: QB843.L85
- Lumpsuckers: QL638.C9
- Lunar eclipses: QB579
- Lunar geology: QB592
- Lunar meteorology: QB591
- Lunar petrology: QB592
- Lunar radiation: QB588
- Lunar theory
  - Theoretical astronomy: QB391+
- Lungless salamanders: QL668.C274
- Lungs
  - Anatomy: QL848
  - Human anatomy: QM261
  - Microbiology: QR171.L8
- Luteinizing hormone
  - Animal biochemistry: QP572.L84
- Luteinizing hormone releasing hormone
  - Animal biochemistry: QP572.L85
- Luteoviridae
  - Virology: QR401.5
- Luteoviruses
  - Virology: QR401.5
- Luutetium
  - Chemical element: Q1 .L8
- Lutjanidae: QL638.L9
- Luvaridae: QL638.L95
- Lyases
  - Animal biochemistry: QP612+
- Lycaenidae: QL561.L8
- Lycidae: QL596.L9
- Lycopene
  - Plant constituent: QK898.L9
- Lycoperdaceae: QK629.L9
- Lycoperdales: QK629.L92
- Lycopodiaceae: QK524.L9
- Lycopodiales
  - Paleobotany: QE971
- Lycopsida
  - Paleobotany: QE971
- Lycoriidae: QL537.S357
- Lycosidae: QL458.42.L9
- Lyctidae: QL596.L92
- Lygaeidae: QL523.L9
- Lygistorrhinidae: QL537.L9
- Lymantriidae: QL561.L9
- Lyme disease
  - Microbiology: QR201.L88
- Lymexylidae: QL596.L94
- Lymnaeidae: QL430.5.L85
- Lymph
  - Physiology: QP115
- Lymphatic system
  - Physiology: QP115
- Lymphatics
  - Anatomy: QL841
  - Heart physiology: QP114.L94
  - Human anatomy: QM197
  - Human histology: QM570.7

## INDEX

- Lymphoblastoid cell lines
    - Cytology: QH585.457
  - Lymphocytes
    - Immunology: QR185.8.L9
    - Physiology: QP95.5
  - Lymphocytic choriomeningitis
    - Microbiology: QR201.L9
  - Lymphokines
    - Immunology: QR185.8.L93
  - Lynxes
    - Anecdotes and stories: QL795.L9
  - Lyonetiidae: QL561.L95
  - Lyophilization
    - Human histology: QM556.5.L9
  - Lyrebirds: QL696.P2495
  - Lysergic acid diethylamide
    - Animal biochemistry: QP801.L97
  - Lysine
    - Animal biochemistry: QP562.L8
  - Lysiopetalidae: QL449.65.L9
  - Lysogeny
    - Virology: QR474
  - Lysolecithin
    - Animal biochemistry: QP752.L8
  - Lysophospholipids
    - Animal biochemistry: QP752.L83
  - Lysosomes
    - Cytology: QH603.L9
  - Lysozyme
    - Animal biochemistry: QP609.L9
    - Immunology: QR186.6.L94
  - Lysyl ribonucleic acid synthetase
    - Animal biochemistry: QP619.L9
  - Lythraceae: QK495.L9
  - Lytoceratidae
    - Paleozoology: QE807.L98
- M
- M (Computer program language): QA76.73.M15
  - M stars: QB843.M16
  - M87 (Galaxy)
    - Radio astronomy: QB479.55.M18
  - Mac OS
    - Computer software
      - Operating systems: QA76.774.M33
  - MacBook: QA76.8.M3
  - Machaerotidae: QL527.M3
  - Machilidae: QL503.7.M32
  - Machine learning: Q325.5+
  - Machine theory
    - Algebra: QA267+
  - Machines, Mathematical: QA71+
  - Mach's principle: QC137
  - Macintosh computers: QA76.8.M3
  - Macintosh OS
    - Computer software
      - Operating systems: QA76.774.M33
  - Mackerel
    - Zoology: QL638.S35
  - Mackerel sharks: QL638.95.L3
  - Macluritidae
    - Paleozoology: QE809.M25
  - Macristiidae: QL638.M13
  - Macrocephenchelyidae: QL638.M16
  - Macroceridae: QL537.M3
  - Macroclimatology: QC981.7.M3
  - Macrocyclic compounds
    - Organic chemistry: QD399+
  - Macroecology
    - Ecology: QH541.15.M23
  - Macroevolution
    - Biology: QH371.5
  - Macroglobulins, Alpha
    - Blood constituents: QP99.3.A45
  - Macromolecules
    - Animal biochemistry: QP801.P64
    - Organic chemistry: QD380+
    - Virology: QR372.M32
  - Macronyssidae: QL458.2.M3
  - Macrophage migration inhibitory factor
    - Immunology: QR185.8.M28
  - Macrophages
    - Immunology: QR185.8.M3
  - Macropsidae: QL527.M32
  - Macrorhamphosidae: QL638.M165
  - Macroscelidea: QL737.M24+
    - Paleozoology: QE882.M25
  - Macroscelidide: QL737.M242
  - Macrouridae: QL638.M2
  - Macroveliidae: QL523.M3
  - Macrurocyttidae: QL638.M22
  - Mactridae: QL430.7.M3
    - Paleozoology: QE812.M2
  - Madder
    - Botany: QK495.R85
  - Madeira vine
    - Botany: QK495.B256
  - Magellanic Clouds: QB858.5.M33
  - Magic cubes
    - Algebra: QA165
  - Magic labelings
    - Algebra: QA166.197
  - Magic squares
    - Algebra: QA165
  - Magic tricks
    - Mathematics teaching aid: QA20.M33
  - Magnesite
    - Mineralogy: QE391.M2
  - Magnesium
    - Chemical element: Q1 .M4
    - Effect on plants: QK753.M27

## INDEX

- Magnesium alloys
  - Analytical chemistry: QD137.M3
- Magnesium electrodes: QD572.M34
- Magnesium group
  - Inorganic chemistry: QD172.M4
- Magnetic alloys
  - Magnetic materials: QC766.M34
- Magnetic analyzers
  - Nuclear physics: QC787.M3
- Magnetic compass deviation: QC849
- Magnetic dipole moment
  - Elementary particle physics: QC793.3.S6
- Magnetic disturbances
  - Geomagnetism: QC835
- Magnetic field generation
  - Physiology: QP345
- Magnetic fields: QB817.5
  - Effect on cells: QH656
  - Elementary particle physics: QC793.3.M3
  - Galaxies: QB857.5.M34
  - Geophysics: QC809.M25
  - Physics: QC754.2.M3
  - Planets: QB603.M26
  - Plasma physics: QC718.5.M3
- Magnetic fields, Interstellar: QB791.7
- Magnetic fields, Solar: QB539.M23
- Magnetic fluids: QC766.M36
- Magnetic force: QC754.2.M32
- Magnetic induction: QC754.2.M33
- Magnetic ions: QC754.2.M333
- Magnetic materials
  - Physics: QC764.5+
- Magnetic measurements: QC755.6+
- Magnetic monopoles: QC760.4.M33
- Magnetic observations
  - Geomagnetism: QC830+
- Magnetic properties
  - Condensed matter physics: QC173.458.M33
  - Crystals: QD940
  - Dielectrics: QC585.7.M3
  - Liquids: QC145.4.M27
  - Petrology: QE431.6.M3
  - Solid state physics: QC176.8.M3
  - Superconductors: QC611.97.M34
  - Thin films: QC176.84.M3
- Magnetic resonance
  - Biological research: QH324.9.M28
- Magnetic resonance imaging
  - Nuclear magnetism: QC762.6.M34
- Magnetic stars: QB843.M3
- Magnetic storms
  - Geomagnetism: QC835
- Magnetic structure: QC754.2.M336
- Magnetic substances
  - Semiconductor physics: QC611.8.M25
- Magnetic superconductors: QC611.98.M34
- Magnetic surveys
  - Geomagnetism: QC825+
- Magnetism: QC750+
  - Bacterial physiology: QR97.M34
  - Physiological effect: QP82.2.M3
- Magnetism of aircraft: QC849
- Magnetism of ships: QC849
- Magnetite
  - Mineralogy: QE391.M22
- Magnetization: QC754.2.M34
- Magnetocardiography: QP112.5.M33
- Magnetochemistry: QD591
- Magnetofluid dynamics
  - Analytic mechanics: QA920
- Magneto hydrodynamics
  - Analytic mechanics: QA920
  - Geophysics: QC809.M3
- Magnetometer
  - Geomagnetism: QC819
- Magneto optics: QC675+
- Magnetopause
  - Geophysics: QC809.M35
- Magnetoreceptors: QP447.7
- Magnetoresistance: QC610.7
- Magnetosphere
  - Geophysics: QC809.M35
- Magnetospheric radio waves
  - Radio meteorology: QC973.4.M33
- Magnetostatics: QC754.2.M35
- Magnetostriction: QC754.2.M36
- Magnetron sputtering
  - Solid state physics: QC176.8.M34
- Magnets: QC756.7+
- Magnifying glasses
  - Optical instruments: QC373.M33
- Magnitudes
  - Stars: QB815
  - Variable stars: QB836
- Magnolia
  - Botany: QK495.M24
- Magnoliaceae: QK495.M24
- Magnoliophyta
  - Paleobotany: QE980+
- Magnons
  - Elementary particle physics: QC793.5.M32+
- Magpie larks: QL696.P2468
- Magpies
  - Zoology: QL696.P2367
- Mahogany
  - Botany: QK495.M52
- Maintenance, Software: QA76.76.S64
- Major histocompatibility complex: QR184.315
- Malachiidae: QL596.M2
- Malachite
  - Mineralogy: QE391.M25
- Malacosteidae: QL638.M24
- Malacostraca: QL444.M3+

## INDEX

- Malacostraca
  - Paleozoology: QE817.M3
- Malapteruridae: QL638.M246
- Malaria
  - Microbiology: QR201.M3
- Malaria vaccines: QR189.5.M34
- Malate dehydrogenase
  - Plant constituent: QK898.M25
- Male generative organs
  - Human anatomy: QM416
- Male organs, Accessory: QP257
- Male reproductive organs
  - Anatomy: QL878
- Male sex physiology: QP253+
- Malesherbiaceae: QK495.M245
- Malignant edema
  - Microbiology: QR201.E2
- Mallomonadaceae: QK569.M27
- Mallophaga
  - Paleozoology: QE832.M34
  - Zoology: QL540+
- Mallow
  - Botany: QK495.M27
- Malonic acid
  - Plant constituent: QK898.M28
- Malpighiaceae: QK495.M26
- Maluridae: QL696.P2485
- Malvaceae: QK495.M27
- Mammae
  - Anatomy: QL944
  - Human anatomy: QM495
- Mammalogical literature: QL702
- Mammals
  - Paleozoology: QE881+
  - Zoology: QL700+
- Mammary glands
  - Physiology: QP188.M3
- Man in geology: QE625
- Management
  - Computer science: QA76.9.M3
- Manakins: QL696.P263
- Manatees
  - Zoology: QL737.S63
- Mandibulata
  - Paleozoology: QE816+
- Manganese
  - Chemical element: Q1 .M6
  - Effect on plants: QK753.M3
  - Effect on plants and animals: QH545.M3
  - Plant constituent: QK898.M3
- Manganese enzymes
  - Animal biochemistry: QP601.75.M35
- Manganese ores
  - Mineralogy: QE390.2.M35
- Manglicolaceae: QK623.M36
- Mangrove
  - Botany: QK495.R46
- Mangrove forests
  - Botany: QK938.M27
- Mangrove swamps
  - Botany: QK938.M27
  - Ecology: QH541.5.M27
- Manidae: QL737.P5
- Manifolds
  - Analysis: QA614+
  - Mathematical physics: QC20.7.M24
  - Topology: QA613+
- Manikins
  - Human anatomy: QM33
- Manipulatives
  - Mathematics teaching aid: QA19.M34
- Mannosides
  - Organic chemistry: QD325
- Manometers: QC165
- Manometry
  - Biological research: QH324.9.M3
- Manotidae: QL537.M35
- Manpower requirements
  - Science: Q148
- Manta rays: QL638.85.M6
- Mantellidae: QL668.E259
- Mantidae: QL505.9.M35
- Mantidflies: QL513.M3
- Mantids
  - Zoology: QL505.9.M35
- Mantispidae: QL513.M3
- Mantle
  - Earth interior: QE509.4
- Mantodea
  - Zoology: QL505.83+
- Manure
  - Microbiology: QR171.F4
- Many-body methods
  - Quantum chemistry: QD462.6.M36
- Many body problem
  - Theoretical astronomy: QB362.M3
- Many-valley semiconductors
  - Semiconductor physics: QC611.8.M27
- Many-valued logic
  - Mathematical logic: QA9.45
- Map-coloring problem
  - Topology: QA612.18
- Maple
  - Botany: QK495.A17
- Mapping
  - Ecology: QH541.15.M26
  - Geomagnetism: QC822
- Mapping of regions
  - Mathematics: QA360
- Maps
  - Geomagnetism: QC822
- Maps of the moon
  - Descriptive astronomy: QB595

## INDEX

- Maps of the planets
  - Descriptive astronomy: QB605
- Marantaceae: QK495.M28
- Marattiaceae: QK524.M3
- Marble
  - Petrology: QE475.M3
- Marcasite
  - Mineralogy: QE391.M3
- Marchantiaceae: QK555.M2
- Marchflies: QL537.B5
- Mare's tail
  - Botany: QK495.H67
- Margaritiferidae: QL430.7.M37
- Margarodidae: QL527.M37
- Marginellidae: QL430.5.M3
- Mariculture
  - Effect on plants and animals: QH545.M34
- Marijuana
  - Animal biochemistry: QP801.C27
- Marine animals
  - Paleozoology: QE766
- Marine aquariums: QL78.5
- Marine biological laboratories: QH91.6+
- Marine biology: QH91+
- Marine biology as a profession: QH91.45
- Marine birds
  - Zoology: QL678.52+
- Marine borers
  - Marine biology: QH91.8.M3
- Marine ecology: QH541.5.S3
- Marine eutrophication: QH91.8.E87
- Marine fishes
  - Zoology: QL620+
- Marine fouling organisms
  - Marine biology: QH91.8.M3
- Marine fungi: QK618
- Marine insects
  - Zoology: QL472.3
- Marine meteorological services: QC875.A2+
- Marine microbiology: QR106+
- Marine parks and reserves: QH91.75.A1+
- Marine phytoplankton: QK934
- Marine plants: QK931
- Marine pollution
  - Effect on plants and animals: QH545.W3
- Marine productivity
  - Marine biology: QH91.8.M34
- Marine products
  - Nutrition: QP144.F56
- Marine radioecology
  - Ecology: QH543.6
- Marine reptiles: QL665.5
- Marine research ships: QH91.57.R47
- Marine toxins
  - Animal biochemistry: QP632.M37
- Marine venoms
  - Animal biochemistry: QP632.M37
- Maritime climatology: QC993.83+
- Maritime meteorology: QC993.83+
- Marking
  - Reptiles and amphibians: QL645.6+
- Markov chains
  - Stochastic processes: QA274.7+
- Markov processes
  - Quantum mechanics: QC174.17.M33
  - Stochastic processes: QA274.7+
- Marmosets: QL737.P925
- Marmots
  - Anecdotes and stories: QL795.M3
- Marograviaceae: QK495.M285
- Marrellidae
  - Paleozoology: QE823.M3
- Mars (Planet): QB641+
  - Perturbations: QB376
  - Satellites: QB403
  - Solar parallax: QB516
- Marsh ecology: QH541.5.M3
- Marshes
  - Biogeography: QH87.3
  - Botany: QK938.M3
  - Ecology: QH541.5.M3
  - Zoology: QL114
- Marsileaceae: QK524.M4
- Marsupial cats: QL737.M33
- Marsupial mice: QL737.M33
- Marsupial moles: QL737.M445
- Marsupialia: QL737.M3+
  - Paleozoology: QE882.M3+
- Marsupials: QL737.M3+
- Martingales
  - Stochastic processes: QA274.5
- Martyniaceae: QK495.M287
- Maser physics: QC685+
- Masking
  - Chemistry: QD63.M3
- Mass
  - Planets: QB603.M3
  - Sun: QB523
- Mass and weight measurements: QC105+
- Mass loss
  - Astrophysics: QB466.M37
- Mass movements
  - Geology: QE598+
- Mass spectrometry
  - Animal biochemistry: QP519.9.M3
  - Microbiology: QR69.M33
- Mass spectroscopy
  - Analytical chemistry: QD96.M3
- Mass transfer
  - Thermodynamics: QC318.M3
- Masses, Stellar: QB814
- Mast cells
  - Immunology: QR185.8.M35
- Mastacembelidae: QL638.M28

## INDEX

- Mastication
  - Physiology: QP149
- Mastigophora: QL368.A12
- Mastigophora
  - Paleozoology: QE774.F5
- Mastitis
  - Microbiology: QR201.M4
- Mastotermitidae: QL529.3.M3
- Mata
  - Mathematical statistics: QA276.45.M38
- Maternally acquired immunity: QR185.33
- Mathematica (Computer program language): QA76.73.M29
- Mathematical crystallography
  - Chemistry: QD911+
- Mathematical geology: QE33.2.M3
- Mathematical literature: QA41.7
- Mathematical logic: QA8.9+
  - Quantum mechanics: QC174.17.M35
- Mathematical models
  - Animal behavior: QL751.65.M3
  - Animal biochemistry: QP517.M3
  - Biology: QH323.5
  - Botany: QK46.5.M3
  - Ecology: QH541.15.M3
  - Electrochemistry: QD555.6.M36
  - Endocrine glands: QP187.3.M36
  - Evolution: QH371.3.M37
  - Genetics: QH438.4.M3
  - Immune structures: QR185.8.M36
  - Immunology: QR182.2.M36
  - Marine biology: QH91.57.M38
  - Nutrition research: QP143.5.M37
  - Philosophy of science: Q175.32.M38
  - Physiology: QP33.6.M36
  - Polymers: QD381.9.M3
  - Scientific research: Q180.55.M38
- Mathematical optimization
  - Analytical methods used in the solution of physical problems: QA402.5+
  - Mathematical physics: QC20.7.M27
- Mathematical physics: QC19.2+
  - Mathematical theory: QA401+
- Mathematical statistics: QA276+
- Mathematical theory of sound: QC223
- Mathematical writing
  - Mathematics teaching aid: QA20.M38
- Mathematical writing in mathematical study and teaching: QA20.M38
- Mathematics: QA1+
  - Analytical chemistry: QD75.4.C45
  - Animal behavior: QL751.65.M32
  - Astronomy: QB51.3.M38
  - Astrophysics: QB462.3
  - Chemistry: QD39.3.M3
  - Condensed matter physics: QC173.458.M38
  - Ecology: QH541.15.M34
  - Electromagnetism: QC760.4.M37
- Mathematics
  - Genetics: QH438.4.M33
  - Geophysics: QC809.M37
  - Inorganic chemistry: QD152.5.M38
  - Organic chemistry: QD255.5.M35
  - Philosophy of science: Q175.32.M38
  - Physical chemistry: QD455.3.M3
  - Quantum chemistry: QD462.6.M39
  - Seismology: QE539.2.M37
  - Structural geography: QE601.3.M38
  - Structural geology: QE501.4.M38
- Mathematics as a profession: QA10.5
- Mathematics, Computer: QA76.9.M35
- Mathematics in astronomy: QB51.3.M38
- Mathematics, Reverse: QA9.25+
- Mathematics, Use of electronic computers in: QA76.95
- Matrices
  - Algebra: QA184+
  - Linear and multilinear algebra: QA188+, QA188
- Matrices, Random
  - Algebra: QA196.5
- Matrix isolation spectroscopy
  - Analytical chemistry: QD96.M33
  - Physics: QC454.M32
- Matrix logic
  - Mathematical logic: QA9.9
- Matrix mechanics
  - Quantum mechanics: QC174.3+
- Matrix theories
  - Elementary particle physics: QC793.3.M36
- Matrix theory
  - Mathematical physics: QC20.7.M3
- Matroids
  - Algebra: QA166.6
- Mats
  - Microbial ecology: QR100.8.M37
- Matter, Constitution of: QC172+
- Matter, Properties of: QC173.28+
- Maude (Computer program language): QA76.73.M35
- Maxima and minima
  - Analytic geometry: QA563
- Maximal oxygen uptake
  - Physiology: QP120.M39
- Maxwell's demon
  - Thermodynamics: QC318.M35
- Maxwell's equations: QC669+
- Mayacaceae: QK495.M3
- Mayflies
  - Paleozoology: QE832.E65
  - Zoology: QL505+
- MDX (Computer program language): QA76.73.M39
- Meadow beauty
  - Botany: QK495.M514
- Meadow ecology
  - Biology: QH541.5.M4
- Meadowfoam
  - Botany: QK495.L73

## INDEX

- Meadows
  - Botany: QK938.M4
  - Ecology: QH541.5.M4
  - Zoology: QL115.5
- Mealybugs
  - Zoology: QL527.P83
- Mean density of the earth: QB341
- Mean field theory
  - Statistical physics: QC174.85.M43
- Meaning (Philosophy)
  - Philosophy of science: Q175.32.M43
- Means, Analysis of: QA279+
- Measles
  - Microbiology: QR201.M43
- Measles vaccine: QR189.5.M4
- Measure
  - Integral calculus: QA312+
- Measure theory
  - Mathematical physics: QC20.7.M43
  - Quantum mechanics: QC174.17.M4
- Measurement
  - Area: QC104.5
  - Elementary geometry: QA465
  - Volume: QC104
- Measurement of angles
  - Weights and measures: QC103
- Measurement of length: QC101+
- Measurement of software: QA76.76.S65
- Measurement of thickness: QC102.5
- Measurement uncertainty
  - Mathematical statistics: QA276.8
- Measurements
  - Analytical chemistry: QD75.4.C45
- Measuring
  - Virology: QR388
- Measuring and counting
  - Marine biology: QH91.57.C68
- Measuring instruments
  - Physics: QC100.5+
- Meat
  - Microbiology: QR117
  - Nutrition: QP144.M43
- Mechanical advantage: QC73.8.M4
- Mechanical chemistry
  - Chemistry: QD850
- Mechanical equivalent of heat: QC312
- Mechanical forces
  - Effect on plants: QK759
- Mechanical properties
  - Cells: QH645.5
  - Heart: QP114.M43
  - Petrology: QE431.6.M4
- Mechanics, Celestial: QB349+
- Mechanics of deformable bodies
  - Analytic mechanics: QA901+
- Mechanics of movement
  - Physiology: QP303
- Mechanoreceptors
  - Anatomy: QL938.M4
- Mecicobothriidae: QL458.42.M4
- Mecistocephalidae: QL449.55.M4
- Mecoptera
  - Paleozoology: QE832.M43
  - Zoology: QL598.5+
- Medial geniculate body
  - Anatomy: QL938.M43
- Medical botany: QK99.A1+
- Medical microbiology: QR46
- Medical mycology
  - Microbiology: QR245+
- Medical parasitology
  - Microbiology: QR251+
- Medical zoology: QL99
- Medicinal use
  - Animals: QL756.6
- Medieval works on mathematics: QA32
- Mediterranean-type ecology: QH541.5.M44
- Mediterranean-type plants
  - Botany: QK938.M45
- Medulla oblongata
  - Neurophysiology: QP377
- Medusagynaceae: QK495.M5
- Medusandraceae: QK495.M51
- Meenoplidae: QL527.M4
- Meerscham
  - Mineralogy: QE391.M34
- Megachasmidae: QL638.95.M44
- Megachilidae: QL568.M4
- Megadermatidae: QL737.C535
- Megakaryocytes
  - Physiology: QP97.5
- Megalodon
  - Cryptozoology: QL89.2.C37
- Megalodontacea
  - Paleozoology: QE812.M48
- Megalodontidae: QL568.M44
- Megalonychidae: QL737.E238
- Megalopidae: QL638.M33
- Megalopodidae: QL596.M3
- Megaloptera
  - Zoology: QL514.4+
- Megalopygidae: QL561.M4
- Megalosporaceae: QK585.M44
- Megalyridae: QL568.M45
- Megamerinidae: QL537.M4
- Megamouth shark: QL638.95.M44
- Megapodagrionidae: QL520.3.M4
- Megapodes
  - Zoology: QL696.G25
- Megapodiidae: QL696.G25
- Megascelidae: QL596.M34
- Megathripidae: QL598.3.M44
- Megathymidae: QL561.M42
- Meinertellidae: QL503.7.M44



## INDEX

- Meiosis
  - Cytology: QH605.3
- Melamphaeidae: QL638.M34
- Melampsoraceae: QK627.M44
- Melanconiaceae: QK625.M4
- Melanconiales: QK625.M4
- Melanconidaceae: QK623.M38
- Melanges
  - Petrology: QE471.15.M44
- Melaniidae: QL430.5.T45
- Melanin
  - Animal biochemistry: QP671.M44
- Melanoblossiidae: QL458.82.M4
- Melanocetidae: QL638.M35
- Melanogastraceae: QK629.M4
- Melanommatales: QK623.M39
- Melanophyceae: QK569.P5
- Melanopsidae: QL430.5.M44
- Melanosiderite
  - Mineralogy: QE391.M4
- Melanostomiatidae: QL638.M3573
- Melanostomiidae: QL638.M3573
- Melanotaeniidae: QL638.M358
- Melanothripidae: QL598.3.M45
- Melanthiaceae: QK495.M5135
- Melasidae: QL596.E8
- Melastomataceae: QK495.M514
- Melatonin
  - Animal biochemistry: QP572.M44
- Meleagrididae: QL696.G27
- Meliaceae: QK495.M52
- Meliantaceae: QK495.M524
- Meliolaceae: QK623.M4
- Meliolales: QK623.M4
- Meliphagidae: QL696.P249
- Melittidae: QL568.M46
- Mellates
  - Mineralogy: QE389.7
- Mellinidae: QL568.M466
- Melody
  - Neurophysiology: QP467
- Meloidae: QL596.M38
- Melolonthidae: QL596.M4
- Melongenidae: QL430.5.M47
- Melting points
  - Thermochemistry: QD518
- Melusinidae: QL537.S55
- Melyridae: QL596.M43
- Membracidae: QL527.M45
- Membrane lipids
  - Animal biochemistry: QP752.M45
- Membrane proteins
  - Animal biochemistry: QP552.M44
- Membranes, Cardiac
  - Physiology: QP114.M46
- Membranes in sound vibrations: QC241
- Memory
  - Animals: QL785.2
  - Neurophysiology: QP406
- Memory, Immunologic: QR185.35
- Memory management
  - Computer science: QA76.9.M45
- Menageries: QL73.A1+
- Mendel
  - Natural history: QH31.M45
- Mendelevium
  - Chemical element: Q1 .M3
- Mengeidae: QL599.3.M45
- Mengenillidae: QL599.3.M46
- Menidae: QL638.M37
- Meninges
  - Human anatomy: QM469
- Meningitis
  - Microbiology: QR201.M6
- Menispermaceae: QK495.M537
- Menoponidae: QL540.3.M4
- Menstruation
  - Physiology: QP263
- Menthidae: QL458.62.M4
- Menuridae: QL696.P2495
- Menyanthaceae: QK495.M5375
- Mephitidae: QL737.C248
- Mercapto compounds
  - Animal biochemistry: QP801.M37
  - Radiation chemistry: QD651.M38
- Mercury
  - Chemical element: Q1 .H6
  - Effect on plants and animals: QH545.M4
  - Meteorology: QC879.9.M47
- Mercury barometers
  - Meteorology: QC886+
- Mercury compounds
  - Spectra: QC464.M47
- Mercury ores
  - Mineralogy: QE390.2.M47
- Mercury (Planet): QB611+
  - Perturbations: QB371
  - Transit: QB515
- Mercury telluride
  - Semiconductor physics: QC611.8.M38
- Mercury thermometers: QC272
- Mergers
  - Galaxies: QB857.5.M47
- Mergers, Stellar: QB818.5
- Meridian, Determination of: QB207
- Meridian instruments
  - Astronomical instruments: QB101
- Meridians, Prime
  - Astronomy: QB224
- Merlucciidae: QL638.M4
- Meropeidae: QL598.7.M4
- Meropidae: QL696.C754
- Merostomata: QL447.7

## INDEX

- Merostomata
  - Paleozoology: QE825+
- Merothripidae: QL598.3.M47
- Merumite
  - Mineralogy: QE391.M45
- Mesencephalon
  - Neurophysiology: QP378+
- Mesentery
  - Anatomy: QL864
  - Human anatomy: QM367
  - Physiology: QP157
- Mesitornithidae: QL696.G85
- Mesoclimatology: QC981.7.M4
- Mesogastropoda
  - Paleozoology: QE809.M4
- Mesomerism
  - Physical chemistry: QD471
- Mesometeorology: QC883.4+
- Mesons
  - Elementary particle physics: QC793.5.M42+
- Mesopause
  - Meteorology: QC881.2.M3
- Mesoscopic phenomena
  - Solid state physics: QC176.8.M46
- Mesosphere
  - Meteorology: QC881.2.M3
- Mesotaeniaceae: QK569.M48
- Mesoveliidae: QL523.M4
- Mesozoa: QL391.M4
- Mesozoic
  - Paleobotany: QE921+
  - Paleontology: QE731+
  - Stratigraphy: QE675+
- Messenger RNA
  - Animal biochemistry: QP623.5.M47
- Metabasite: QE475.M45
- Metabolism
  - Bacterial physiology: QR88+
  - Biology: QH521
  - Heart physiology: QP114.M48
  - Physiology: QP171+
  - Phytochemistry: QK881+
- Metachandidae: QL561.M44, QL561.M44
- Metal carbonyls
  - Spectra: QC463.M38
- Metal-insulator transitions
  - Solid state physics: QC176.8.M48
- Metal oxides
  - Semiconductor physics: QC611.8.M4
- Metal vapors
  - Spectra: QC462.M47
- Metallic oxides
  - Magnetic materials: QC766.M4
  - Spectra: QC464.M48
  - Surface chemistry: QD509.M46
- Metallic wood borers: QL596.B8
- Metalloenzymes
  - Animal biochemistry: QP601.7+
- Metallofoldamers
  - Organic chemistry: QD382.O43
- Metallogeny
  - Mineralogy: QE364.2.M37
- Metalloproteins
  - Animal biochemistry: QP552.M46
- Metallothionein
  - Animal biochemistry: QP552.M47
- Metalmark moths: QL561.C47
- Metals
  - Analytical chemistry: QD132+
  - Animal biochemistry: QP532
  - Effect on plants: QK753.M47
  - Effect on plants and animals: QH545.M45
  - Elastic properties: QC191.5.M48
  - Geochemistry: QE516.M65
  - Microbial degradation: QR135.5.M37
  - Microbial metabolism: QR92.M45
  - Spectra: QC462.M49
- Metals, Free electron theory of
  - Solid state physics: QC176.8.F74
- Metals, Heavy
  - Effect on plants and animals: QH545.H42
- Metamathematics
  - Mathematical logic: QA9.8
- Metamorphic rocks: QE475.A2+
- Metamorphism: QE475.A2+
- Metamorphosis
  - Embryology: QL981
  - Insects: QL494.5
  - Invertebrates: QL363.5
- Metasomatism
  - Mineralogy: QE364.2.M4
- Meteor Crater (Ariz.)
  - Astronomy: QB756.M4
- Meteor showers: QB745+
- Meteorite craters: QB754.8+
- Meteorites: QB754.8+
- Meteoritic hypothesis (Cosmogony): QB980+
- Meteorological information, Exchange of: QC866.5.E93
- Meteorological instruments: QC875.5+
- Meteorological optics: QC974.5+
- Meteorological phenomena
  - Geomagnetism: QC839
- Meteorological stations: QC875.A2+
- Meteorology: QC851+
  - Mars (Planet): QB643.M48
  - Venus (Planet): QB623.M48
- Meteorology, Planetary: QB603.A85
- Meteors: QB740+
- Metformin
  - Animal biochemistry: QP801.M39
- Methacrylate polymers
  - Organic chemistry: QD383.A27

## INDEX

- Methane
  - Microbial metabolism: QR92.M46
- Methanol
  - Radiation chemistry: QD651.M4
- Methionine
  - Animal biochemistry: QP562.M4
- Methocidae: QL568.M48
- Methodology
  - Science: Q174+
- Methoxyhydroxyphenylglycol
  - Animal biochemistry: QP801.M42
- Methyl groups
  - Microbial metabolism: QR92.M47
- Methylation
  - Animal biochemistry: QP624.5.M46
  - Organic chemistry: QD281.M48
- Methylenetetrahydrofolate reductase
  - Animal biochemistry: QP603.M48
- Methylobacteriaceae: QR82.M38
- Methylomonadaceae: QR82.M4
- Methylotrophic bacteria: QR88.4
- Methylotrophy
  - Bacterial physiology: QR88.4
- Methyltransferases
  - Animal biochemistry: QP606.M48
- Methylxanthines
  - Animal biochemistry: QP801.M425
- Metamide
  - Animal biochemistry: QP801.M43
- Metopiidae: QL537.S25
- Metric spaces
  - Topology: QA611.28
- Metric system: QC90.8+
- Metzgeriaceae: QK555.M4
- Mevalonic acid
  - Animal biochemistry: QP801.M45
- Mexican burrowing pythons: QL666.O66
- Mica
  - Mineralogy: QE391.M6
  - Spectra: QC464.M53
- Mice: QL737.R666
  - Anecdotes and stories: QL795.M37
  - Experimental genetics: QH470.M52
  - Laboratory manuals: QL813.M55
- Micro:bit: QA76.8.M47
- Microbacteriaceae: QR82.M45
- Microbial degradation: QR135+
- Microbial differentiation: QR73.5
- Microbial ecology: QR100+
- Microbial genetics
  - Biology: QH434
- Microbial populations: QR73.8
- Microbial respiration: QR89+
- Microbial toxins
  - Animal biochemistry: QP632.M52
- Microbiological assay
  - Microbiology: QR69.M48
- Microbiological chemistry: QR148
- Microbiology: QR1+
- Microbiology for nurses: QR46
- Microbiology, Pharmaceutical: QR46.5
- Microbiotheria: QL737.M43+
  - Paleozoology: QE882.M35
- Microbiotheriidae: QL737.M435
- Microbodies
  - Cytology: QH603.M35
- Microbursts
  - Meteorology: QC880.4.M52
- Microcalorimeters: QC293.M5
- Microcharmidae: QL458.72.M52
- Microchemical analysis
  - Analytical chemistry: QD79.M5
  - Organic chemistry: QD272.M5
  - Qualitative analysis: QD98.M5
  - Quantitative analysis: QD117.M5
- Microchemistry
  - Quantitative analysis: QD117.M5
- Microcinematography
  - Microscopy: QH255
- Microcirculation
  - Physiology: QP106.6
- Microclimatology
  - Climatology: QC981.7.M5
  - Ecology: QH543+
- Microclusters
  - Atomic physics: QC173.4.M48
- Micrococcaceae: QR82.M5
- Microcomputer workstations: QA76.525
- Microdesmidae: QL638.M5
- Microhylidae: QL668.E26
- Microlensing
  - Galaxies: QB857.5.G7
- Microlocal analysis
  - Mathematical physics: QC20.7.M53
- Micromalthidae: QL596.M47
- Micromechanics
  - Solid state physics: QC176.8.M5
- Micrometeorology: QC883.7+
- Micrometers
  - Astronomical instruments: QB113
  - Physical instruments: QC102.5
- Micromonosporaceae: QR82.M55
- Microorganisms
  - Cellulose: QR160
  - Development: QR73.4
  - Evolution: QR13
  - Plant products: QR160
  - Recombination genetics: QH448+
- Microorganisms in the animal body
  - Microbiology: QR171.A1+
- Microorganisms of amphibians: QR314
- Microorganisms of animals: QR301+
- Microorganisms of birds: QR311
- Microorganisms of fishes: QR321

## INDEX

- Microorganisms of insects: QR327
- Microorganisms of invertebrates: QR325+
- Microorganisms of mammals: QR303
- Microorganisms of microorganisms: QR340+
- Microorganisms of plants: QR351
- Microorganisms of poikilotherms: QR330
- Microorganisms of reptiles: QR315
- Microorganisms of vertebrates: QR302+
- Micropaleontology: QE719+
- Micropeplidae: QL596.M5
- Micropezidae: QL537.M43
- Microphotometry
  - Optics: QC391
- Microphoton excitation microscopes: QH212.M84
- Microphysics
  - Atomic physics: QC173.4.M5
- Microphysidae: QL523.M47
- Micropipette techniques
  - Cytology: QH585.5.M52
- Micropolar elasticity
  - Analytic mechanics: QA932
- Microprobe analysis
  - Biological research: QH324.9.M5
- Microprogramming
  - Digital computers: QA76.635
- Micropterygidae: QL561.M48
- Microsatellites
  - Genetics: QH452.2
- Microsauria
  - Paleozoology: QE868.M53
- Microscope specimen preparation: QH231+
- Microscopic analysis
  - Petrology: QE434
- Microscopic anatomy
  - Human histology: QM550+
- Microscopic determinations
  - Determinative mineralogy: QE369.M5
- Microscopy
  - Natural history: QH201+
  - Plant anatomy: QK673
- Microseisms
  - Seismology: QE539.2.M5
- Microsoft Excel (Computer file)
  - Mathematical statistics: QA276.45.M53
- Microsoft .NET Framework
  - Computer software: QA76.76.M52
- Microsoft Network
  - Data processing system: QA76.57.M52
- Microsoft Visual Basic
  - Programming languages: QA76.73.M53
- Microsoft Visual Basic for applications
  - Programming languages: QA76.73.M53
- Microsoft Windows 10
  - Computer software
    - Operating systems: QA76.774.M435
- Microsoft Windows 7
  - Computer software
    - Operating systems: QA76.774.M43
- Microsoft Windows 8
  - Computer software
    - Operating systems: QA76.774.M434
- Microsoft Windows Me
  - Computer software
    - Operating systems: QA76.774.M48
- Microsoft Windows NT
  - Computer software
    - Operating systems: QA76.774.M53
- Microsoft Windows server
  - Computer software
    - Operating systems: QA76.774.M55
- Microsoft Windows Vista
  - Computer software
    - Operating systems: QA76.774.M56
- Microsoft Windows XP
  - Computer software
    - Operating systems: QA76.774.M58
- Mirosomes
  - Cytology: QH603.M4
- Microspectrophotometry
  - Cytology: QH585.5.M53
- Microsporida: QL368.M5
- Microsporidiosis
  - Microbiology: QR201.M73
- Microstigmatidae: QL458.42.M5
- Microtechnique
  - Microscopy: QH231+
  - Plant anatomy: QK673
- Microthyriaceae: QK623.M5
- Microtomy: QH233
- Microtrombidiidae: QL458.2.M53
- Microtubules
  - Cytology: QH603.M44
- Microwave meteorology: QC972.6+
- Microwave optics
  - Electromagnetic theory: QC675.8
- Microwave spectroscopy
  - Analytical chemistry: QD96.M5
  - Physics: QC454.M5
- Microwaves
  - Physiological effect: QP82.2.M5
  - Plasma physics: QC718.5.M5
  - Radio waves: QC677+
- Micrurgy
  - Microbiology: QR69.M5
- Midbrain
  - Neurophysiology: QP378+
- Middle American killifishes: QL638.P788
- Middle atmosphere
  - Meteorology: QC881.2.M53
- Middle Cretaceous
  - Stratigraphy: QE687

## INDEX

- Middle Jurassic
  - Stratigraphy: QE683
- Middle Triassic
  - Stratigraphy: QE678
- Middleware
  - Computer software: QA76.76.M54
- Midges
  - Paleozoology: QE832.D6
  - Zoology: QL537.C456
- Mie scattering: QC427.8.M5
- Migidae: QL458.42.M53
- Migmatite: QE475.M5
- Mignonette
  - Botany: QK495.R4
- Migration
  - Animal behavior: QL754
  - Birds: QL698.9
  - Electrochemistry: QD562.M54
  - Fishes: QL639.5
  - Gas dynamics: QC168.85.M53
  - Insects: QL496.2
  - Mammals: QL739.5
- Migratory animals
  - Animal behavior: QL754
- Milichiidae: QL537.M5
- Milk
  - Nutrition: QP144.M54
- Milk proteins
  - Animal biochemistry: QP552.M54
- Milk secretions
  - Physiology: QP246
- Milkweed
  - Botany: QK495.A815
- Milkweed butterflies: QL561.D3, QL561.N9
- Milkwort
  - Botany: QK495.P775
- Milky Way galaxy: QB857.7+
- Millimeter astronomy: QB479.4
- Millimeter waves
  - Physiological effect: QP82.2.M54
- Millipedes: QL449.6+
- Mimallonidae: QL561.M5
- Mimetidae: QL458.42.M54
- Mimicry
  - Ecology: QH546
- Mimidae: QL696.P25
- Mimosaceae: QK495.M545
- Mineral industries
  - Effect on plants and animals: QH545.M52
- Mineralogical chemistry: QE371
- Mineralogical laboratories: QE366.15+
- Mineralogy
  - Geology: QE351+
- Mineralogy, Descriptive: QE372+
- Mineralogy, Determinative: QE367+
- Minerals
  - Animal biochemistry: QP533
- Minerals
  - Effect on plants: QK753.M56
  - Microbial metabolism: QR92.M5
- Minima
  - Analytic geometry: QA563
- Minimal surfaces: QA644
- Minimum description length
  - Mathematical statistics: QA276.9
- Minimum message length
  - Mathematical statistics: QA276.9
- Mining, Data
  - Biological research: QH324.27
- Minitab
  - Mathematical statistics: QA276.45.M56
- Minitel
  - Data processing system: QA76.57.M55
- Minks
  - Anecdotes and stories: QL795.M5
  - Laboratory manuals: QL813.M56
- Minnnows
  - Zoology: QL638.C94
- Minor histocompatibility antigens: QR184.34+
- Minor planets: QB651+
  - Perturbations: QB377+
- Mint
  - Botany: QK495.L25
- Miocene
  - Paleobotany: QE929
  - Paleontology: QE739
  - Stratigraphy: QE694
- Mirages
  - Meteorological optics: QC976.M6
- Mirapinnidae: QL638.M57
- Miridae: QL523.M5
- Mirrors
  - Astronomy: QB88+
- Miscogastridae: QL568.M55
- Miscophidae: QL568.M56
- Misodendraceae: QK495.M55
- Missing mass: QB791.35
- Mississippian
  - Paleobotany: QE919.3
  - Paleontology: QE729.2
  - Stratigraphy: QE672
- Mistletoe
  - Botany: QK495.L87
- Mites
  - General: QL451+
  - Zoology: QL458+
- Mitochondria
  - Cytology: QH603.M5
- Mitochondrial DNA
  - Animal biochemistry: QP624.5.M58
- Mitosis
  - Cytology: QH605.2
- Mitridae: QL430.5.M57
- Mitsukurinidae: QL638.95.M58

## INDEX

- ML (Computer program language): QA76.73.M6
- Mnesarchaeidae: QL561.M55
- Mniaceae: QK539.M68
- Mobile communication systems
  - Mathematics teaching aid: QA20.M63
- Mobile computing
  - Digital computers: QA76.59
- Mobile genetic elements: QH452.3+
- Mobulidae: QL638.85.M6
- Mochokidae: QL638.M6
- Mockingbirds: QL696.P25
- Modal logic
  - Mathematical logic: QA9.46
- Model-based reasoning
  - Artificial intelligence: Q339.19
- Model theory
  - Mathematical logic: QA9.7
- Modeling, Geochemical: QE515.5.G43
- Modelmaking
  - Zoology: QL64
- Models
  - Paleontology: QE721.2.M63
  - Zoology: QL64
- Models, Learning
  - Stochastic processes: QA274.6
- Models, Mathematical
  - Philosophy of science: Q175.32.M38
- Modern geometry: QA473+
- Modular arithmetic: QA247.35
- Modular curves: QA567.2.M63
- Modular fields
  - Algebra: QA247.3+
- Modular functions
  - Analysis: QA343
- Modular programming
  - Digital computers: QA76.637
- Mogoplistidae: QL508.M6
- Mohole project
  - Structural geology: QE501.4.M6
- Moissanite
  - Mineralogy: QE391.M67
- Moisture
  - Bacterial physiology: QR97.W37
- Mojarras: QL638.G43
- Mokele-mbembe: QL89.2.M58
- Molannidae: QL518.M6
- Molas: QL638.M64
- Mole crickets
  - Zoology: QL508.G87
- Mole salamanders: QL668.C23
- Mole vipers: QL666.O627
- Molecular aspects
  - Botany: QK95.6
- Molecular astrophysics: QB462.6
- Molecular beam epitaxy: QC611.6.M64
- Molecular beams
  - Atomic physics: QC173.4.M65
- Molecular biology
  - Biology: QH506
  - Fungi: QK604.2.M64
  - Heart physiology: QP114.M65
  - Plant physiology: QK728
- Molecular chaperones
  - Animal biochemistry: QP552.M64
- Molecular clouds: QB791.4
- Molecular clusters
  - Atomic physics: QC173.4.M48
- Molecular computers: QA76.887
- Molecular dimensions
  - Physical chemistry: QD461
- Molecular dynamics
  - Animal biochemistry: QP517.M65
- Molecular ecology
  - Ecology: QH541.15.M63
- Molecular emission cavity analysis
  - Analytical chemistry: QD79.P4
- Molecular endocrinology: QP187.3.M64
- Molecular entomology
  - Insects: QL493.5
- Molecular genetics
  - Biology: QH442+
  - Plants: QK981.4
- Molecular immunology: QR185.6
- Molecular microbiology: QR74
- Molecular neurobiology: QP356.2
- Molecular orbitals
  - Animal biochemistry: QP517.M66
  - Physical chemistry: QD461
- Molecular probes
  - Animal biochemistry: QP519.9.M64
- Molecular recognition
  - Animal biochemistry: QP517.M67
- Molecular rotation
  - Physical chemistry: QD481
- Molecular spectra
  - Analytical chemistry: QD96.M65
- Molecular spectroscopy
  - Physics: QC454.M6
- Molecular structure
  - Physical chemistry: QD461
- Molecular theory
  - Physical chemistry: QD461
- Molecular virology: QR389
- Molecular weights
  - Physical chemistry: QD463+
  - Polymers: QD381.9.M64
- Molecule models
  - Physical chemistry: QD480
- Molecules
  - Statistical physics: QC175.16.M6
- Moles (Animals)
  - Anecdotes and stories: QL795.M57
  - Zoology: QL737.S76
- Molidae: QL638.M64

## INDEX

- Molluginaceae: QK495.M6
- Mollusca
  - Paleozoology: QE801+
  - Zoology: QL401+
- Molossidae: QL737.C54
- Molybdates
  - Mineralogy: QE389.67
- Molybdenite
  - Mineralogy: QE391.M7
- Molybdenum
  - Chemical element: Q1 .M7
  - Effect on plants: QK753.M6
  - Effect on plants and animals: QH545.M6
- Molybdenum enzymes
  - Animal biochemistry: QP601.75.M64
- Moments
  - Elementary particle physics: QC793.3.S6
  - Nuclear interactions: QC794.6.M6
- Moments of inertia
  - Analytic mechanics: QA839
- Momentum, Angular
  - Physical optics: QC446.3.A54
- Momentum distributions
  - Atomic physics: QC173.4.M67
- Momotidae: QL696.C756
- Monamine oxidase
  - Animal biochemistry: QP603.M6
- Monascaceae: QK623.M63
- Monazite
  - Mineralogy: QE391.M75
- Mongoose
  - Anecdotes and stories: QL795.M6
  - Zoology: QL737.C235
- Moniliaceae: QK625.M7
- Moniliales: QK625.M74
- Monimiaceae: QK495.M67
- Monitor lizards
  - Zoology: QL666.L29
- Monitoring
  - Ecology: QH541.15.M64
- Monitoring, Volcanos: QE527.5
- Monkeys
  - Anecdotes and stories: QL795.M7
- Monoblepharidaceae: QK621.M6
- Monocanthidae: QL638.M645
- Monocentridae: QL638.M65
- Monoclinic systems (Crystallography): QD912
- Monoclonal antibodies
  - Immunology: QR186.85
- Monocotyledons: QK495.A14
  - Paleobotany: QE981
- Monocytes
  - Physiology: QP95.7
- Monodactylidae: QL638.M653
- Monodontidae: QL737.C433
- Monoedidae: QL596.M53
- Monognathidae: QL638.M654
- Monomachidae: QL568.M6
- Monomolecular films
  - Surface chemistry: QD509.M65
- Monooxygenases
  - Animal biochemistry: QP603.M65
- Monophlebidae: QL527.M37
- Monoplacophora: QL430.15
  - Paleozoology: QE805
- Monotidae
  - Paleozoology: QE812.M6
- Monotomidae: QL596.M57
- Monotremata: QL737.M7+
  - Paleozoology: QE882.M6
- Monsoons
  - Meteorology: QC939.M7
- Monstrilloida: QL444.C756
- Monte Carlo method
  - Mathematical physics: QC20.7.M65
  - Numerical analysis: QA298
  - Quantum chemistry: QD462.6.M66
  - Statistical physics: QC174.85.M64
- Monticuliporidae
  - Paleozoology: QE799.M6
- Monzonite: QE462.M6
- Moon
  - Capture by the earth: QB392.C3
  - Descriptive astronomy: QB580+
- Moon motion inequalities: QB392.I5
- Mooneyes: QL638.H56
- Moonseed
  - Botany: QK495.M537
- Moor ecology: QH541.5.M6
- Moorish idol (Fish)
  - Zoology: QL638.Z28
- Moors
  - Biogeography: QH87.3
  - Botany: QK938.M6
  - Ecology: QH541.5.M6
- Moose
  - Anecdotes and stories: QL795.M8
- Mopaliidae: QL430.14.M64
- Moraceae: QK495.M73
- Morag: QL89.2.M6
- Moraines
  - Geology: QE578
- Moral aspects
  - Computer science: QA76.9.M65
  - Genetics: QH438.7
  - Scientific research: Q180.55.M67
- Morays: QL638.M875
- Morchellaceae: QK623.M65
- Mordellidae: QL596.M6
- Mordenite
  - Mineralogy: QE391.M8
- Morehouse comet: QB723.M67
- Moridae: QL638.M67
- Moringaceae: QK495.M74

## INDEX

- Moringuidae: QL638.M675
- Mormoopidae: QL737.C543
- Mormotomyiidae: QL537.M6
- Mormyridae: QL638.M676
- Mormyriiformes: QL637.9.M6
- Morning-glory
  - Botany: QK495.C78
- Moronidae: QL638.M678
- Morphidae: QL561.M6
- Morphogenesis
  - Biology: QH491+
  - Plant anatomy: QK665
- Morphology
  - Algae: QK565+
  - Amphibians: QL669
  - Animals: QL799+
  - Aperygota: QL504
  - Arachnida: QL459
  - Arthropoda: QL434.7
  - Bacteria: QR75+
  - Biology: QH351
  - Birds: QL697+
  - Blattaria: QL505.8
  - Brachiopoda: QL395.9
  - Bryozoa: QL399
  - Coelenterata: QL378
  - Coleoptera: QL597
  - Crustacea: QL445
  - Ctenophora: QL380.7
  - Dermaptera: QL510.4
  - Diptera: QL538
  - Echinodermata: QL385
  - Embioptera: QL539.4
  - Ephemeroptera: QL505.4
  - Fishes: QL639
  - Fungi: QK601
  - Hemiptera: QL524
  - Homoptera: QL528
  - Hymenoptera: QL569
  - Insects: QL494
  - Invertebrates: QL363
  - Isoptera: QL529.4
  - Lepidoptera: QL562
  - Mallophaga: QL540.4
  - Mammals: QL739
  - Mecoptera: QL598.8
  - Megaloptera: QL514.8
  - Mollusca: QL431
  - Myriapoda: QL449.9
  - Neuroptera: QL514
  - Odonata: QL520.4
  - Orthoptera: QL509
  - Plecoptera: QL530.4
  - Porifera: QL374
  - Protozoa: QL369
  - Raphidioptera: QL514.95
  - Reptiles: QL669
- Morphology
  - Siphonaptera: QL599.8
  - Strepsiptera: QL599.4
  - Thysanoptera: QL598.4
  - Trichoptera: QL519
  - Worms: QL393
- Morphotectonics: QE511.44
- Mortality
  - Birds: QL698.25
- Mortierellaceae: QK621.M64
- Mosaic viruses
  - Virology: QR402
- Mosaicism
  - Genetics: QH445.7
- Moschatel
  - Botany: QK495.A178
- Moschidae
  - Zoology: QL737.U575
- Mosquitoes
  - Paleozoology: QE832.D6
  - Zoology: QL536
- Mössbauer effect: QC491
- Mössbauer spectroscopy: QC491
  - Analytical chemistry: QD96.M6
- Mosses
  - Botany: QK534+
  - Paleobotany: QE959
- Motacillidae: QL696.P252
- Mothflies: QL537.P85
- Mothman: QL89.2.M68
- Moths
  - Paleozoology: QE832.L5
  - Zoology: QL541+
- Motilin
  - Animal biochemistry: QP572.M66
- Motility
  - Cells: QH647
  - Microbiology: QR96
- Motion
  - Physics: QC133+
- Motion in the line of sight
  - Astronomy: QB857.5.M67
  - Stellar spectroscopy: QB901
- Motion of clouds: QC922+
- Motion of gases
  - Fluid mechanics: QC167.5+
- Motion of planets: QB603.M6
- Motion of surfaces
  - Dynamics of a particle
  - Analytic mechanics: QA855
- Motion pictures
  - Mathematics teaching aid: QA19.M6
- Motion pictures in science teaching: Q192
- Motion, Stellar: QB810+
- Motions
  - Kinematics: QA841+



## INDEX

- Motivation
  - Animals: QL781.3
  - Neurophysiology: QP409
- Motmots: QL696.C756
- Mountain beavers: QL737.R626
- Mountain bikes
  - Effect on plants and animals: QH545.A42
- Mountain biking
  - Effect on plants and animals: QH545.A42
- Mountain birds
  - Zoology: QL677.79.M68
- Mountain building: QE621+
- Mountain climatology: QC993.6
- Mountain ecology: QH541.5.M65
- Mountain meteorology: QC993.6
- Mountain winds: QC939.M8
- Mountains
  - Biogeography: QH87
  - Ecology: QH541.5.M65
  - Plant ecology: QK937
  - Zoology: QL113
- Mounting of microscope specimens: QH239
- Mouse-tailed bats: QL737.C585
- Mouth
  - Anatomy: QL857
  - Human anatomy: QM306
  - Physiology: QP146+
- Movement
  - Biology: QH514
  - Physiology: QP301+
- Movement in visual space perception
  - Neurophysiology: QP493
- Movement of the eye
  - Neurophysiology: QP477.5
- Movement, Sense of
  - Physiology: QP454
- Movements
  - Plant physiology: QK771+
- Movements affecting growth
  - Plant physiology: QK773+
- Moving axes
  - Kinematics: QA841+
- Moving media
  - Electromagnetic theory: QC671
- MSH
  - Animal biochemistry: QP572.M75
- Mu bacteriophage: QR342.2.M82
- Mucedinaceae: QK625.M7
- Mucilage
  - Plant constituent: QK898.M8
- Mucins
  - Animal biochemistry: QP552.M8
- Mucopolysaccharides
  - Animal biochemistry: QP702.M8
- Mucoraceae: QK621.M94
- Mucorales: QK621.M96
- Mucous membrane
  - Immunology: QR185.9.M83
- Mucous membrane secretions
  - Physiology: QP215
- Mucus
  - Physiology: QP215
- Mudflows
  - Geology: QE599+
- Mudminnows: QL638.U5
- Muds, Drilling
  - Effect on plants and animals: QH545.D74
- Mudslides
  - Geology: QE599+
- Mudstone
  - Petrology: QE471.15.M83
- Mugilidae: QL638.M8
- Mugiloididae: QL638.P613
- Mulberry
  - Botany: QK495.M73
- Mullets
  - Zoology: QL638.M8
- Mullidae: QL638.M85
- Multilayered thin films: QC176.9.M84
- Multilinear algebra: QA184+, QA199.5
- Multilingual computing
  - Computer science: QA76.9.M68
- Multimedia computer systems: QA76.575
- Multimedia data mining
  - Computer science: QA76.9.D343
- Multimedia systems
  - Digital computers: QA76.575
- Multiphase flow
  - Fluid dynamics: QA922
- Multiple birth
  - Embryology: QL971+
- Multiple scattering
  - Atomic physics: QC173.4.M85
- Multiple stars: QB821+
- Multiplication
  - Elementary mathematics: QA115
- Multiplication tables: QA49
- Multiplicity
  - Nuclear interactions: QC794.6.M85
- Multiply charged ions
  - Electric discharge: QC702.7.M84
- Multiring basins: QB456
- Multisensory processing
  - Physiology: QP442
- Multistage decision procedures
  - Mathematical statistics: QA279.7
- Multituberculata
  - Paleozoology: QE882.M8
- Multivariate analysis
  - Mathematical statistics: QA278+
- Munitions
  - Effect on plants and animals: QH545.M86

## INDEX

- Muons
  - Elementary particle physics: QC793.5.M42+
- Muraenesocidae: QL638.M87
- Muraenidae: QL638.M875
- Muraenolepididae: QL638.M876
- Murchisoniata
  - Paleozoology: QE809.M8
- Muricidae: QL430.5.M9
  - Paleozoology: QE809.M85
- Muridae: QL737.R666
- Muriquis: QL737.P915
- Murmidiidae: QL596.M8
- Murres: QL696.C42
- Mururoa Atoll
  - Geology: QE566.M87
- Musaceae: QK495.M78
- Musales: QK495.A14
- Musci: QK534+
  - Muscicapidae: QL696.P255
  - Muscidae: QL537.M8
- Muscle
  - Physiology: QP321+
- Muscle nerves
  - Physiology: QP369+
- Muscle proteins
  - Animal biochemistry: QP552.M85
- Muscles
  - Anatomy: QL831
  - Human anatomy: QM151+
  - Physiology: QP321+
- Muscovite
  - Mineralogy: QE391.M85
- Muscular sense
  - Physiology: QP454
- Muscular tissues
  - Human histology: QM571
- Musculoskeletal system
  - Human anatomy: QM100
  - Physiology: QP301+
- Museums
  - Astronomy: QB2.A1+
  - Botany: QK79+
  - Fungi: QK600.5+
  - Physics: QC60.A1+
  - Science: Q105.A1+
  - Weights and measures: QC81.5.A1+
- Mushrooms
  - Botany: QK617
- Music
  - Mathematics teaching aid: QA19.M87
  - Science: Q172.5.M87
- Musidoridae: QL537.L63
- Musk deer
  - Zoology: QL737.U575
- Musk-oxen
  - Anecdotes and stories: QL795.M85
- Muskrats
  - Anecdotes and stories: QL795.M87
- Musophagidae: QL696.C85
- Musophagiformes: QL696.C85
- Mustard
  - Botany: QK495.C9
- Mustelidae: QL737.C25
- Mutagenesis, Site-specific: QH465.5
- Mutation
  - Evolution: QH390
- Mutations
  - Genetics: QH460+
- Mutillidae: QL568.M8
- Mutualism
  - Ecology: QH548.3
- MXenes
  - Inorganic chemistry: QD172.T6
- Myalinidae
  - Paleozoology: QE812.M9
- Mycelia Sterilia: QK625.M9
- Mycetaeidae: QL596.M9
- Mycetobiidae: QL537.M9
- Mycetophagidae: QL596.M92
- Mycetophilidae: QL537.M92
- Mycetopodidae: QL430.7.M85
- Mycetozoida: QL368.M78
- Mycobacteriaceae: QR82.M8
- Mycobacterial diseases
  - Microbiology: QR201.M96
- Mycocaliciales: QK623.M89
- Mycology, Diagnostic
  - Microbiology: QR248
- Mycoparasitism: QK604.2.M89
- Mycoplasma diseases
  - Microbiology: QR201.M97
- Mycoplasmas
  - Microbiology: QR352+
- Mycoplasmataceae
  - Microbiology: QR352.5.M9
- Mycorrhizal fungi
  - Botany: QK604.2.M92
- Mycorrhizas
  - Botany: QK604.2.M92
- Mycosphaerellaceae: QK623.M93
- Mycosphaerellales: QK623.M93
- Mycotoxicoses
  - Microbiology: QR201.M98
- Mycotoxins
  - Animal biochemistry: QP632.M9
- Myctophidae: QL638.M9
- Myctophiformes: QL637.9.M93
- Mydidae: QL537.M93
- Myelin
  - Animal biochemistry: QP752.M9
- Myelin basic protein
  - Animal biochemistry: QP552.M88

## INDEX

- Myelin proteins
    - Animal biochemistry: QP552.M88
  - Myidae: QL430.7.M9
  - Myiodactylidae: QL513.M86
  - Myliobatidae: QL638.85.M9
  - Mylonite: QE475.M95
  - Mymaridae: QL568.M94
  - Mymarommatidae: QL568.M944
  - Mymarothripidae: QL598.3.M9
  - Myobatrachidae: QL668.E2615
  - Myobiidae: QL458.2.M9
  - Myocardium
    - Physiology: QP113.2
  - Myocastoridae: QL737.R668
  - Myocoptidae: QL458.2.M93
  - Myodocopida: QL444.O85
  - Myogenesis
    - Embryology: QL979
  - Myohemoglobin
    - Animal biochemistry: QP552.M9
  - Myonuclear junction
    - Physiology: QP369.5
  - Myoporaceae: QK495.M8
  - Myosin
    - Animal biochemistry: QP552.M93
  - Myriapoda: QL449+
    - Paleozoology: QE828+
  - Myricaceae: QK495.M83
  - Myrionemataceae: QK569.M87
  - Myristicaceae: QK495.M85
  - Myrmecobiidae: QL737.M335
  - Myrmecolacidae: QL599.3.M9
  - Myrmecophagidae: QL737.E24
  - Myrmecophilidae: QL508.M9
  - Myrmecophilism: QK924
  - Myrmeleontidae: QL513.M9
  - Myrmosidae: QL568.M97
  - Myrocongridae: QL638.M97
  - Myrothamnaceae: QK495.M86
  - Myrsinaceae: QK495.M87
  - Myrtaceae: QK495.M9
  - Myrtle
    - Botany: QK495.M9
  - Mysidacea: QL444.M35
  - Mysmenidae: QL458.42.M97
  - MySQL (Computer program language): QA76.73.S67
  - Mystacinidae: QL737.C545
  - Mystacocarida: QL444.M9
  - Mysticeti: QL737.C42+
  - Mythicomyiidae: QL537.M98
  - Mytilidae: QL430.7.M95
    - Paleozoology: QE812.M94
  - Myxini: QL638.13+
  - Myxinidae: QL638.15.M9
  - Myxiniformes: QL638.14+
  - Myxococcaceae: QR82.M95
  - Myxomycetes
    - Botany: QK635.A1+
  - Myxophyceae: QR99.6+
  - Myxosporida: QL368.M8
  - Myxoviruses
    - Virology: QR404
  - Myzopodidae: QL737.C55
- N
- N stars: QB843.N12
  - Nabidae: QL523.N3
  - Nacellidae: QL430.5.N27
  - Nacreous clouds: QC921.43.N3
  - NAD (Coenzyme)
    - Animal biochemistry: QP625.N34
  - Naiadaceae: QK495.N3
  - Nails
    - Anatomy: QL942
    - Human anatomy: QM488
  - Naked singularities (Cosmology): QB991.N34
  - Names
    - Planets: QB600.5
  - Nandidae: QL638.N25
  - Nannofossils
    - Paleontology: QE955
  - Nanocrystals
    - Semiconductor physics: QC611.8.N33
  - Nanostructures
    - Solid state physics: QC176.8.N35
  - Naphthalene
    - Organic chemistry: QD391
  - Naphthoquinone
    - Spectra: QC463.N35
  - Napping
    - Physiology: QP427
  - Narrow gap semiconductors: QC611.8.N35
  - Narrow-mouthed toads: QL668.E26
  - Narrow operators
    - Functional analysis: QA329.5
  - Narrow-winged damselflies: QL520.3.C64
  - Narwhal
    - Zoology: QL737.C433
  - Nasopharyngeal system
    - Microbiology: QR171.N3
  - Nassariidae: QL430.5.N3
    - Paleozoology: QE809.N3
  - Nasturtium
    - Botany: QK495.T77
  - Natalidae: QL737.C555
  - Naticidae: QL430.5.N35
    - Paleozoology: QE809.N32
  - National plants
    - Botany: QK84.8+
  - Native elements
    - Mineralogy: QE389.1

## INDEX

- Natrium
  - Chemical element: Q1 .N2
- Natrolite: QE391.N27
- Natural areas: QH75+
- Natural computation: QA76.9.N37
- Natural disasters
  - Effect on plants and animals: QH545.N3
- Natural history: QH1+
- Natural history literature: QH13.45
- Natural immunity: QR185.2
- Natural language processing
  - Computers: QA76.9.N38
- Natural selection
  - Biology: QH375
  - Plants: QK985
- Natural systems
  - Botany: QK93+
- Naturalism
  - Philosophy of science: Q175.32.N38
- Nature and nurture
  - Genetics: QH438.5
- Nature books: QH81
- Nature conservation: QH75+
- Nature of life: QH341
- Nature reserves: QH75+
- Nature study: QH50.5+
- Nature trails
  - Study and teaching: QH58
- Naucoridae: QL523.N4
- Naujakasite: QE391.N3
- Nautical almanacs
  - Ephemerides: QB8.A+
- Nautilidae: QL430.3.N4
- Nautiloidea
  - Paleozoology: QE807.N4
- Naviculaceae: QK569.N37
- Navigation
  - Animals: QL782
  - Birds: QL698.8
- NCL (Computer program language): QA76.73.N39
- Near-field microscopes: QH212.N43
- Nearctodesmidae: QL449.65.N4
- Nebulae
  - Stellar spectroscopy: QB891
- Nebulae, Gaseous: QB855.55
- Nebulae, Planetary: QB855.5
- Nebulae, Proto-planetary: QB855.5
- Nebular hypothesis (Cosmology): QB980+
- Neck
  - Anatomy: QL950.4
  - Regional anatomy: QM535
- Neck muscles
  - Human anatomy: QM155
- Necks
  - Geology: QE611+
- Necrosis
  - Microbiology: QR201.N4
- Nectaries: QK657
- Nectariniidae: QL696.P257
- Nectriaceae: QK623.N43
- Nectrioidaceae: QK625.Z9
- Needlefishes: QL638.B34
- Neelidae: QL503.N4
- Neenchelyidae: QL638.N3
- Negative ions
  - Electric discharge: QC702.7.N4
- Negative refraction: QC426.8.N44
- Neididae: QL523.N46
- Neisseria infections
  - Microbiology: QR201.N45
- Neisseriaceae: QR82.N4
- Nekton
  - Aquatic biology: QH90.8.N44
  - Marine biology: QH91.8.N37
- Nelumbonaceae: QK495.N33
- Nemaliales: QK569.N43
- Nemastomataceae: QK569.N45
- Nemastomatidae: QL458.52.N4
- Nematistiidae: QL638.N33
- Nematoda: QL391.N4
- Nematode-destroying fungi: QK604.2.N45
- Nematomorpha: QL391.N5
- Nemertina: QL391.N6
- Nemesiidae
  - Zoology: QL458.42.N37
- Nemestrinidae: QL537.N44
- Nemichthyidae: QL638.N34
- Nemipteridae: QL638.N347
- Nemonychidae: QL596.N4
- Nemopteridae: QL513.N4
- Nemouridae: QL530.3.N4
- Neobalaenidae: QL737.C427
- Neobisiidae: QL458.62.N4
- Neoceratiidae: QL638.N36
- Neocortex
  - Anatomy: QL938.N45
  - Neurophysiology: QP383.12
- Neodymium
  - Chemical element: Q1 .N4
- Neogene
  - Paleobotany: QE928.5+
  - Paleontology: QE738.5+
  - Stratigraphy: QE693.5+
- Neogeophilidae: QL449.55.N4
- Neogregarinida: QL368.N4
- Neolignathidae: QL570.3.N4
- Neolobophoridae: QL510.3.N46
- Neon
  - Chemical element: Q1 .N5
- Neopseustidae: QL561.N38
- Neopterin
  - Animal biochemistry: QP801.N44
- Neoscopelidae: QL638.N38
- Neostethidae: QL638.N387

## INDEX

- Neotectonics: QE511.42
- Neottiophilidae: QL537.N46
- Nepenthaceae: QK495.N35
- Nepheline syenite: QE462.N4
- Nephilidae: QL458.42.N38
- Nephridia
  - Anatomy: QL872.5
- Nephrite: QE391.A2
- Nepticulidae: QL561.N4
- Neptune (Planet): QB691+
  - Perturbations: QB388
  - Satellites and ring system: QB407
- Neptunium
  - Chemical element: Q1 .N7
- Neriidae: QL537.N47
- Neritidae: QL430.5.N5
  - Paleozoology: QE809.N45
- Nerthridae: QL523.N53
- Nerve cells
  - Anatomy: QL931
- Nerve fibers
  - Anatomy: QL931
- Nerve growth factor
  - Animal biochemistry: QP552.N36
- Nerve proteins
  - Animal biochemistry: QP552.N37
- Nerve tissues
  - Human histology: QM575
- Nervous control of the heart
  - Physiology: QP113.4
- Nervous system
  - Anatomy: QL921+
  - Human anatomy: QM451+
  - Human embryology: QM695.N45
  - Invertebrates: QL935
  - Physiology: QP361+
  - Vertebrates: QL937
- Nesiotinidae: QL540.3.N4
- Nesogastridae: QL510.3.N48
- Nessorhamphidae: QL638.N4
- Nesticidae: QL458.42.N4
- Nests, Birds': QL675
- Netcentric computing
  - Computer science: QA76.9.N47
- Nets of plane curves: QA644
- Nettastomatidae: QL638.N46
- Nettle
  - Botany: QK495.U7
- Netwinged beetles: QL596.L9
- Network computers: QA76.527
- Neuradaceae: QK495.N37
- Neural circuitry
  - Physiology: QP363.3
- Neural computers: QA76.87
- Neural crest
  - Anatomy: QL938.N48
- Neural elements
  - Anatomy: QL931
- Neural networks: QA76.87
  - Physiology: QP363.3
- Neural transmission
  - Neurophysiology: QP364.5
- Neuroanthropology: QP360.6
- Neurobiology, Comparative: QP356.15
- Neurobiology, Developmental
  - Physiology: QP363.5
- Neurobiology, Molecular: QP356.2
- Neurochemistry: QP356.3
- Neuroendocrinology: QP356.4
- Neuroergonomics: QP360.7
- Neurogenesis
  - Physiology: QP363.5
- Neurogenetics: QP356.22
- Neuroglia: QP363.2
- Neuroimmunology: QP356.47
- Neurological technique
  - Anatomy: QL927
- Neuromuscular transmission
  - Neurophysiology: QP369.5
- Neuropeptide Y
  - Animal biochemistry: QP552.N38
- Neuropeptides
  - Animal biochemistry: QP552.N39
- Neurophysins
  - Animal biochemistry: QP552.N4
- Neurophysiology: QP351+
- Neurophysiology, Developmental: QP356.25
- Neuropilins
  - Animal biochemistry: QP552.N43
- Neuropsychology: QP360+
- Neuroptera
  - Paleozoology: QE832.N5
  - Zoology: QL511+
- Neuroscience, Cognitive: QP360.5
- Neurospora
  - Experimental genetics: QH470.N4
- Neurotensin
  - Animal biochemistry: QP572.N47
- Neurotransmitter receptors
  - Physiology: QP364.7
- Neurotransmitters
  - Physiology: QP364.7
- Neuston
  - Fresh water: QL142
  - Freshwater biology: QH96.8.N48
  - Marine biology: QH91.8.N4
- Neutral proteinases
  - Animal biochemistry: QP609.N48
- Neutrality
  - Plasma physics: QC718.5.N4
- Neutrino astrophysics
  - Astronomy: QB464.2

## INDEX

- Neutrinos
  - Elementary particle physics: QC793.5.N42+
- Neutrinos, Solar: QB539.S65
- Neutron scattering
  - Biological research: QH324.9.N48
- Neutron stars: QB843.N4
- Neutrons
  - Elementary particle physics: QC793.5.N462+
  - Genetic effects: QH465.N4
- Neutrophils
  - Immunology: QR185.8.N47
  - Physiology: QP95.8
- Neutrosphere
  - Meteorology: QC881.2.N4
- New stars: QB841
- New World porcupines: QL737.R652
- New World quails
  - Zoology: QL696.G259
- New World vultures
  - Zoology: QL696.C53
- New Zealand short-tailed bats: QL737.C545
- New Zealand wrens: QL696.P212
- Newcastle disease
  - Microbiology: QR201.N5
- Newcastle disease vaccine: QR189.5.N48
- Newton's Principia: QA803
- Newton's rings: QC410.9+
- Newts
  - Caudata: QL668.C2+
  - Salamandridae: QL668.C28
- Next Generation Space Telescope: QB500.269
- NF-kappa B (DNA-binding protein)
  - Animal biochemistry: QP552.N46
- Niacin
  - Animal biochemistry: QP772.N55
- Niacin amide
  - Animal biochemistry: QP772.N5
- Niche
  - Ecology: QH546.3
- Nickel
  - Chemical element: Q1 .N6
  - Effect on plants and animals: QH545.N47
- Nickel alloys
  - Analytical chemistry: QD137.N5
- Nickel electrodes: QD572.N53
- Nickel ores
  - Mineralogy: QE390.2.N53
- Nicoletiidae: QL503.8.N5
- Nicotinamide
  - Animal biochemistry: QP772.N5
- Nicotine
  - Animal biochemistry: QP801.N48
- Nicotinic acid
  - Animal biochemistry: QP772.N55
  - Microbial metabolism: QR92.N5
  - Plant constituent: QK898.N5
- Nicotinic acid amide
  - Animal biochemistry: QP772.N5
- Nidoviruses: QR403
- Nidulariaceae: QK629.N5
- Nidulariales: QK629.N5
- Night monkeys: QL737.P957
- Night sky: QC976.N5
- Night vision
  - Physiology: QP482
- Nightshade
  - Botany: QK495.S7
- Nilionidae: QL596.N54
- Niobates
  - Mineralogy: QE389.63
- Niobium
  - Chemical element: Q1 .N3
- Niobium superconductors: QC611.98.N54
- Nipah virus
  - Virology: QR404.2.N55
- Nipidae: QL523.N5
- Niponiidae: QL596.N57
- Nirvanidae: QL527.N5
- Nitidulidae: QL596.N58
- Niton
  - Chemical element: Q1 .R6
- Nitrariaceae: QK495.N58
- Nitrates
  - Effect on plants: QK753.N5
  - Mineralogy: QE389.64
  - Plant constituent: QK898.N57
  - Spectra: QC464.N57
- Nitration
  - Chemistry: QD63.N5
  - Organic chemistry: QD281.N5
- Nitric acid
  - Spectra: QC464.N574
- Nitric oxide
  - Plant constituent: QK898.N58
- Nitriles
  - Aliphatic compounds: QD305.N7
  - Aromatic compounds: QD341.N7
- Nitro compounds
  - Aliphatic compounds: QD305.N8
  - Aromatic compounds: QD341.N8
- Nitrobacteraceae: QR82.N5
- Nitrogen
  - Chemical element: Q1 .N1
  - Effect on plants: QK753.N54
  - Effect on plants and animals: QH545.N5
  - Microbial metabolism: QR92.N6
  - Plant constituent: QK898.N6
- Nitrogen compounds
  - Meteorology: QC879.9.N57
- Nitrogen cycle: QH344+
  - Marine biology: QH91.8.N46
- Nitrogen derivatives
  - Aliphatic compounds: QD305.N84

## INDEX

- Nitrogen derivatives
  - Aromatic compounds: QD341.N83
- Nitrogen dioxide
  - Spectra: QC464.N577
- Nitrogen fixation
  - Microbiology: QR89.7
- Nitrogen organic compounds
  - Animal biochemistry: QP801.N55
- Nitrogenase
  - Animal biochemistry: QP603.N58
- Nitroso compounds
  - Aliphatic compounds: QD305.N8
  - Aromatic compounds: QD341.N8
- Nitrous oxide
  - Radiation chemistry: QD651.N5
- Nobelium
  - Chemical element: Q1 .N65
- Nocardiaceae: QR82.N6
- Nociceptors: QP451.4
- Nocticolidae: QL505.7.N62
- Noctilionidae: QL737.C56
- Noctilucent clouds: QC976.N6
- Noctuidae: QL561.N7
- Nocturnal animals: QL755.5
- Nocturnal birds
  - Zoology: QL677.79.N63
- Nodules, Root
  - Bacteriology: QR113
- Noetiidae: QE812.N6, QL430.7.N63
- Nogodinidae: QL527.N6
- Noise
  - Effect on plants and animals: QH545.N65
  - Information theory: Q380
  - Physiological effect: QP82.2.N6
- Noise storms, Solar: QB539.N6
- Nolanaceae: QK495.N6
- Nolidae: QL561.N74
- Nomeidae: QL638.N5
- Nomenclature
  - Analytical chemistry: QD71.8
  - Birds: QL677
  - Botany: QK96
  - Color
    - Plant anatomy: QK669
  - Fungi: QK603.3
  - Mammals: QL708
  - Natural history: QH83
  - Reptiles and amphibians: QL645
  - Science: Q179
- Nomography: QA90
- Non-aromatic compounds with ring structure: QD305.H9
- Non-enzymatic proteolysis
  - Animal biochemistry: QP551.6
- Non-Euclidean geometry: QA685
- Non-Newtonian fluids
  - Fluid dynamics: QA929.5
- Non-optical methods of astronomy: QB468+
- Non-relational databases: QA76.9.D32
- Nonaqueous solvents
  - Electrochemistry: QD555.6.N65
  - Physical chemistry: QD544.5
- Nonassociative algebras
  - Mathematical physics: QC20.7.N58
- Nonassociative rings and algebras: QA252+
- Nonclassical formal systems
  - Mathematical logic: QA9.4+
- Noncommutative differential geometry: QC20.7.D52
- Noncommutative rings and algebras: QA251.4
- Noncooperative games
  - Algebra: QA272.5
- Nondisjunction
  - Chromosomal mutation: QH462.N65
- Nonequilibrium
  - Superconductors: QC611.97.E69
- Nonequilibrium statistical mechanics: QC174.86.N65
- Nonequilibrium thermodynamics: QC318.I7
- Nonferrous alloys
  - Analytical chemistry: QD135+
- Nonhistone chromosomal proteins
  - Animal biochemistry: QP552.N62
- Nonholonomic dynamical systems
  - Topology: QA614.833
- Nonhomogeneous fluids
  - Descriptive mechanics: QC153
- Nonionizing radiation
  - Physiological effect: QP82.2.N64
- Nonlinear acoustics: QC244.2
- Nonlinear chemical kinetics: QD502.2
- Nonlinear control theory
  - System analysis: QA402.35
- Nonlinear functional analysis: QA321.5
- Nonlinear operators
  - Functional analysis: QA329.8+
- Nonlinear optics: QC446.15+
- Nonlinear oscillations
  - Analytic mechanics: QA867.5
- Nonlinear theories
  - Analysis: QA427
  - Mathematical physics: QC20.7.N6
- Nonlinear wave mechanics: QC174.24.N6
- Nonlinearity
  - Analysis: QA427
- Nonliving matter
  - Comparison with living: QH343
- Nonmetallic minerals
  - Spectra: QC464.N64
- Nonmetallic solids
  - Solid state physics: QC176.8.N65
- Nonmetallic thin films: QC176.9.N64
- Nonmonotonic reasoning
  - Artificial intelligence: Q339.2
- Nonparametric methods
  - Mathematical statistics: QA278.8

## INDEX

- Nonrelativistic wave mechanics
  - Atomic physics: QC174.24.N64
- Nonsense mutation: QH463.2
- Noradrenalin
  - Animal biochemistry: QP572.N6
- Norepinephrine
  - Animal biochemistry: QP572.N6
- Normanichthyidae: QL638.N57
- Normed linear spaces
  - Functional analysis: QA322.2
- Norovirus infections
  - Microbiology: QR201.N67
- Noroviruses: QR403.5
- North American spadefoot toads: QL668.E33
- Northeaster storms: QC945
- Northern lights: QC972.5.B6
- Northern sky
  - Astronomy: QB500.28
- Northers
  - Meteorology: QC939.N8
- Nose
  - Anatomy: QL947
  - Human anatomy: QM505
- Nosodendridae: QL596.N6
- Nostocaceae: QR99.7.N67
- Notacanthidae: QL638.N58
- Notacanthiformes: QL637.9.N6
- Notation
  - Analytical chemistry: QD71.8
  - Biology: QH304.5
  - Natural history: QH83.5
- Notch proteins
  - Animal biochemistry: QP552.N67
- Nothing (Philosophy)
  - Philosophy of science: Q175.32.N68
- Nothoblattidae: QL505.7.N68
- Nothosauria
  - Paleozoology: QE862.N7
- Nothridae: QL458.2.N67
- Nothybidae: QL537.N6
- Notiothaumidae: QL598.7.N6
- Notodelphyoidea: QL444.C76
- Notodontidae: QL561.N8
- Notograptidae: QL638.N586
- Notoligotomidae: QL539.3.N6
- Notonectidae: QL523.N6
- Notopteridae: QL638.N5867
- Notoryctemorphia: QL737.M44+
  - Paleozoology: QE882.M36
- Notoryctidae: QL737.M445
- Notostigmata: QL458.15.O65
- Notostraca: QL444.B86
- Notosudidae: QL638.N5873
- Nototherniidae: QL638.N6
- Notoungulata
  - Paleozoology: QE882.N6
- Novae, Dwarf: QB843.D85
- Novumbridae: QL638.U5
- Nowcasting
  - Meteorology: QC997.75
- Nuclear activation analysis
  - Analytical biochemistry: QP519.9.N8
  - Nuclear chemistry: QD606
- Nuclear astrophysics: QB463+
- Nuclear chemistry
  - Chemistry: QD601+
- Nuclear cluster theory
  - Elementary particle physics: QC793.3.S8
- Nuclear counters
  - Nuclear physics: QC787.C6
- Nuclear emulsions: QC787.N78
- Nuclear fission: QC789.7+
- Nuclear forces: QC793.3.B5
- Nuclear fusion: QC790.95+
- Nuclear geology: QE501.4.N9
- Nuclear interactions
  - Elementary particle physics: QC793.9+
- Nuclear isobars
  - Radioactive substances: QC795.8.N8
- Nuclear isomers
  - Radioactive substances: QC795.8.N8
- Nuclear magnetic resonance
  - Biological research: QH324.9.N8
  - Heart: QP112.5.N83
  - Physics: QC762
- Nuclear magnetic resonance spectroscopy
  - Analytical biochemistry: QP519.9.N83
  - Analytical chemistry: QD96.N8
  - Crystallography: QD906.7.N83
  - Cytology: QH585.5.N82
  - Microbiology: QR69.N83
- Nuclear magnetism
  - Physics: QC761.9+
- Nuclear materials
  - Bacteria: QR76.5
- Nuclear matrix
  - Cytology: QH603.N83
- Nuclear matter
  - Elementary particle physics: QC793.3.N8
- Nuclear measurements: QC784.5
- Nuclear membranes
  - Cytology: QH601.2
- Nuclear models
  - Elementary particle physics: QC793.3.S8
- Nuclear molecules
  - Elementary particle physics: QC793.3.N82
- Nuclear orientation
  - Elementary particle physics: QC793.3.S6
- Nuclear physics: QC770+
- Nuclear power plants
  - Effect on plants and animals: QH545.N8
- Nuclear quadrupole resonance spectroscopy
  - Analytical chemistry: QD96.N84
- Nuclear reactions, Solar: QB539.N8



## INDEX

- Nuclear reactors
  - Effect on plants and animals: QH545.N8
  - Physics: QC786.4+
- Nuclear shapes
  - Elementary particle physics: QC793.3.N83
- Nuclear spectroscopy
  - Physics: QC454.N8
- Nuclear track detectors: QC787.N83
- Nuclear warfare
  - Effect on plants and animals: QH545.N83
- Nucleases
  - Animal biochemistry: QP609.N78
- Nucleic acids
  - Animal biochemistry: QP620+
  - Biochemistry: QD433+
  - Microbial metabolism: QR92.N8
  - Plant constituent: QK898.N8
- Nuclein
  - Animal biochemistry: QP625.N8
- Nucleohistones
  - Animal biochemistry: QP625.N86
- Nucleolus
  - Cytology: QH596
- Nucleons
  - Elementary particle physics: QC793.5.N82+
- Nucleopeptides
  - Animal biochemistry: QP552.N82
- Nucleoproteins
  - Animal biochemistry: QP625.N87
- Nucleosidases
  - Animal biochemistry: QP609.N8
- Nucleosides
  - Animal biochemistry: QP625.N88
- Nucleosynthesis
  - Nuclear astrophysics: QB464.3
- Nucleotides
  - Animal biochemistry: QP625.N89
  - Microbial metabolism: QR92.N82
  - Organic chemistry: QD436.N85
  - Plant constituent: QK898.N83
- Nucleus
  - Cytology: QH595
- Nuclides
  - Elementary particle physics: QC793.5.N862+
- Nucloidae
  - Paleozoology: QE812.N8
- Nuculanidae: QL430.7.N85
- Nuculidae: QL430.7.N9
- Nuda: QL380.5.N8+
- Null models
  - Ecology: QH541.15.N84
- Numbat: QL737.M335
- Number concept
  - Animals: QL785.24
  - Mathematics: QA141+
- Number concept (Elementary): QA141.15
- Number theory
  - Algebra: QA241+
- Numeration
  - Mathematics: QA141+
- Numeration systems
  - Mathematics: QA141+
- Numerical analysis: QA297+
  - Mathematical physics: QC20.7.N86
- Numerical approximation: QA297.5
- Numerical calculating: QA71+
- Numerical differentiation
  - Numerical analysis: QA299
- Numerical integration
  - Numerical analysis: QA299.3+
- Numerical simulation: QA298
- Numerical solutions
  - Theory of equations: QA218
- Numididae: QL696.G258
- Nurse sharks: QL638.95.G55
- Nutation
  - Plant movement: QK773
- Nutation and precession
  - Spherical astronomy: QB165
- Nuthatches: QL696.P275
- Nutmeg
  - Botany: QK495.M85
- Nutria: QL737.R668
- Nutrient interactions
  - Physiology: QP143.7
- Nutrition
  - Bacterial physiology: QR86
  - Biology: QH519
  - Physiology: QP141+
  - Plant physiology: QK867+
- Nutrition adaption
  - Plants: QK915+
- Nutritional aspects
  - Immunology: QR182.2.N86
- Nutritive matter
  - Plants: QK746
- Nyctaginaceae: QK495.N9
- Nyctemeridae: QL561.N87
- Nycteriidae: QL537.N9
- Nycteridae: QL737.C565
- Nyctibiidae: QL696.C25
- Nyctiboridae: QL505.7.N9
- Nyctipithecidae: QL737.P957
- Nymphaeaceae: QK495.N97
- Nymphalidae: QL561.N9
- Nymphidae: QL513.N9
- Nymphomyiidae: QL537.N94
- Nyssaceae: QK495.N975
- Nyssonidae: QL568.N9

O

O stars: QB843.O12

## INDEX

- Oak
  - Botany: QK495.F14
- Oarfishes: QL638.R4
- Oberthuerellidae: QL568.O25
- Object monitors
  - Computer software: QA76.76.M54
- Object-oriented methods
  - Computer science: QA76.9.O35
- Object-oriented programming
  - Digital computers: QA76.64
- Object-oriented programs
  - Digital computers: QA76.64
- Objective-C (Computer program language): QA76.73.O115
- Oblique projection: QA507
- Obolidae
  - Paleozoology: QE797.O2
- Observation
  - Philosophy of science: Q175.32.O27
- Observations
  - Atmospheric ozone: QC879.72+
  - Atmospheric pressure: QC885.4+, QC889
  - Atmospheric temperature: QC901+
  - Auroras: QC971.7.A1+
  - Clouds: QC921.375+
  - Earthquakes: QE532.A+
  - Evaporation: QC915.6+
  - Geodesy: QB296.A1+
  - Mesometeorology: QC883.54+
  - Meteorological optics: QC975.9.A1+
  - Meteorology: QC871+
  - Micrometeorology: QC883.84+
  - Perturbations: QB397
  - Rain and rainfall: QC925.1+
  - Solar radiation: QC911.8+
  - Upper atmosphere: QC879.59.A1+
- Observatories
  - Astronomy: QB81+
  - Geomagnetism: QC818.A2+
  - Geophysics: QC808.A2+
  - Radio astronomy: QB479.A2+
  - Seismology: QE540.A2+
- Observatory buildings: QB84
- Observatory domes: QB84
- Observed confidence levels
  - Mathematical statistics: QA277.5
- Obsidian: QE462.O28
- Obstruction theory
  - Topology: QA612.79
- Occipital lobe
  - Neurophysiology: QP382.O22
- Occlusion of gases
  - Gas mechanics: QC162
- Occultations of stars: QB392.O3
- Occultations, Prediction of: QB175+
- Ocean acidification
  - Effect on plants and animals: QH545.O32
- Ocean bottom ecology: QH541.5.O24
- Ocean climatology: QC993.83+
- Ocean currents
  - Ecology: QH541.5.O25
- Ocean ecology: QH541.5.S3
- Ocean fertilization
  - Effect on plants and animals: QH545.S43
- Ocean meteorology: QC993.83+
- Ocean outfalls
  - Effect on plants and animals: QH545.O33
- Ocean tomography
  - Acoustics: QC242.5.O23
- Ochnaceae: QK495.O3
- Ochodaeidae: QL596.O25
- Ochotonidae: QL737.L33
- Ochromonadaceae: QK569.O37
- Ochsenheimeriidae: QL561.O26
- Ochtheridae: QL523.O3
- Ochyroceratidae: QL458.42.O3
- Ocotillo
  - Botany: QK495.F6
- Octahedrites
  - Astronomy: QB757.5.O37
- Octal system: QA141.6
- Octodontidae: QL737.R67
- Octopodidae: QL430.3.O2
- Octopuses
  - Zoology: QL430.3.O2
- Oculosida: QL368.O3
- Odacidae: QL638.O2
- Odd-toed ungulates: QL737.U6+
- Oдиниidae: QL537.O3
- Odobenidae: QL737.P62
- Odonata
  - Paleozoology: QE832.O36
  - Zoology: QL520+
- Odontaspidae: QL638.95.O3
- Odontobutidae: QL638.O23
- Odontoceridae: QL518.O4
- Odontoceti: QL737.C43+
- Odontognathae
  - Paleozoology: QE872.O2
- Odontoholcae
  - Paleozoology: QE872.O2
- Odontophoridae: QL696.G259
- Odontostomatida: QL368.O4
- Odor
  - Physical chemistry: QD473
- Odoriferous glands
  - Anatomy: QL943
- Oecanthidae: QL508.O4
- Oecobiidae: QL458.42.O4
- Oecophoridae: QL561.O43
- Oedemeridae: QL596.O4
- Oedogoniaceae: QK569.O4
- Oedogoniales: QK569.O4
- Oenothera
  - Experimental genetics: QH470.O35

## INDEX

- Oestridae: QL537.O4
- Off-road vehicles
  - Effect on plants and animals: QH545.A43
- Official plants
  - Botany: QK84.8+
- Offshore oil industry
  - Effect on plants and animals: QH545.O38
- Ogcocephalidae: QL638.O3
- Ogopogo: QL89.2.O34
- Ohm's law: QC607
- Oidiomycosis
  - Microbiology: QR201.O6
- Oil field brines
  - Effect on plants and animals: QH545.O47
- Oil pollution
  - Effect on plants and animals: QH545.O5
  - Marine biology: QH91.8.O4
- Oil sands extraction plants
  - Effect on plants and animals: QH545.O54
- Oil shale extracts
  - Genetic effects: QH465.O44
- Oil shales
  - Effect on plants and animals: QH545.O56
- Oil well drilling
  - Effect on plants and animals: QH545.O57
- Oilbirds: QL696.C28
- Oilseeds
  - Nutrition: QP144.O44
- Oinophilidae: QL561.T55
- Olacaceae: QK495.O35
- OLAP technology
  - Computer science: QA76.9.D343
- Old growth forest ecology: QH541.5.F6
- Old growth forests
  - Natural history: QH86
- Old World catfishes
  - Zoology: QL638.S6
- Old World flycatchers: QL696.P255, QL696.P2585
- Old World fruit bats: QL737.C575
- Old World leaf-nosed bats: QL737.C533
- Old World monkeys: QL737.P93
- Old World pigs: QL737.U58
- Old World porcupine: QL737.R664
- Old World quails
  - Zoology: QL696.G27
- Old World sucker-footed bats: QL737.C55
- Old World vultures: QL696.F32
- Old World warblers: QL696.P279
- Older people and computers: QA76.9.O43
- Oleaceae: QK495.O44
- Olefins
  - Aliphatic compounds: QD305.H7
- Olethreutidae: QL561.O6
- Olfactory receptor genes: QH447.8.O43
- Oligembiidae: QL539.3.O44
- Oligoadenylates
  - Animal biochemistry: QP625.O45
- Oligocene
  - Paleobotany: QE928
  - Paleontology: QE738
  - Stratigraphy: QE693
- Oligomers
  - Organic chemistry: QD382.O43
- Oligoneuridae: QL505.3.O4
- Oligonucleotides
  - Animal biochemistry: QP625.O47
- Oligosaccharides
  - Animal biochemistry: QP702.O44
- Oligothiophenes
  - Organic chemistry: QD382.C665
- Oligotomidae: QL539.3.O46
- Oligotrichida: QL368.O5
- Oliniaceae: QK495.O446
- Olivary nucleus
  - Anatomy: QL938.O44
- Olive
  - Botany: QK495.O44
- Olive oil
  - Animal biochemistry: QP752.O42
  - Plant constituent: QK898.O4
- Olividae: QL430.5.O5
  - Paleozoology: QE809.O44
- Olivinite: QE462.O43
- Olpidiaceae: QK621.O4
- Olpidae: QL458.62.O4
- Olvine
  - Mineralogy: QE391.O45
- Olympiads
  - Computer science: QA76.9.O59
- Olyridae: QL638.O4
- Omega-3 fatty acids
  - Animal biochemistry: QP752.O44
- Omega-6 fatty acids
  - Animal biochemistry: QP752.O45
- Omentum
  - Anatomy: QL864
  - Human anatomy: QM367
  - Physiology: QP157
- Ommastrephidae: QL430.3.O5
- Omosudidae: QL638.O45
- Omphralidae: QL537.S34
- Onagraceae: QK495.O46
- Oncogenic DNA viruses
  - Virology: QR372.O58
- Oncogenic viruses
  - Microbiology: QR372.O6
- Oncopodidae: QL458.52.O5
- Oncopoduridae: QL503.O5
- Oncoviruses
  - Microbiology: QR372.O6
- Oneirodidae: QL638.O5
- Onion: QK495.A42
- Oniscodesmidae: QL449.65.O6
- Online data processing: QA76.55+

## INDEX

- Online databases: QA76.9.D32
- Ontologies
  - Information theory: Q387.4
- Ontology
  - Philosophy of science: Q175.32.O58
- Onychiuridae: QL503.O56
- Onychophora: QL448+
- Onychoteuthidae: QL430.3.O6
- Onygenaceae: QK623.O58
- Oocystaceae: QK569.O6
- Oocytin
  - Blood constituents: QP99.3.O6
- Oogenesis
  - Embryology: QL965
- Oolite: QE471.15.O5
- Oonopidae: QL458.42.O6
- Opahs: QL638.L24
- Opalescence, Critical: QC427.8.C7
- Opalinida: QL368.O7
- Opals
  - Mineralogy: QE394.O7
- Opegraphaceae: QK585.O63
- OPEN method
  - Digital computers: QA76.64
- Open source software
  - Computer software: QA76.76.O62
- Open systems
  - Statistical physics: QC174.85.O6
  - Thermodynamics: QC318.O63
- OpenCL (Computer program language): QA76.73.O213
- Operating systems
  - Computer software: QA76.77+
- Operational calculus: QA432
- Operator algebras
  - Mathematical physics: QC20.7.O65
- Operator theory
  - Functional analysis: QA329+
  - Mathematical physics: QC20.7.O66
  - Quantum field theory: QC174.52.O6
  - Quantum mechanics: QC174.17.O63
- Ophichthidae: QL638.O633
- Ophiclinidae: QL638.O634
- Ophidia: QL666.O6+
  - Paleozoology: QE862.O6
- Ophidiidae: QL638.O637
- Ophidiiformes: QL637.9.O63
- Ophioglossaceae: QK524.O7
- Ophiolites: QE462.O6
- Ophiostomataceae: QK623.O6
- Ophiuroidea: QL384.O6
  - Paleozoology: QE783.O6
- Opiliaceae: QK495.O62
- Opilioacariformes: QL458.15.O65
- Opiliona: QL458.5+
- Opiliones: QL458.5+
  - Paleozoology: QE826.O63
- Opioid peptides
  - Animal biochemistry: QP552.O65
- Opisthocomidae: QL696.G26
  - Paleozoology: QE872.O6
- Opisthocosmiidae: QL510.3.O6
- Opisthognathidae: QL638.O65
- Opisthoproctidae: QL638.O657
- Oplegnathidae: QL638.O67
- Opluridae: QL666.L265
- Opomyzidae: QL537.O7
- Opossum shrimps: QL444.M35
- Opostegidae: QL561.O7
- Opsonin
  - Immunology: QR185.8.O7
- Optic thalamus
  - Neurophysiology: QP383.5
- Optical admittance spectroscopy
  - Physics: QC454.O65
- Optical bistability: QC446.3.O65
- Optical constants
  - Physics: QC368
- Optical detectors: QC373.O59
- Optical determinations
  - Mineralogy: QE369.O6
- Optical effects
  - Semiconductor physics: QC611.6.O6
- Optical hole burning
  - Solid state physics: QC176.8.O58
- Optical illusions
  - Neurophysiology: QP495
- Optical instruments
  - Nuclear physics: QC787.O6
  - Physics: QC370.5+
- Optical interferometers
  - Astronomical instruments: QB117
- Optical losses: QC397.5.O77
- Optical measurements
  - Physics: QC367+
- Optical phase conjugation: QC446.3.O67
- Optical phenomena
  - Plasma physics: QC718.5.O6
- Optical properties
  - Cells: QH642
  - Condensed matter physics: QC173.458.O66
  - Dielectrics: QC585.7.O6
  - Gases: QC165.3
  - Liquids: QC145.4.O6
  - Physical chemistry: QD473
  - Polymers: QD381.9.O66
  - Solid state physics: QC176.8.O6
  - Thin films: QC176.84.O7
- Optical pumping: QC446.3.O68
- Optical spectroscopy
  - Physics: QC454.O66
- Optical tomography
  - Physics: QC449.5

## INDEX

- Optics
  - Physics: QC350+
- Optics, Physical: QC392+
- Optics, Quantum
  - Semiconductor physics: QC611.6.Q36
- Optoacoustic spectroscopy
  - Analytical chemistry: QD96.O6
- Optogalvanic spectroscopy
  - Physics: QC454.O68
- Orangeite
  - Petrology: QE462.O73
- Orangutans
  - Anecdotes and stories: QL795.O7
- Orb weavers (Zoology): QL458.42.A7
- Orbit determination
  - Astronomy: QB355+
- Orbital motion
  - Particle dynamics: QA853
- Orbitals, Molecular
  - Animal biochemistry: QP517.M66
- Orbiting astronomical observatories: QB500.267+
- Orbits
  - Calculation: QB355+
  - Comets: QB357
  - Meteors: QB748
- Orchidaceae: QK495.O64
- Orchids
  - Botany: QK495.O64
- Order-disorder models
  - Atomic physics: QC173.4.O73
- Order statistics
  - Mathematical statistics: QA278.7
- Ordered algebraic structures
  - Algebra: QA172+
- Ordered groups
  - Algebra: QA172.4
- Ordered sets
  - Algebra: QA171.48+
- Ordinary differential equations: QA372
- Ordovician
  - Paleobotany: QE916.5
  - Paleontology: QE726.2
  - Stratigraphy: QE660
- Ore minerals
  - Mineralogy: QE390+
  - Semiconductor physics: QC611.8.O68
- Orectolobidae: QL638.95.O7
- Orectolobiformes: QL638.94.O74
- Oreohelicidae: QL430.5.O73
- Oreosomatidae: QL638.O7
- Ores
  - Petrology: QE431.6.O7
- Orexins
  - Animal biochemistry: QP572.O74
- Organic acid salts
  - Mineralogy: QE389.7
- Organic chemistry: QD241+
  - Organic chemistry, Physical: QD476
  - Organic compounds
    - Meteorology: QC879.9.O73
  - Organic geochemistry: QE516.5
  - Organic photochemistry
    - Organic compounds: QD275
  - Organic reaction mechanisms: QD502.5
  - Organic scintillators
    - Radiation physics: QC476.77
  - Organic substances
    - Animal biochemistry: QP550+
    - Semiconductor physics: QC611.8.O7
  - Organic superconductors: QC611.98.O74
  - Organic synthesis: QD262
  - Organic thin films: QC176.9.O73
  - Organochlorine compounds
    - Effect on plants and animals: QH545.O72
  - Organometallic chemistry
    - Organic chemistry: QD410+
  - Organometallic compounds
    - Effect on plants and animals: QH545.O74
    - Organic chemistry: QD410+
    - Spectra: QC463.O7
  - Organophosphorus compounds
    - Effect on plants and animals: QH545.O76
    - Spectra: QC463.O72
  - Organosilicon compounds
    - Spectra: QC463.O73
  - Orgueil meteorite: QB756.O74
  - Oribatidae: QL458.2.O74
  - Orientation
    - Animals: QL782.5
    - Birds: QL698.85
  - Orientation in space
    - Physiology: QP443
  - Origin
    - Cosmic ray physics: QC485.8.O7
  - Origin of life
    - Biology: QH325
  - Origin of planets: QB603.O74
  - Origin of solar system: QB503
  - Origin of the earth
    - Astronomy: QB632
  - Oriolidae: QL696.P2585
  - Orion Nebula: QB855.9.O75
  - Ormyridae: QL568.O74
  - Orneodidae: QL561.A48
  - Ornithine
    - Animal biochemistry: QP563.O7
  - Ornithine decarboxylase
    - Animal biochemistry: QP613.O75
  - Ornithischia
    - Paleozoology: QE862.O65
  - Ornithological illustration: QL674.4
  - Ornithological literature: QL672.5
  - Ornithorhynchidae: QL737.M72

## INDEX

- Ornithosauria
  - Paleozoology: QE862.P7
- Orobanchaceae: QK495.O74
- Orogeny: QE621+
- Orothripidae: QL598.3.O7
- Orotic acid
  - Animal biochemistry: QP801.O74
- Orphaned wildlife, Rescue of
  - Zoology: QL83.2
- Orphnidae: QL596.O67
- Orthalicidae: QL430.5.O78
- Ortheziidae: QL527.O7
- Orthida
  - Paleozoology: QE797.O7
- Orthidae
  - Paleozoology: QE797.O75
- Orthoceratidae
  - Paleozoology: QE807.O8
- Orthogonal curves: QA567.2.O76
- Orthogonal functions
  - Mathematical physics: QC20.7.O75
  - Mathematics: QA404.5
- Orthogonal polynomials
  - Mathematical physics: QC20.7.O75
  - Mathematics: QA404.5
- Orthogonal projection on two planes: QA503+
- Orthogonal series: QA404.5
- Orthomyxoviruses
  - Virology: QR404
- Orthonectida: QL391.M4
- Orthoperidae: QL596.O7
- Orthopoxviruses
  - Virology: QR405+
- Orthoptera
  - Paleozoology: QE832.O7
  - Zoology: QL506+
- Orthorhombic systems (Crystallography): QD912
- Orthotrichaceae: QK539.O7
- Orthotrichales: QK539.O75
- Orussidae: QL568.O78
- Orycteropodidae: QL737.T8
- Oryidae: QL449.55.O7
- Oryssidae: QL568.O78
- Oryziatidae: QL638.O78
- Oscillating chemical reactions: QD502.2
- Oscillations
  - Analytic mechanics: QA865+
  - Electricity: QC660.5+
  - Plasma physics: QC718.5.W3
- Oscillations, Solar: QB539.O83
- Oscillations, Stellar: QB812
- Oscillatoriaceae: QR99.7.O82
- Osmeridae: QL638.O84
- Osmeriformes: QL637.9.O76
- Osmium
  - Chemical element: Q1 .O7
- Osmoregulation
  - Physiology: QP90.6
- Osmosis
  - Cytology: QH615
  - Phytochemistry: QK871
- Osmotic pressure
  - Physical chemistry: QD543
- Osmundaceae: QK524.O8
- Osmylidae: QL513.O8
- Osphronemidae: QL638.O87
- Ospreys: QL696.F36
- Osteichthyes
  - By family: QL638.A+
  - By order: QL637.9.A+
  - Paleozoology: QE852.O45
- Osteoglossidae: QL638.O88
- Osteoglossiformes: QL637.9.O8
- Osteology
  - Anatomy: QL821+
  - Human anatomy: QM101+
- Osteomyelitis
  - Microbiology: QR201.O8
- Osteopontin
  - Animal biochemistry: QP552.O77
- Osteostraci
  - Paleozoology: QE852.O5
- Ostomatidae: QL596.T8
- Ostraciontidae: QL638.O887
- Ostracoda: QL444.O8+
  - Paleozoology: QE817.O8
- Ostreidae: QL430.7.O9
  - Paleozoology: QE812.O8
- Ostreoida
  - Paleozoology: QE812.O87
- Ostriches
  - Zoology: QL696.S9
- Oxygenases
  - Animal biochemistry: QP603.O85
- Otariidae: QL737.P63
- Otideaceae: QK623.O75
- Otididae: QL696.G86
- Otitidae: QL537.O8
- Otoliths, Fossil: QE853
- Otters
  - Anecdotes and stories: QL795.O8
  - Zoology: QL737.C25
- Ouloterygidae: QL505.7.O8
- Outdoor recreation
  - Effect on plants and animals: QH545.O87
- Outer planets: QB659+
- Ovals
  - Plane geometry: QA483
- Ovary
  - Physiology: QP261
  - Plant anatomy: QK659
- Ovenbirds: QL696.P2464

## INDEX

- Overexpression
    - Genetics: QH450.4
  - Overhead projectors
    - Mathematics teaching aid: QA19.O9
  - Ovomucoid
    - Animal biochemistry: QP552.O94
  - Ovoviviparity
    - Physiology: QP280
  - Ovulation
    - Physiology: QP261
  - Ovum
    - Embryology: QL965
  - Ovum implantation
    - Physiology: QP275
  - Owlet frogmouths: QL696.C22
  - Owlet moths: QL561.N7
  - Owflies: QL513.A7
  - Owls
    - Zoology: QL696.S83
  - Owstoniidae: QL638.O9
  - Oxaeidae: QL568.O8
  - Oxalates
    - Mineralogy: QE389.7
    - Plant constituent: QK898.O88
  - Oxalic acid
    - Animal biochemistry: QP801.O8
  - Oxalidaceae: QK495.O98
  - Oxidases
    - Animal biochemistry: QP603.O8
    - Plant constituent: QK898.O9
  - Oxidation
    - Chemistry: QD63.O9
    - Metabolism: QP177
    - Organic chemistry: QD281.O9
  - Oxidation-reduction
    - Photochemistry: QD716.O95
  - Oxide electrodes: QD572.O85
  - Oxides
    - Aliphatic compounds: QD305.E7
    - Aromatic compounds: QD341.E7
    - Mineralogy: QE389.5
    - Spectra: QC463.E7
  - Oxidoreductases
    - Animal biochemistry: QP602+
  - Oximes
    - Aliphatic compounds: QD305.K2
  - Oximetry
    - Analytical chemistry: QD79.O8
  - Oxudercidae: QL638.G7
  - Oxybelidae: QL568.O9
  - Oxychirotidae: QL561.O9
  - Oxydesmidae: QL449.65.O95
  - Oxygen
    - Bacterial physiology: QR97.O8
    - Blood constituents: QP99.3.O9
    - Chemical element: Q1 .O1
    - Electric discharge: QC711.6.O9
  - Oxygen
    - Plant constituent: QK898.O92
  - Oxygen and metabolism: QP177
  - Oxygen electrodes: QD572.O88
  - Oxygen salts
    - Mineralogy: QE389.6+
  - Oxygen uptake, Maximal
    - Physiology: QP120.M39
  - Oxyhaloidae: QL505.7.O9
  - Oxymonadida: QL368.O9
  - Oxyopidae: QL458.42.O9
  - Oxyruncidae: QL696.P259
  - Oxysalts
    - Inorganic chemistry: QD194
  - Oxysterols
    - Animal biochemistry: QP752.O89
  - Oxytenididae: QL561.O93
  - Oxytocin
    - Animal biochemistry: QP572.O9
  - Oystercatchers: QL696.C452
  - Oysters: QL430.7.O9
  - Ozone
    - Effect on plants and animals: QH545.O94
  - Ozone layer
    - Meteorology: QC881.2.O9
  - Ozone layer depletion
    - Meteorology: QC879.7+
  - Ozonization
    - Organic chemistry: QD281.O95
  - Ozonolysis
    - Organic chemistry: QD281.O95
  - Ozonosphere
    - Meteorology: QC881.2.O9
- P
- p-adic analysis
    - Mathematical physics: QC20.7.P23
  - p53 protein
    - Animal biochemistry: QP552.P25
  - Pacaranas: QL737.R646
  - Pacas: QL737.R623
  - Pachybolidae: QL449.65.P18
  - Pachycephalidae: QL696.P2595
  - Pachyneuridae: QL537.P3
  - Pachypodidae: QL596.P13
  - packetC (Computer program language): QA76.73.P32
  - Packing
    - Algebra: QA166.7
  - Paddlefishes: QL638.P755
  - Padé approximant
    - Mathematical physics: QC20.7.P3
  - Paeoniaceae: QK495.P15
  - Paeromopidae: QL449.65.P22
  - Pain
    - Neurophysiology: QP401
    - Physiology: QP451.4

## INDEX

- Painted snipes: QL696.C477
- Paired and multiple comparisons
  - Mathematical statistics: QA278.4
- Palacheite
  - Mineralogy: QE391.B75
- Palaeonisciformes
  - Paleozoology: QE852.P3
- Palaeosetidae: QL561.P17
- Palaephatidae: QL561.P18
- Paleoart: QE714.2
- Paleobiogeography: QE721.2.P24
- Paleobiology: QE719.8
- Paleobiology, Evolutionary: QE721.2.E85
- Paleobotany: QE901+
- Paleoceanography: QE39.5.P25
- Paleocene
  - Paleobotany: QE927
  - Paleontology: QE736.8
  - Stratigraphy: QE692
- Paleoclimatology
  - Meteorology: QC884+
- Paleoecology
  - Geology: QE720+
- Paleoecology, Evolutionary: QE721.2.E87
- Paleogene
  - Paleobotany: QE926.5+
  - Paleontology: QE736.5+
  - Stratigraphy: QE691.5+
- Paleogeography: QE501.4.P3
- Paleogeophysics
  - Geophysics: QC809.P3
- Paleohydrology: QE39.5.P27
- Paleolimnology: QE39.5.P3
- Paleomagnetism
  - Geology: QE501.4.P35
- Paleontological excavations: QE721.2.P26
- Paleontological illustration: QE714.2
- Paleontology: QE701+
- Paleontology as a profession: QE714.7
- Paleopedology: QE473
- Paleoseismology: QE539.2.P34
- Paleotemperatures: QE721.2.P3
- Paleoweathering
  - Geology: QE570
- Paleozoic
  - Paleobotany: QE915+
  - Paleontology: QE725+
  - Stratigraphy: QE654+
- Paleozoology: QE760.8+
- Palingeniidae: QL505.3.P3
- Palladium
  - Chemical element: Q1 .P4
- Pallopteridae: QL537.P34
- Palm
  - Botany: QK495.P17
- Palm oil
  - Animal biochemistry: QP752.P35
- Palmae: QK495.P17
- Palmariaceae: QK569.P25
- Palmchats: QL696.P2435
- Palpigradi: QL458.55+
- Palpigradida: QL458.55+
- Palpimanidae: QL458.42.P34
- Palygorskite
  - Mineralogy: QE391.P34
- Palynology
  - Paleobotany: QE993+
  - Perianth: QK658
- Pamphagidae: QL508.P34
- Pamphiliidae: QL568.P3
- Panama-hat palm
  - Botany: QK495.C975
- Panchaetothripidae: QL598.3.P3
- Panchloridae: QL505.7.P33
- Pancreas
  - Anatomy: QL866
  - Human anatomy: QM353
  - Physiology: QP188.P26
- Pancreatic juice
  - Physiology: QP195
- Pandaceae: QK495.P175
- Pandanaceae: QK495.P18
- Pandas
  - Anecdotes and stories: QL795.P18
- Pandionidae: QL696.F36
- Panesthiidae: QL505.7.P34
- Pangaea: QE511.5
- Pangamic acid
  - Animal biochemistry: QP772.P3
- Pangasiidae: QL638.P254
- Pangolins: QL737.P5
- Pannariaceae: QK585.P17
- Panorpidae: QL598.7.P3
- Pantethine
  - Animal biochemistry: QP801.P28
- Panthers
  - Anecdotes and stories: QL795.P2
- Pantodontidae: QL638.P258
- Pantophthalmidae: QL537.P35
- Pantopoda: QL447
- Pantothenic acid
  - Animal biochemistry: QP772.P35
- Pantotheria
  - Paleozoology: QE882.P3
- Papain
  - Animal biochemistry: QP609.P3
- Papaveraceae: QK495.P22
- Papaya
  - Botany: QK495.C1997
- Paper chromatography
  - Analytical chemistry: QD79.C46
- Paper work
  - Mathematics teaching aid: QA19.P34
- Papilionidae: QL561.P2



## INDEX

- Papillomavirus diseases
  - Microbiology: QR201.P26
- Papillomavirus vaccines: QR189.5.P36
- Papillomaviruses
  - Virology: QR406+
- Paracrinoidea
  - Paleozoology: QE783.P3
- Paradisaeidae: QL696.P26
- Paradox
  - Philosophy of science: Q175.32.P37
  - Physics: QC6.4.P37
- Paradoxornithidae: QL696.P2612
- Paradoxsomatidae: QL449.65.P27
- Paraffins
  - Aliphatic compounds: QD305.H6
- Paraganglia
  - Neurophysiology: QP368.8
- Paraganglia, Aortic
  - Physiology: QP188.A6
- Paragenesis
  - Mineralogy: QE364.2.P3
- Paraiulidae: QL449.65.P273
- Paralepididae: QL638.P3
- Paralichthyidae: QL638.P313
- Parallax
  - Astronomy: QB159
  - Moon: QB583
- Parallax, Annual
  - Spherical astronomy: QB167
- Parallax, Stellar: QB813
- Parallel processing
  - Digital computers: QA76.58
- Parallel programming
  - Digital computers: QA76.642
- Parallel projection
  - Descriptive geometry: QA502+
- Parallel scheduling: QA76.5295.P37
- Paramagnetism
  - Physics: QC762.9+
- Paramos
  - Botany: QK938.P3
- Paramyxoviruses
  - Virology: QR404.15+
- Parandridae: QL596.P17
- Paraoxonase
  - Animal biochemistry: QP609.P35
- Parasites
  - Plant ecology: QK918
- Parasitic birds
  - Zoology: QL677.79.P37
- Parasitic diseases
  - Microbiology: QR201.P27
- Parasitic insects: QL496.12
- Parasitic wood wasps: QL568.O78
- Parasitidae: QL458.2.P3
- Parasitiformes: QL458.15.P37
- Parasitism
  - Ecology: QH547
  - Insects: QL496.12
- Parasitoids
  - Insects: QL496.12
- Parasitology
  - Animal behavior: QL757
- Parasitology, Diagnostic
  - Microbiology: QR255
- Parasympathetic nervous system
  - Neurophysiology: QP368.7
- Parathyroid gland
  - Physiology: QP188.P3
- Parathyroid hormone
  - Animal biochemistry: QP572.P3
- Parathyroid hormone-related protein
  - Animal biochemistry: QP572.P33
- Paratropidae: QL458.42.P37
- Paratuberculosis
  - Microbiology: QR201.P28
- Paratyphoid fever
  - Microbiology: QR201.P3
- Parazenidae: QL638.P315
- Parental behavior
  - Animals: QL762
- Paridae: QL696.P2615
- Parietal lobe
  - Neurophysiology: QP382.P3
- Parisolabidae: QL510.3.P3
- Parkeriaceae: QK524.P3
- Parmeliaceae: QK585.P2
- Parodontidae: QL638.P316
- Paropiidae: QL527.P3
- Parrotbills: QL696.P2612
- Parrotfishes: QL638.S3
- Parrots
  - Zoology: QL696.P7
- Parsley
  - Botany: QK495.U48
- Parthenogenesis
  - Sexual reproduction: QH487
- Partial differential equations
  - Quantum mechanics: QC174.17.D54
  - Topology: QA614.9+
- Partial differential equations (first order): QA374
- Partial differential equations (second and higher orders): QA377
- Partial differential operators
  - Functional analysis: QA329.42
- Partially ordered sets
  - Algebra: QA171.485
- Particle acceleration
  - Nuclear astrophysics: QB464.15
- Particle accelerators
  - Nuclear physics: QC787.P3
- Particle analyzers
  - Nuclear physics: QC787.P34

## INDEX

- Particle beams
  - Elementary particle physics: QC793.3.B4
- Particle dynamics analysis
  - Optical measurements: QC367.3.P37
- Particle physics: QC770+
- Partitions
  - Algebra: QA165
- Partridges
  - Zoology: QL696.G27
- Partulidae: QL430.5.P15
- Parturition
  - Physiology: QP285
- Parvovirus infections
  - Microbiology: QR201.P33
- Parvoviruses
  - Virology: QR408+
- Pasauridae: QL458.42.P5
- Passalidae: QL596.P2
- Passandridae: QL596.P25
- Passeridae: QL696.P262
- Passeriformes: QL696.P2+
  - Paleozoology: QE872.P2
- Passifloraceae: QK495.P28
- Passionflower
  - Botany: QK495.P28
- Pasteurellaceae: QR82.P25
- Pastures
  - Botany: QK938.M4
- Pataecidae: QL638.P318
- Patellariaceae: QK623.P5
- Patellaric acid
  - Plant constituent: QK898.P2
- Patellidae: QL430.5.P18
- Paterinidae
  - Paleozoology: QE797.P3
- Path analysis
  - Mathematical statistics: QA278.3
- Path integrals
  - Quantum field theory: QC174.52.P37
  - Quantum mechanics: QC174.17.P27
- Pathogenic action
  - Microbiology: QR175
- Pathogenic fungi
  - Microbiology: QR245+
- Pathogenic microorganisms (specific): QR201.A+
- Pathology
  - Cells: QH671
- Paths
  - Graph theory: QA166.22
- Paths and cycles
  - Graph theory: QA166.22
- Pattern formation
  - Plant physiology: QK731+
  - Science: Q172.5.C45
- Pattern recognition systems
  - Artificial intelligence: Q337.5
- Patterns, Software
  - Computer software: QA76.76.P37
- Patulin
  - Plant constituent: QK898.P3
- Paucituberculata: QL737.M46+
  - Paleozoology: QE882.M37
- Pauli exclusion principle
  - Quantum mechanics: QC174.17.P3
- Pauropoda: QL449.7+
- Pauropodidae: QL449.75.P3
- Pawpaw
  - Botany: QK495.A6
- Paxillin
  - Animal biochemistry: QP552.P39
- Peaceful uses of atomic energy: QC792.7
- Peafowl
  - Anecdotes and stories: QL795.P43
  - Zoology: QL696.G27
- Pearl oysters: QL430.7.P77
- Pearl perches: QL638.G55
- Pearleyes: QL638.S374
- Pearlfishes
  - Zoology: QL638.C26
- Peat bogs
  - Botany: QK938.P42
- Peatlands
  - Botany: QK938.P42
- Peccaries: QL737.U59
  - Anecdotes and stories: QL795.P28
- Pecoraite
  - Mineralogy: QE391.P44
- Pectin
  - Plant constituent: QK898.P4
- Pectinacea
  - Paleozoology: QE812.P38
- Pectinadae
  - Paleozoology: QE812.P4
- Pectinase
  - Animal biochemistry: QP609.P6
- Pectinidae: QL430.7.P3
- Pectins
  - Animal biochemistry: QP702.P4
- Peculiar stars: QB843.P42
- Pedaliaceae: QK495.P42
- Pedetidae: QL737.R672
- Pedicellinidae: QL400.5.P4
- Pediculidae: QL570.3.P4
- Pedilidae: QL596.P3
- Pedionomidae: QL696.C465
- Pedipalpi
  - Paleozoology: QE826.P3
- Pegasidae: QL638.P32
- Pegmatites: QE462.P4
- Pegmatoids: QE462.P43
- Pelecanidae: QL696.P47
- Pelecaniformes: QL696.P4+
- Pelecanoididae: QL696.P66

## INDEX

- Peleciniidae: QL568.P43
- Pelecypoda: QL430.6+
  - Paleozoology: QE811+
- Pelicaniformes
  - Paleozoology: QE872.P4
- Pelicans
  - Zoology: QL696.P47
- Pellegra preventive factor
  - Animal biochemistry: QP772.N5
- Pellet fusion: QC791.775.P44
- Pelobatidae: QL668.E262
  - Paleozoology: QE868.P4
- Pelodryadidae: QL668.E2626
- Pelodytidae: QL668.E263
- Pelomedusidae: QL666.C57
- Pelonemataceae: QR82.P44
- Peloplocaceae: QR82.P45
- Peloriidae: QL527.P44
- Peltier effect: QC621+
- Peltigeraceae: QK585.P34
- Peltoperlidae: QL530.3.P44
- Pelvis
  - Human anatomy: QM115
- Pelycosauria
  - Paleozoology: QE862.P3
- Pempheridae: QL638.P34
- Pemphredonidae: QL568.S7
- Pen-based computers: QA76.89
- Penaeaceae: QK495.P43
- Pendulum
  - Rigid dynamics: QA862.P4
- Penguins
  - Zoology: QL696.S473
- Penicillin
  - Animal biochemistry: QP801.P36
  - Organic chemistry: QD377.P4
- Peniophoraceae: QK629.P55
- Pennsylvanian
  - Paleobotany: QE919.5
  - Paleontology: QE729.3
  - Stratigraphy: QE673
- Pentacerotidae: QL638.P35
- Pentachlorophenol
  - Effect on plants: QK753.P37
  - Effect on plants and animals: QH545.P37
- Pentamerida
  - Paleozoology: QE797.P39
- Pentameridae
  - Paleozoology: QE797.P4
- Pentaphragmataceae: QK495.P44
- Pentaphylacaceae: QK495.P445
- Pentapodidae: QL638.P357
- Pentastomida: QL447.3
  - Paleozoology: QE823.P4
- Pentatomidae: QL523.P5
- Penthaleidae: QL458.2.P35
- Penthimiidae: QL527.P45
- Pentoses
  - Animal biochemistry: QP702.P45
- Pentoxifylline
  - Animal biochemistry: QP801.P374
- Pepper
  - Botany: QK495.P67
- Peppershrikes: QL696.P239
- Pepsin
  - Animal biochemistry: QP609.P4
- Peptidases
  - Animal biochemistry: QP609.P45
- Peptide hormones
  - Animal biochemistry: QP572.P4
- Peptides
  - Animal biochemistry: QP552.P4
  - Biochemistry: QD431+
  - Microbial metabolism: QR92.P37
- Peptidoglycans
  - Animal biochemistry: QP702.P47
  - Microbial metabolism: QR92.P39
- Peptidylprolyl isomerase
  - Animal biochemistry: QP616.P46
- Peptococcaceae: QR82.P47
- Peptones
  - Animal biochemistry: QP552.P45
- Peramelemorphia: QL737.M47+
  - Paleozoology: QE882.M38
- Peramelidae: QL737.M475
- Perceptron theory: Q327
- Perceptual process
  - Physiology: QP441+
- Perch
  - Laboratory manuals: QL813.F57
- Perches
  - Zoology: QL638.P4
- Percichthyidae: QL638.P358
- Percidae: QL638.P4
- Perciformes: QL637.9.P46
  - Paleozoology: QE852.P4
- Percolation
  - Chemistry: QD63.P4
  - Statistical physics: QC174.85.P45
- Percophididae: QL638.P464
- Percopsidae: QL638.P468
- Percopsiformes: QL637.9.P47
- Perfect graphs
  - Algebra: QA166.16
- Perfluorinated chemicals
  - Effect on plants and animals: QH545.P38
- Pergidae: QL568.P474
- Perianth: QK655+
- Periaqueductal gray matter
  - Neurophysiology: QP378.4
- Pericardium
  - Human anatomy: QM181
- Pericomidae: QL510.3.P4
- Peridinales: QK569.P33

## INDEX

- Peridiscaceae: QK495.P446
- Peridotite: QE462.P45
- Perilampidae: QL568.P475
- Perineum
  - Human anatomy: QM431
- Periodic comets: QB723.A+
- Periodic functions
  - Analysis: QA353.P4
- Periodic law
  - Physical chemistry: QD467
- Periodicity
  - Animal behavior: QL753+
  - Biology: QH527
  - Developmental physiology: QP84.6
  - Effect on plants: QK761
  - Geology: QE33.2.P47
  - Science: Q176
  - Seismology: QE539.2.P4
- Peripatidae: QL448.55.P47
- Peripatopsidae: QL448.55.P48
- Peripheral circulation
  - Physiology: QP108.5.P45
- Peripheral nervous system
  - Anatomy: QL939
  - Human anatomy: QM471
  - Neurophysiology: QP365.5+
- Peripheral vision
  - Neurophysiology: QP494
- Periphyton
  - Freshwater biology: QH96.8.P43
- Peripsocidae: QL515.2.P4
- Periscolidae: QL537.P4
- Perisphaeriidae: QL505.7.P4
- Perissodactyla: QL737.U6+
  - Paleozoology: QE882.U6
- Peritoneum
  - Anatomy: QL864
  - Human anatomy: QM367
  - Physiology: QP157
- Peritonitis
  - Microbiology: QR201.P4
- Peritricha: QL368.A22
- Peritrichida: QL368.P4
- Peritrophic membranes
  - Anatomy: QL863.5
- Perlidae: QL530.3.P47
- Perlodidae: QL530.3.P48
- Permaculture plants
  - Botany: QK98.4
- Permafrost forests: QH541.5.P47
- Permanent magnets: QC757.9
- Permeability
  - Magnetism: QC754.2.P4
  - Polymers: QD381.9.P45
- Permian
  - Paleobotany: QE920
  - Paleontology: QE730
- Permian
  - Stratigraphy: QE674
- Permo-Carboniferous
  - Stratigraphy: QE673.5
- Permutation groups
  - Algebra: QA175
- Permutations
  - Algebra: QA165
- Peronedysidae: QL638.P47
- Peronosporaceae: QK621.P45
- Peronosporales: QK621.P47
- Perovskite
  - Mineralogy: QE391.P47
- Peroxidase
  - Animal biochemistry: QP603.P4
  - Plant constituent: QK898.P47
- Peroxides
  - Meteorology: QC879.9.P47
- Peroxisomes
  - Cytology: QH603.P47
- Persistent pollutants
  - Effect on plants and animals: QH545.P39
- Personal equation
  - Astronomy: QB153
- Personality
  - Neurophysiology: QP402
- Personidae: QL430.5.P2
- Perspective
  - Central projection
  - Descriptive geometry: QA515
- Perturbation
  - Mathematical physics: QC20.7.P47
  - Quantum mechanics: QC174.17.P45
- Perturbations
  - Theoretical astronomy: QB361+
- Pertusariaceae: QK585.P37
- Pertussis toxin
  - Animal biochemistry: QP632.P47
- Pertussis vaccines: QR189.5.P46
- Pesticides
  - Animal biochemistry: QP801.P38
  - Bacterial physiology: QR97.P47
  - Microbial degradation: QR135.5.P47
  - Physiological effect: QP82.2.P4
- Petaflops computers: QA76.885
- Petalite
  - Mineralogy: QE391.P48
- Petaluridae: QL520.3.P4
- Petauridae: QL737.M373
- Petauristidae: QL537.P42
- Petriidae: QL596.P38
- Petrofabric analysis: QE440
- Petrofabric diagrams: QE440
- Petrogenesis
  - Petrology: QE431.6.P4
- Petroleum
  - Effect on plants: QK753.P4

## INDEX

- Petroleum
  - Microbiology: QR53.5.P48
- Petrology
  - Geology: QE420+
- Petrology, X-ray: QE435
- Petromuridae: QL737.R674
- Petromyzontidae: QL638.25.P48
- Petromyzontiformes: QL638.2+
- Peyssonneliaceae: QK569.P35
- Pezizaceae: QK623.P5
- Pezizales: QK623.P53
- Pfaffian problem
  - Differentiable manifolds
    - Topology: QA614.46
- Pfaffian systems
  - Differentiable manifolds
    - Topology: QA614.46
- Pfiesteriaceae: QK569.P39
- Phacidiaceae: QK623.P6
- Phacidiales: QK623.P62
- Phacopida
  - Paleozoology: QE823.P5
- Phaenoccephalidae: QL596.P4
- Phaenomeridae: QL596.P42
- Phaeodactylaceae: QK569.P47
- Phaeophyta: QK569.P5
- Phaethontidae: QL696.P474
- Phagocytes
  - Immunology: QR185.8.P45
- Phagocytosis
  - Antigen-antibody reactions: QR187.P4
- Phalacridae: QL596.P46
- Phalacrocoracidae: QL696.P4745
- Phalangeridae: QL737.M38
- Phalangida
  - Paleozoology: QE826.O63
- Phalangiida: QL458.5+
- Phalangiidae: QL458.52.P45
- Phalangodidae: QL458.52.P46
- Phalaropes: QL696.C48
- Phalaropodidae: QL696.C48
- Phallaceae: QK629.P6
- Phallales: QK629.P63
- Phallostethidae: QL638.P5
- Phaloniidae: QL561.C57
- Phanerochaetaceae: QK629.P64
- Phanerogams: QK474.8+
- Phantom midges: QL537.C43
- Pharmaceutical microbiology: QR46.5
- Pharynx
  - Anatomy: QL861
  - Human anatomy: QM331
  - Physiology: QP146+
- Phascolarctidae: QL737.M384
- Phase conjugation, Optical: QC446.3.O67
- Phase-contrast microscopes: QH212.P5
- Phase rule
  - Physical chemistry: QD503
- Phase space
  - Statistical physics: QC174.85.P48
- Phase transformations
  - Cosmology: QB991.P45
  - Solid state physics: QC176.8.P45
  - Statistical physics: QC175.16.P5
- Phases of the moon: QB588
- Phasianellidae: QL430.5.P23
- Phasianidae: QL696.G27
- Phasiidae: QL537.P44
- Phasmatoptera
  - Paleozoology: QE832.P45
  - Zoology: QL509.5+
- Phasmida
  - Zoology: QL509.5+
- Phasmodidae: QL508.P53
- Pheasants
  - Zoology: QL696.G27
- Phenacoleachiidae: QL527.P53
- Phenanthrene
  - Organic chemistry: QD395
- Phenethylamines
  - Animal biochemistry: QP801.P39
- Phenetics
  - Evolution: QH408.5
- Phenogodidae: QL596.P47
- Phenol oxidase
  - Animal biochemistry: QP603.P43
- Phenology
  - Ecology: QH544
  - Plant ecology: QK914
- Phenols
  - Animal biochemistry: QP801.P4
  - Aromatic compounds: QD341.P5
  - Microbial metabolism: QR92.P4
  - Plant constituent: QK898.P57
- Phenylalanine
  - Animal biochemistry: QP562.P5
- Phenylalanine ammonia lyase
  - Animal biochemistry: QP613.P54
- Pheromones
  - Animal biochemistry: QP572.P47
- Philanthidae: QL568.P5
- Philepittidae: QL696.P2625
- Phillipsiidae
  - Paleozoology: QE823.P53
- Philobryidae: QL430.7.P48
- Philodromidae: QL458.42.P39
- Philomycidae: QL430.5.P25
- Philopotamidae: QL518.P45
- Phlopteridae: QL540.3.P4
- Philosopher's stone: QD25
- Philosophy
  - Computer science: QA76.167
  - Mathematics: QA8+

## INDEX

- Philosophy
  - Natural history: QH14.3
  - Science: Q174+
- Philosophy of biology: QH331
- Philydraceae: QK495.P45
- Phisthobranchia
  - Paleozoology: QE809.O6
- Phlaeothripidae: QL598.3.P45
- Phloeothripidae: QL598.3.P5
- Phlogiston
  - Chemistry: QD39.3.P45
- Phlox
  - Botany: QK495.P77
- Phocidae: QL737.P64
- Phocoenidae: QL737.C434
- Phoenicopteridae: QL696.C56
- Phoenicopteriformes: QL696.C56
- Phoeniculidae: QL696.U66
- Pholadidae: QL430.7.P5
  - Paleozoology: QE812.P48
- Pholadomyoidea
  - Paleozoology: QE812.P5
- Pholcidae: QL458.42.P4
- Pholidichthyidae: QL638.P55
- Pholididae: QL638.P56
- Pholidorphoriformes
  - Paleozoology: QE852.P45
- Pholidota: QL737.P4+
  - Paleozoology: QE882.P45
- Phonic wheel: QC544.P5
- Phonons
  - Solid state physics: QC176.8.P5
- Phoridae: QL537.P46
- Phoronida: QL391.P5
- Phosphatases
  - Animal biochemistry: QP609.P5
- Phosphate rock: QE471.15.P48
- Phosphates
  - Microbial metabolism: QR92.P45
  - Mineralogy: QE389.64
  - Spectra: QC464.P44
- Phosphatidate phosphatase
  - Animal biochemistry: QP609.P52
- Phosphatides
  - Animal biochemistry: QP752.P53
- Phosphodiesterase
  - Animal biochemistry: QP609.P53
- Phosphofructokinase
  - Animal biochemistry: QP606.P53
- Phosphoinositides
  - Animal biochemistry: QP752.P52
- Phospholipase
  - Animal biochemistry: QP609.P55
- Phospholipase A2
  - Animal biochemistry: QP609.P553
- Phospholipase C
  - Animal biochemistry: QP609.P555
- Phospholipid antibodies
  - Immunology: QR186.83.P48
- Phospholipids
  - Animal biochemistry: QP752.P53
- Phosphonic acids
  - Animal biochemistry: QP801.P56
- Phosphoprotein phosphatases
  - Animal biochemistry: QP609.P56
- Phosphoproteins
  - Animal biochemistry: QP552.P5
  - Plant constituents: QK898.P59
- Phosphopyruvate hydratase: QP613.E56
- Phosphorescence
  - Radiation physics: QC477.8+
- Phosphorimetry
  - Analytical chemistry: QD79.P4
- Phosphorite: QE471.15.P48
- Phosphors
  - Radiation physics: QC476.7+
- Phosphorus
  - Chemical element: Q1 .P1
  - Effect on plants: QK753.P48
  - Effect on plants and animals: QH545.P5
  - Plant constituent: QK898.P6
- Phosphorus compounds
  - Spectra: QC464.P46
- Phosphorus derivatives
  - Aliphatic compounds: QD305.P46
- Phosphorus organic compounds
  - Animal biochemistry: QP801.P63
- Phosphorylation
  - Organic chemistry: QD281.P46
- Phosphotransferases
  - Animal biochemistry: QP606.P55
- Photoabsorption
  - Electric waves: QC665.P5
- Photoaffinity labeling
  - Animal biochemistry: QP519.9.P48
- Photobiochemistry
  - Animal biochemistry: QP517.P45
- Photobiology
  - Biology: QH515
- Photocatalysis
  - Photochemistry: QD716.P45
- Photochemistry: QD701+
  - Polymers: QD381.9.P56
- Photochromic polymers
  - Organic chemistry: QD382.P45
- Photochromism
  - Photochemistry: QD716.P47
- Photoconductivity
  - Electricity: QC612.P5
- Photodetachment threshold spectroscopy
  - Physics: QC454.P46
- Photodissociation
  - Photochemistry: QD716.P48

## INDEX

- Photoelectric cells
  - Electric discharge: QC715.4
  - Physics: QC715+
- Photoelectricity
  - Physics: QC715+
- Photoelectrochemistry: QD578
- Photoelectromagnetic effects
  - Semiconductor physics: QC611.6.P52
- Photoelectron spectroscopy
  - Analytical chemistry: QD96.P5
  - Physics: QC454.P48
- Photoemission: QC715.15
- Photoferroelectric effect: QC715.17
- Photofission
  - Nuclear fission: QC790.4.P4
- Photographs of earth from space: QB637
- Photographs of the moon
  - Descriptive astronomy: QB595
- Photographs of the planets
  - Descriptive astronomy: QB605
- Photography
  - Aeronomy: QC879.55.P4
  - Auroras: QC972.P4
  - Meteorology: QC866.5.P4
- Photoionization
  - Electric discharge: QC702.7.P48
  - Photochemistry: QD716.P48
- Photoluminescence
  - Radiation physics: QC476.8+
- Photomagnetic effect
  - Magnetism: QC754.2.P45
- Photometric catalogs
  - Stars: QB815
  - Variable stars: QB836
- Photometry
  - Analytical chemistry: QD79.P46
  - Optics: QC391
  - Organic chemistry: QD272.P5
  - Quantitative analysis: QD117.P5
- Photomicrography
  - Microscopy: QH251
  - Plant anatomy: QK673
- Photon detectors
  - Nuclear physics: QC787.P46
- Photonic crystals: QD924
- Photons
  - Elementary particle physics: QC793.5.P42+
- Photonuclear interactions
  - Nuclear physics: QC794.8.P4
- Photoperiodism: QK761
- Photopolymerization
  - Photochemistry: QD716.P5
- Photopolymers
  - Organic chemistry: QD382.P45
- Photoreceptors: QP447.8
- Photoreceptors, Encephalic: QP384.3
- Photosynthesis
  - Bacterial physiology: QR88.5
  - Phytochemistry: QK882
- Photosynthesis determination
  - Marine biology: QH91.57.P4
- Photosynthetic bacteria: QR88.5
- Photothermal spectroscopy
  - Analytical chemistry: QD96.P54
- Phototropism
  - Physiology: QP310.P5
  - Plant physiology: QK776
- Photovoltaic effect
  - Electric discharge: QC715.4
- PHP (Computer program language): QA76.73.P224
- Phractolaemidae: QL638.P57
- Phryganeidae: QL518.P47
- Phrynichida: QL458.3+
- Phrynichidae: QL458.32.P56
- Phrynidae: QL458.32.P57
- Phrynomeridae: QL668.E264
- Phrynosomatidae: QL666.L267
- Phthaleins
  - Organic chemistry: QD441
- Phthiaceae: QK621.P9
- Phthidae: QL596.P98
- Phthiriidae: QL570.3.P5
- Phycidae: QL638.P58
- Phycitidae: QL561.P9
- Phycobiliproteins
  - Plant constituent: QK898.P64
- Phycomycetes: QK621.A1+
- Phyllachoraceae: QK623.P63
- Phyllidiidae: QL430.5.P33
- Phylliroidae: QL430.5.P35
- Phyllite: QE475.P47
- Phyllocladaceae: QK494.5.P58
- Phyllocnistidae: QL561.P48
- Phyllodromiidae: QL505.7.P45
- Phyllophoraceae: QK569.P54
- Phyllopoda
  - Paleozoology: QE817.B7
- Phyllostictaceae: QK625.S5
- Phyllostictales: QK625.S6
- Phyllostomidae: QL737.C57
- Phylloxeridae: QL527.P56
- Phylogeny
  - Immune system: QR184.6
  - Insects: QL468.7
  - Mollusca: QL406.7
  - Plants: QK989
  - Zoology: QL438.5
- Phylogeography: QH84+
- Phymatidae: QL523.P53
- Phymaceae: QK495.P453
- Physaraceae: QK635.P5
- Physciaceae: QK585.P45
- Physeteridae: QL737.C435

## INDEX

- Physical agents
  - Effect on cells: QH650+
- Physical agents affecting plants
  - Plant physiology: QK754+
- Physical biochemistry: QD476.2
  - Animal biochemistry: QP517.P49
- Physical chemistry: QD450+
- Physical conditions of the solar system: QB505
- Physical education
  - Mathematics teaching aid: QA20.P49
- Physical inorganic chemistry: QD475
- Physical laws of science
  - Philosophy of science: Q175.32.P39
- Physical measurements: QC39
- Physical optics: QC392+
- Physical organic chemistry: QD476
- Physical properties
  - Cells: QH611+
  - Determinative mineralogy: QE369.P49
  - Petrology: QE431.6.P5
- Physical properties of crystals
  - Crystallography: QD931+
- Physics: QC1+
- Physics, Atmospheric: QC851+
- Physics literature: QC5.45
- Physics, Solid state: QC176+
- Physics, Statistical: QC174.7+
- Physics, Superfluid: QC175.4+
- Physidae: QL430.5.P37
- Physiographic divisions
  - Biogeography: QH84.8+
- Physiological acoustics
  - Physiology: QP460+
- Physiological apparatus: QP55
- Physiological properties
  - Cells: QH631+
- Physiological psychology: QP360+
- Physiology: QP1+
  - Amphibians: QL669.2
  - Apterygota: QL504.2
  - Arachnida: QL459.2
  - Arthropoda: QL434.72
  - Birds: QL698
  - Blattaria: QL505.82
  - Brachiopoda: QL395.95
  - Bryozoa: QL399.2
  - Coelenterata: QL378.2
  - Coleoptera: QL597.2
  - Crustacea: QL445.2
  - Ctenophora: QL380.8
  - Dermaptera: QL510.42
  - Diptera: QL538.2
  - Echinodermata: QL385.2
  - Embioptera: QL539.42
  - Ephemeroptera: QL505.42
  - Fishes: QL639.1
  - Fungi: QK601
  - Physiology
    - Hemiptera: QL524.2
    - Homoptera: QL528.2
    - Hornworts: QK563.77
    - Hymenoptera: QL569.2
    - Insects: QL495+
    - Invertebrates: QL364
    - Isoptera: QL529.42
    - Lepidoptera: QL562.2
    - Lichens: QK581
    - Mallophaga: QL540.42
    - Mammals: QL739.2+
    - Mantodea: QL505.96
    - Mecoptera: QL598.82
    - Megaloptera: QL514.82
    - Mollusca: QL431.2
    - Myriapoda: QL449.92
    - Neuroptera: QL514.2
    - Odonata: QL520.42
    - Orthoptera: QL509.2
    - Plecoptera: QL530.42
    - Porifera: QL374.2
    - Protozoa: QL369.2
    - Raphidioptera: QL514.96
    - Reptiles: QL669.2
    - Siphonaptera: QL599.82
    - Strepsiptera: QL599.42
    - Thysanoptera: QL598.42
    - Trichoptera: QL519.2
    - Worms: QL394
  - Physiology, Comparative: QP33
  - Physiology, Experimental: QP42+
  - Physiology, Human: QP34+
  - Physiology of work: QP309
  - Phytalmiidae: QL537.P49
  - Phytic acid
    - Animal biochemistry: QP801.P634
  - Phytin
    - Plant constituent: QK898.P65
  - Phytoalexins
    - Plant constituent: QK898.P66
  - Phytochemicals: QK861+
    - Animal biochemistry: QP801.P636
  - Phytochrome
    - Plant constituent: QK898.P67
  - Phytoestrogens
    - Animal biochemistry: QP572.P48
  - Phytogeography: QK101+
  - Phytolaccaceae: QK495.P454
  - Phytoliths
    - Plant constituent: QK898.P677
  - Phytomastigia: QL368.A12
  - Phytomelanes
    - Plant constituent: QK898.P68
  - Phytomonadida: QL368.V6
  - Phytopathogenic fungi: QK604.2.P45



## INDEX

- Phytoplankton
  - Plant ecology: QK933+
- Phytophthorales
  - Zoology: QL458.2.P37
- Phytosauria
  - Paleozoology: QE862.P35
- Phytoseiidae: QL458.2.P4
- Phytosociology: QK911
- Phytotomidae: QL696.P2629
- Phytotrons: QK715.5
- Picidae: QL696.P56
- Piciformes: QL696.P5+
  - Paleozoology: QE872.P5
- Pickeralweed
  - Botany: QK495.P783
- Pickeringite
  - Mineralogy: QE391.P5
- Picodnaviruses
  - Virology: QR408+
- Picornavirus infections
  - Microbiology: QR201.P45
- Picornaviruses
  - Virology: QR410+
- Picrodendraceae: QK495.P5
- Picture books
  - Mathematics teaching aid: QA19.P53
- Pieridae: QL561.P5
- Piesmididae: QL523.P55
- Piezoelectricity
  - Physics: QC595.5
- Pigeons
  - Zoology: QL696.C63
- Pigment
  - Human histology: QM559
- Pigment cells
  - Cytology: QH607.2.C47
- Pigments
  - Animal biochemistry: QP670+
  - Bacteria: QR76.7
  - Blood constituents: QP99.3.P5
  - Plant constituent: QK898.P7
- Pigmy grasshoppers
  - Zoology: QL508.T38
- Pigmy mole crickets
  - Zoology: QL508.T73
- Pigs
  - Laboratory manuals: QL813.P54
- Pikas: QL737.L33
- Pike
  - Zoology: QL638.E7
- Pike congers: QL638.M87
- Pile theory
  - Nuclear fission: QC790.4.P5
- Pili
  - Microbiology: QR78.5
- Pill bugs: QL444.M34
- Pimaricin
  - Organic chemistry: QD377.P55
- Pimelodidae: QL638.P6
- Pimoidae: QL458.42.P47
- Pinaceae: QK494.5.P66
- Pinch effect
  - Plasma physics: QC718.5.P45
- Pineal body
  - Physiology: QP188.P55
- Pineal gland
  - Anatomy: QL868
  - Human anatomy: QM371
- Pinguipedidae: QL638.P613
- Pink
  - Botany: QK495.C24
- Pinnidae: QL430.7.P56
- Pinnipedia: QL737.P6+
  - Paleozoology: QE882.P5
- Pinocytosis: QH634
- Pinophyta
  - Paleobotany: QE975+
- Pionidae: QL458.2.P44
- Pions
  - Elementary particle physics: QC793.5.M42+
- Piophilidae: QL537.P56
- Pipefishes
  - Zoology: QL638.S9
- Pipelines, Gas
  - Effect on plants and animals: QH545.G37
- Piperaceae: QK495.P67
- Pipettes
  - Chemical laboratories: QD54.P5
- Pipewort
  - Botany: QK495.E685
- Pipidae: QL668.E265
  - Paleozoology: QE868.P5
- Pipits: QL696.P252
- Pipridae: QL696.P263
- Pipunculidae: QL537.P57
- Pirate perches: QL638.A63
- Piroplasmida: QL368.P52
- Piscivorous birds
  - Zoology: QL677.79.P57
- Pistils
  - Perianth: QK659
- Pistons
  - Rigid dynamics: QA862.P5
- Pit scales: QL527.A8
- Pit vipers: QL666.O69
- Pitch perception
  - Neurophysiology: QP465
- Pitcher plant
  - Botany: QK495.S24
- Pitheciidae: QL737.P959
- Pittas: QL696.P2634
- Pitted-shell turtles: QL666.C52
- Pittidae: QL696.P2634

## INDEX

- Pittosporaceae: QK495.P7
- Pituitary gland
  - Anatomy: QL868
  - Human anatomy: QM371
  - Physiology: QP188.P58
- Pituitary hormone releasing factors
  - Animal biochemistry: QP572.P5
- Pituitary hormones
  - Animal biochemistry: QP572.P52
- PL/1 (Computer program language): QA76.73.P25
- PL-topology: QA613.4
- Placenta
  - Embryology: QL973
- Placental hormones
  - Animal biochemistry: QP572.P57
- Placenticeratidae
  - Paleozoology: QE807.P69
- Placodermi
  - Paleozoology: QE852.P5
- Placodontia
  - Paleozoology: QE862.P37
- Plages, Solar: QB526.F64
- Plagiochilaceae: QK555.P45
- Plagioclase
  - Mineralogy: QE391.P55
- Plagiostomi
  - Paleozoology: QE852.C52
- Plagiotheciaceae: QK539.P7
- Plague
  - Microbiology: QR201.P5
- Plains
  - Zoology: QL115
- Plaintain-eaters
  - Zoology: QL696.C85
- Planaxidae: QL430.5.P46
- Planck radiation law: QC318.P6
- Plane analytic geometry: QA552
- Plane curves: QA567
- Plane geometry: QA474
- Plane geometry textbooks: QA455
- Plane trigonometry: QA533
- Planetariums: QB70+
- Planetary geology: QB603.G46
- Planetary meteorology: QB603.A85
- Planetary motion: QB603.M6
- Planetary nebulae: QB855.5
- Planetary satellites
  - Celestial mechanics: QB401+
- Planetary theory
  - Theoretical astronomy: QB361+
- Planetological information, Communication of: QB600.3+
- Planetological literature: QB600.35
- Planetology
  - Descriptive astronomy: QB600+
- Planets
  - Crust: QB603.C78
  - Descriptive astronomy: QB600+
- Planets
  - Parallax: QB516
- Planets, Extrasolar
  - Distribution: QB820
- Planets, Inferior: QB606+
- Planets, Minor: QB651+
- Planets, Outer: QB659+
- Planets, Superior: QB639+
- Planimeters
  - Mathematical instruments: QA81
- Plankton
  - Aquatic biology: QH90.8.P5
  - Freshwater biology: QH96.8.P5
  - Marine biology: QH91.8.P5
  - Paleozoology: QE767
- Plankton sampling
  - Marine biology: QH91.57.P5
- Planorbidae: QL430.5.P48
- Plant adaptation
  - Botany: QK912+
- Plant analysis blanks (Botany): QK57
- Plant-animal relationships: QH549.5
- Plant canopies: QK924.5
- Plant cells
  - Physiology: QK725
- Plant communities
  - Botany: QK911
- Plant compounds
  - Animal biochemistry: QP529.5
- Plant conservation
  - Botany: QK86+
- Plant diversity conservation: QK86+
- Plant ecology: QK900+
- Plant ecophysiology: QK717
- Plant food: QK867+
- Plant lice
  - Zoology: QL527.A64
- Plant lore
  - Botany: QK83
- Plant physiology: QK710+
- Plant pigments
  - Organic chemistry: QD441
- Plant prints
  - Botany: QK61.4
- Plant products
  - Microorganisms: QR160
- Plant reintroduction: QK86.4
- Plant resource allocation
  - Plant ecophysiology: QK717
- Plant tissues
  - Physiology: QK725
- Plant-water relationships: QK870+
- Plantaginaceae: QK495.P714
- Plantain
  - Botany: QK495.P714
- Plantbugs
  - Zoology: QL523.M5

## INDEX

- Plantcutters: QL696.P2629
- Plants
  - Anatomy: QK640+
  - Biochemistry: QH345
  - Comparison with animals: QH347
  - Morphology: QK640+
  - Physiology: QK710+
- Plants and water: QK870+
- Plants in geology: QE625
- Plants, Permaculture
  - Botany: QK98.4
- Plants, Useful
  - Botany: QK98.4
- Plasma
  - Physiology: QP99
- Plasma astrophysics: QB462.7+
- Plasma chemistry: QD581
- Plasma confinement: QC718.5.C65
- Plasma effects
  - Semiconductor physics: QC611.6.P55
  - Solid state physics: QC176.8.P54
- Plasma lasers: QC689.55.P53
- Plasma physics: QC717.6+
- Plasma proteins
  - Blood constituents: QP99.3.P7
- Plasma reactions with matter
  - Plasma physics: QC718.5.P5
- Plasma reactions with particles
  - Plasma physics: QC718.5.P55
- Plasma resonance
  - Plasma physics: QC718.5.W3
- Plasma spectroscopy
  - Analytical chemistry: QD96.P62
- Plasma transport
  - Plasma physics: QC718.5.T7
- Plasmasphere
  - Geophysics: QC809.P5
- Plasmids
  - Genetics: QH452.6
  - Microbiology: QR76.6
- Plasmodiophoraceae: QK635.P6
- Plasmodiophorales: QK635.P65
- Plasmodiophorida: QL368.P55
- Plasmodroma: QL368.A115
- Plasmoids
  - Plasma physics: QC718.5.P58
- Plasmons
  - Solid state physics: QC176.8.P55
- Plastic embedding
  - Human histology: QM556.5.P53
- Plasticity
  - Analytic mechanics: QA931+
  - Crystallography: QD933
- Plasticizers
  - Spectra: QC463.P46
- Plastoceridae: QL596.P5
- Plastocyanin
  - Plant constituent: QK898.P73
- Platacanthomyidae: QL737.R666
- Platanaceae: QK495.P72
- Platanistidae: QL737.C436
- Plataspidae: QL523.P57
- Plate tectonics
  - Geology: QE511.4+
- Platelet activating factor
  - Animal biochemistry: QP752.P62
- Platelet-derived growth factor
  - Animal biochemistry: QP552.P56
- Platelets
  - Immunology: QR185.8.P58
  - Physiology: QP97+
- Plates in sound vibrations: QC241
- Platinum
  - Chemical element: Q1 .P8
- Platinum group
  - Inorganic chemistry: QD172.P8
- Platinum ores
  - Mineralogy: QE390.2.P56
- PLATO (Electronic computer system): QA76.8.P53
- Platoridae: QL458.42.P6
- Platycephalidae: QL638.P62
- Platyceratidae
  - Paleozoology: QE809.P5
- Platycnemididae: QL520.3.P53
- Platyctenea: QL380.5.T47
- Platydesmidae: QL449.65.P42
- Platygastridae: QL568.P55
- Platyglloeaceae: QK627.7
- Platyglloeales: QK627.7
- Platyhelminthes: QL391.P7
- Platylabiidae: QL510.3.P5
- Platyzepidae: QL537.P63
- Platypodidae: QL596.P6
- Platypyllidae: QL596.P62
- Platypus
  - Zoology: QL737.M72
- Platyrrhacidae: QL449.65.P427
- Platystictidae: QL520.3.P58
- Platystomatidae: QL537.P65
- Platystrophiinae
  - Paleozoology: QE797.P5
- Platyroctidae: QL638.P63
- Play behavior
  - Animals: QL763.5
- Pleasing lacewings: QL513.D5
- Pleasure
  - Neurophysiology: QP401
- Plecoglossidae: QL638.P64
- Plecoptera
  - Paleozoology: QE832.P55
  - Zoology: QL530+
- Plectoptera
  - Zoology: QL505+

## INDEX

- Plectreuridae: QL458.42.P64
- Pleidae: QL527.P6
- Pleistocene
  - Paleobotany: QE931.2
  - Paleontology: QE741.2
  - Stratigraphy: QE697+
- Pleocomidae: QL596.P63
- Pleomorphic fungi: QK604.2.P56
- Pleosporaceae: QK623.P66
- Pleosporales: QK623.P68
- Plesiopidae: QL638.P648
- Plesiosauria
  - Paleozoology: QE862.P4
- Plethodontidae: QL668.C274
- Pleura
  - Anatomy: QL849
  - Human anatomy: QM261
- Pleurobranchidae: QL430.5.P49
- Pleuroceride: QL430.5.P5
- Pleuromeiales
  - Paleobotany: QE971
- Pleuronectidae: QL638.P7
- Pleuronectiformes: QL637.9.P5
- Pleuropneumonia vaccines: QR189.5.P54
- Pliocene
  - Paleobotany: QE930
  - Paleontology: QE740
  - Stratigraphy: QE695
- Pliocene-Pleistocene boundary
  - Stratigraphy: QE695.5
- Ploceidae: QL696.P264
- Ploiariidae: QL523.P576
- Plotosidae: QL638.P72
- Plovers: QL696.C43
- Plumage
  - Birds: QL697.4
- Plumariidae: QL568.P58
- Plumbaginaceae: QK495.P725
- Plumblin deflections
  - Gravity observations: QB338
- Plumbum
  - Chemical element: Q1 .P3
- Plume moths: QL561.P8
- Plumieride
  - Plant constituent: QK898.P75
- Pluripotential theory: QA404.7+
- Plushcapped finches: QL696.P228
- Pluteaceae: QK629.P67
- Plutellidae: QL561.P55
- Pluto (Dwarf planets): QB701+
  - Satellites: QB408
- Plutonium
  - Chemical element: Q1 .P9
- Pneumatics
  - Fluid mechanics: QC161+
- Pneumococcal pneumonia
  - Microbiology: QR201.P7
- Pneumococcal vaccine: QR189.5.P58
- Pneumonia, Lobar
  - Microbiology: QR201.P7
- Pneumoridae: QL508.P6
- Poachers (Agonidae): QL638.A316
- Pocket gophers: QL737.R654
- Pocket mice: QL737.R66
- Podapolipodidae: QL458.2.P6
- Podargidae: QL696.C26
  - Paleozoology: QE872.P6
- Podicipedidae: QL696.P586
- Podicipediformes: QL696.P58+
- Podocarpaceae: QK494.5.P73
- Podocopida: QL444.O86
- Podogonata: QL458.65+
- Podopidae: QL523.P62
- Podostemaceae: QK495.P74
- Poduridae: QL503.P6
- Poeciliidae: QL638.P73
- Poecilostomatoida: QL444.C78
- Pogonophora: QL391.A6
- Point processes
  - Stochastic processes: QA274.42
- Points and curves, Groups of
  - Algebraic geometry: QA603
- Poisonous animals
  - Zoology: QL100+
- Poisonous arthropods: QL434.45
- Poisonous fishes: QL618.7
- Poisonous fungi: QK617
- Poisonous insects
  - Zoology: QL468.8
- Poisonous plants
  - Botany: QK100.A1+
- Poisons
  - Effect on plants: QK753.P65
- Poke
  - Botany: QK495.P454
- Polar climatology: QC994.75+
- Polar ecology: QH541.5.P6
- Polar meteorology: QC994.75+
- Polar regions
  - Biogeography: QH84.1+
  - Ecology: QH541.5.P6
- Polar wandering
  - Structural geology: QE501.4.P6
- Polarimetry: QB539.P58
  - Optical measurements: QC367.3.P65
- Polariscope
  - Optical instruments: QC373.P7
- Polaritons
  - Solid state physics: QC176.8.P6
- Polarization
  - Electric discharge through gases: QC711.8.P6
  - Electric waves: QC665.P6
  - Electrochemistry: QD571
  - Meteorological optics: QC976.P7

## INDEX

- Polarization
  - Nuclear interactions: QC794.6.S3
  - Optics: QC440+
  - X-rays: QC482.P6
- Polarization, Vacuum
  - Electrodynamics: QC648
- Polarizability
  - Atomic physics: QC173.4.P64
- Polarizing apparatus
  - Microscopy: QH217
- Polarizing microscopes: QH212.P6
- Polarography
  - Electrochemical analysis: QD116.P64
- Polarons
  - Solid state physics: QC176.8.P62
- Pole, Position of
  - Spherical astronomy: QB169
- Polemoniaceae: QK495.P77
- Poliomyelitis
  - Microbiology: QR201.P73
- Poliomyelitis vaccine: QR189.5.P6
- Pollen
  - Plant anatomy: QK658
- Pollination
  - Plant ecology: QK926
- Pollucite
  - Mineralogy: QE391.P56
- Pollutants
  - Effect on plants: QK750+
- Pollution
  - Physiological effect: QP82.2.P6
- Pollution, Oil
  - Effect on plants and animals: QH545.O5
- Pollution, Thermal
  - Effect on plants and animals: QH545.T48
- Polonium
  - Chemical element: Q1 .P6
- Poly-beta-hydroxyalkanoates
  - Microbial metabolism: QR92.P58
- Polyamines
  - Animal biochemistry: QP801.P638
  - Plant constituent: QK898.P756
- Polyampholytes
  - Organic chemistry: QD382.P64
- Polyangiaceae: QR82.P6
- Polyblepharidaceae: QK569.P65
- Polycentropodidae: QL518.P6
- Polychlorinated biphenyls
  - Effect on plants and animals: QH545.P6
- Polychrotidae: QL666.L268
- Polycrystalline semiconductors
  - Semiconductor physics: QC611.8.P64
- Polycrystalline thin films: QC176.9.P64
- Polycrystals
  - Crystallography: QD925
- Polyctenidae: QL523.P64
- Polycyclic aromatic hydrocarbons
  - Animal biochemistry: QP801.P639
  - Effect on plants: QK753.P67
  - Effect on plants and animals: QH545.H92
- Polycystida
  - Paleozoology: QE774.P6
- Polydesmidae: QL449.65.P64
- Polyelectrolytes
  - Organic chemistry: QD382.P64
- Polygalaceae: QK495.P775
- Polygalacturonase
  - Animal biochemistry: QP609.P6
- Polygonaceae: QK495.P78
- Polygyridae: QL430.5.P6
- Polyketides
  - Animal biochemistry: QP752.P65
- Polymastigida: QL368.P62
- Polymer colloids
  - Physical chemistry: QD549.2.P64
- Polymer liquid crystals
  - Crystallography: QD923
- Polymer networks
  - Organic chemistry: QD382.P67
- Polymerization
  - Inorganic chemistry: QD196
  - Organic chemistry: QD281.P6
- Polymers
  - Analytical chemistry: QD139.P6
  - Animal biochemistry: QP801.P64
  - Atomic physics: QC173.4.P65
  - Microbial metabolism: QR92.P59
  - Organic chemistry: QD380+
  - Photochemistry: QD381.9.P56
  - Plant constituent: QK898.P76
  - Radiation chemistry: QD651.P6
  - Spectra: QC463.P5
- Polymitarciidae: QL505.3.P64
- Polymixiidae: QL638.P747
- Polymorphism
  - Chemical crystallography: QD951
- Polymorphisms
  - Genetics: QH447.6+
- Polynemidae: QL638.P75
- Polynomials
  - Algebra: QA161.P59
- Polynucleotides
  - Genetic effects: QH465.D55
- Polyodontidae: QL638.P755
- Polyomavirus infections
  - Microbiology: QR201.P732
- Polyomaviruses
  - Virology: QR406+
- Polyominoes
  - Algebra: QA166.75
- Polypeptides
  - Animal biochemistry: QP552.P6
- Polyphagidae: QL505.7.P6

## INDEX

- Polyphenols
  - Plant constituent: QK898.P764
- Polyphyromonas gingivalis infections
  - Microbiology: QR201.P733
- Polyplacophora: QL430.13+
  - Paleozoology: QE805
- Polyploidy: QH461
- Polypodiaceae: QK524.P7
- Polypodiophyta
  - Paleobotany: QE961
- Polyporaceae: QK629.P7
- Polypteridae: QL638.P76
- Polysaccharides
  - Animal biochemistry: QP702.P6
  - Microbial metabolism: QR92.P6
  - Plant constituent: QK898.P77
- Polystoechotidae: QL513.P6
- Polythoridae: QL520.3.P6
- Polytrichaceae: QK539.P78
- Polyurethanes
  - Animal biochemistry: QP801.P643
  - Spectra: QC463.P55
- Polywater
  - Fluid mechanics: QC145.48.P6
- Polyxenidae: QL449.65.P648
- Polyzoa
  - Paleozoology: QE798+
  - Zoology: QL396+
- Polyzoniidae: QL449.65.P649
- Pomacanthidae (Marine angelfishes): QL638.P768
- Pomacentridae: QL638.P77
- Pomadasyidae: QL638.H23
- Pomatiasidae: QL430.5.P63
- Pomatiidae: QL430.5.P63
- Pomatiopsidae: QL430.5.P64
- Pomatomidae: QL638.P778
- Pomegranate
  - Botany: QK495.P958
- Pomerons
  - Elementary particle physics: QC793.5.P58+
- Pomfrets: QL638.B8
- Pompanos
  - Zoology: QL638.C25
- Pompiliidae: QL568.P6
- Pond ecology: QH541.5.P63
- Ponds
  - Ecology: QH541.5.P63
  - Freshwater biology: QH98
  - Zoology: QL146.3
- Pondweed
  - Botany: QK495.P85
- Ponies, Wild
  - Anecdotes and stories: QL795.H7
- Pons Varolii
  - Neurophysiology: QP377.5
- Pontarachnidae: QL458.2.P65
- Pontederiaceae: QK495.P783
- Pontoporiidae: QL737.C436
- Poppy
  - Botany: QK495.P22
- Popular culture: Q172.5.P65
- Popular names
  - Zoology: QL355
- Population biology: QH352+, QH352
- Population counts
  - Microbiology: QR69.P6
- Population dynamics
  - Birds: QL677.4
  - Chordates: QL607.6
  - Fishes: QL618.3
  - Insects: QL496.15
  - Mammals: QL708.6
- Population genetics
  - Biology: QH455
- Population viability analysis: QH352.5
- Populations
  - Fungi: QK604.2.P64
- Porcupinefishes: QL638.D56
- Porcupines
  - Anecdotes and stories: QL795.P6
- Porellaceae: QK555.P6
- Porgies
  - Zoology: QL638.S74
- Poriales: QK629.P74
- Porifera
  - Paleozoology: QE775
  - Zoology: QL370.7+
- Porosity
  - Petrology: QE431.6.P6
- Porous materials
  - Atomic physics: QC173.4.P67
  - Electrochemistry: QD575.P67
- Porphyridiaceae: QK569.P68
- Porphyrin
  - Spectra: QC463.P6
- Porphyrins
  - Animal biochemistry: QP671.P6
- Porphyry: QE462.P6
- Porpoises
  - Zoology: QL737.C434
- Port Orford meteorite: QB756.P67
- Portable astronomical instruments: QB105
- Portfolios
  - Mathematics teaching: QA20.P67
- Portulacaceae: QK495.P8
- Porulosida: QL368.P65
- Posidoniaceae: QK495.P83
- Position of pole
  - Spherical astronomy: QB169
- Positive ions
  - Electric discharge: QC702.7.P6
- Positron emission tomography
  - Animal biochemistry: QP519.9.P68
- Positronium (Astrophysics): QB466.P67

## INDEX

- Positrons: QC793.5.P62+
- Post-translational modification of proteins
  - Genetics: QH450.6
- PostScript (Computer program language): QA76.73.P67
- Postulates
  - Plane geometry: QA481
- Posture
  - Physiology: QP310.3
- Potamanthidae: QL505.3.P68
- Potamididae: QL430.5.P68
- Potamogalidae: QL737.S73
- Potamogetonaceae: QK495.P85
- Potamotrygonidae: QL638.85.P6
- Potassium
  - Chemical element: Q1 .K1
  - Effect on plants: QK753.P7
- Potassium hydride
  - Spectra: QC464.P68
- Potassium phosphates
  - Spectra: QC464.P685
- Potential
  - Magnetism: QC754.2.P6
- Potential barrier
  - Electricity: QC612.P6
- Potential difference
  - Electrostatics: QC581.P6
- Potential energy surfaces
  - Quantum chemistry: QD462.6.P68
- Potential theory
  - Mathematical physics: QC20.7.P67
  - Solution of physical problems: QA404.7+
- Potential variation observations: QC963
- Potentiometer
  - Electricity: QC544.P8
- Potentiometry
  - Electrochemical analysis: QD116.P68
- Potoos: QL696.C25
- Potoroidae: QL737.M386
- Potoroos: QL737.M386
- Pottiaceae: QK539.P8
- Pottos: QL737.P955
- Potyviridae
  - Virology: QR411
- Potyviruses
  - Virology: QR411
- Powderpost beetles: QL596.L92
- Power spectra
  - Meteorology: QC880.4.P6
- PowerShell (Computer program language): QA76.73.W56
- Poxviruses
  - Virology: QR412
- PQQ
  - Animal biochemistry: QP801.P654
- Practical astronomy: QB140+
- Practical geology: QE33.2.P7
- Practical geometry: QA464
- Practical mathematics: QA71+
- Præheterodonta
  - Paleozoology: QE812.P65
- Prairie ecology: QH541.5.P7
- Prairies
  - Biogeography: QH87.7
  - Botany: QK938.P7
  - Ecology: QH541.5.P7
  - Zoology: QL115.3+
- Praseodymium
  - Chemical element: Q1 .P7
- Prasiolaceae: QK569.P9
- Pratincoles: QL696.C448
- Precambrian
  - Paleobotany: QE914+
  - Paleontology: QE724+
  - Stratigraphy: QE653+
- Precession and nutation
  - Spherical astronomy: QB165
- Precious metals
  - Inorganic chemistry: QD172.P88
- Precious stones
  - Mineralogy: QE392+
- Precipitation
  - Antigen-antibody reactions: QR187.P7
  - Physical chemistry: QD547
- Predaceous diving beetles: QL596.D9
- Predacious fungi
  - Botany: QK604.2.P73
- Predation
  - Animals: QL758
- Predator control
  - Effect on plants and animals: QH545.P73
- Predatory animals: QL758
- Predicate calculus
  - Mathematical logic: QA9.35
- Prediction analysis
  - Mathematical statistics: QA279.2
- Prediction of volcanic activity: QE527.5
- Prefrontal cortex
  - Neurophysiology: QP383.17
- Pregnancy proteins
  - Animal biochemistry: QP552.P65
- Pregnenolone
  - Animal biochemistry: QP572.P67
- Preparative layer chromatography
  - Analytical chemistry: QD79.C52
- Preselection, Sex
  - Physiology: QP279
- Pressed plants
  - Botany: QK89
- Pressure
  - Bacterial physiology: QR97.P7
  - Effect on cells: QH658
  - Effect on spectra: QC467
  - Electric corona: QC643.7.P7
  - Gases: QC165
  - Liquids: QC145.4.P73

## INDEX

- Pressure
  - Physiological effect: QP82.2.P7
  - Physiology: QP451.2
  - Sound waves: QC243.3.P7
- Pressure, Intraocular
  - Neurophysiology: QP476.3
- Priacanthidae: QL638.P785
- Priapulida: QL391.P93
- Pricklebacks
  - Zoology: QL638.S84
- Primary cosmic rays: QC485.9.P7
- Primary productivity
  - Botany: QK909.5
  - Freshwater biology: QH96.8.P7
  - Marine biology: QH91.8.P7
- Primates
  - Paleozoology: QE882.P7
  - Zoology: QL737.P9+
- Prime meridians
  - Astronomy: QB224
- Primes, Distribution of
  - Number theory: QA246
- Primrose
  - Botany: QK495.P95
- Primulaceae: QK495.P95
- Principal components analysis
  - Mathematical statistics: QA278.5
- Prion diseases
  - Microbiology: QR201.P737
- Prionidae: QL596.P7
- Prionopidae: QL696.P265
- Prions
  - Virology: QR502
- Prismatic astrolabe: QB328.P7
- Pristidae: QL638.78.P75
- Pristiformes: QL638.77+
- Pristiglomidae: QL430.7.P7
- Pristiophoridae: QL638.95.P7
- Private grants
  - Science research: Q180.55.G7
- Prizes
  - Mathematics: QA20.3
- Probabilistic automata
  - Algebra: QA267.5.P7
- Probabilistic number theory: QA241.7
- Probabilities
  - Mathematical physics: QC20.7.P7
  - Mathematics: QA273.A1+
  - Quantum mechanics: QC174.17.P68
  - Statistical physics: QC174.85.P76
- Probability theory on algebraic and topological structures: QA273.43
- Problem of many bodies
  - Quantum mechanics: QC174.17.P7
- Problem solving
  - Mathematics: QA63
- Proboscidea: QL737.P97+
- Proboscidea
  - Paleozoology: QE882.P8
- Procaviidae: QL737.H9
- Procellariiformes: QL696.P6+
- Procellariidae: QL696.P665
- Process oriented guided inquiry learning: QD49.6.P76
- Processed foods
  - Microbiology: QR129.P76
- Processing (Computer program language): QA76.73.P75
- Prochilodontidae: QL638.P786
- Prochloraceae: QK569.P93
- Proctophyllodidae: QL458.2.P74
- Proctotrypidae: QL568.P9
- Procyonidae: QL737.C26
- Prodidomidae: QL458.42.P7
- Prodigy (Online service): QA76.57.P75
- Prodoxidae: QL561.P57
- Productidae
  - Paleozoology: QE797.P9
- Productivity
  - Computer software: QA76.76.P74
- Productivity measurement
  - Freshwater biology: QH96.57.P75
- Proetida
  - Paleozoology: QE823.P75
- Proetidae
  - Paleozoology: QE823.P76
- ProfNet: QA76.57.P77
- Profundulidae: QL638.P788
- Progesterone
  - Animal biochemistry: QP572.P7
- Programmed instruction
  - Mathematics teaching: QA20.P7
  - Probabilities: QA273.27
- Programming
  - Analytical methods used in the solution of physical problems: QA402.5+
  - Digital computers: QA76.6+
- Programming languages
  - Digital computers: QA76.7+
- Programs, Object-oriented
  - Digital computers: QA76.64
- Projapygidae: QL503.4.P7
- Project method
  - Mathematics teaching: QA20.P73
- Projectiles
  - Rigid dynamics: QA862.P76
- Projective differential geometry: QA660
- Projective geometry: QA471
- Projective methods
  - Analytic geometry: QA554
- Prokaryotes
  - Micropaleontology: QE719.5
- Prolactin
  - Animal biochemistry: QP572.P74
- Proline
  - Animal biochemistry: QP562.P7



## INDEX

- Proline hydroxylase
  - Animal biochemistry: QP603.P74
- Prolog (Computer program language): QA76.73.P76
- Prolongation of life
  - Developmental physiology: QP85
- Promethium
  - Chemical element: Q1 .P5
- Prominences, Solar: QB526.P7
- Prompt neutrons
  - Elementary particle physics: QC793.5.P642+
- Pronemniidae: QL430.12.P76
- Pronghorn
  - Zoology: QL737.U52
- Proof systems
  - Mathematical logic: QA9.54
- Propagation of sound: QC233
- Proper motion in space: QB507
- Proper motion of stars: QB811
- Properties of antimatter: QC173.28+
- Properties of matter: QC173.28+
  - Atomic physics: QC170+
- Prophaethontiformes
  - Paleozoology: QE872.P65
- Propionibacteriaceae: QR82.P7
- Propionic acid
  - Microbial metabolism: QR92.P7
- Proportion
  - Fractions: QA117
- Proportional counters
  - Nuclear physics: QC787.P69
- Propositional calculus
  - Mathematical logic: QA9.3
- Proprioception
  - Physiology: QP454
- Proprioceptors: QP454
- Propylite: QE462.P7
- Proscopiidae: QL508.P7
- Prosecretin
  - Animal biochemistry: QP572.P75
- Prosencephalon
  - Anatomy: QL938.P7
  - Human embryology: QM695.P76
- Proserpinidae: QL430.5.H45
- Prosobranchia
  - Paleozoology: QE809.P7
- Prosopistomatidae: QL505.3.P76
- Prostacyclin
  - Animal biochemistry: QP752.P69
- Prostaglandin synthase
  - Animal biochemistry: QP603.P76
- Prostaglandins
  - Animal biochemistry: QP801.P68
- Protactinium
  - Chemical element: Q1 .P2
- Protagon
  - Animal biochemistry: QP752.P7
- Protamines
  - Animal biochemistry: QP552.P7
- Protarthropoda
  - Paleozoology: QE821+
- Proteaceae: QK495.P957
- Proteases
  - Animal biochemistry: QP609.P78
- Protection of software: QA76.76.P76
- Protective adaption
  - Plants: QK921+
- Protective mechanisms
  - Ecology: QH546
- Proteidae: QL668.C277
- Protein
  - Viruses: QR460
- Protein binding
  - Animal biochemistry: QP517.P76
- Protein C
  - Blood: QP93.7.P76
- Protein disulfide isomerase
  - Animal biochemistry: QP616.P76
- Protein hormones
  - Animal biochemistry: QP572.P77
- Protein kinases
  - Animal biochemistry: QP606.P76
  - Plant constituent: QK898.P79
- Protein-protein interactions
  - Animal biochemistry: QP551.5
- Protein-tyrosine kinase
  - Animal biochemistry: QP606.P78
- Proteinases
  - Animal biochemistry: QP609.P75
- Proteins
  - Animal biochemistry: QP551+
  - Biochemistry: QD431+
  - Blood constituents: QP99.3.P7
  - DNA-ligand interactions: QP624.75.P74
  - Immunology: QR186.6.P38, QR186.6.P76
  - Microbial metabolism: QR92.P75
  - Plant constituent: QK898.P8
  - RNA-ligand interactions: QP623.8.P75
  - Spectra: QC463.P7
- Protentomidae: QL503.6.P7
- Proteoglycans
  - Animal biochemistry: QP552.P73
- Proteolysis in general
  - Animal biochemistry: QP551.6
- Proteolytic enzymes
  - Animal biochemistry: QP609.P78
  - Plant constituent: QK898.P82
- Proteomyxida: QL368.P7
- Proterhinidae: QL596.P75
- Protozoic
  - Paleobotany: QE914.5
  - Paleontology: QE724.5
  - Stratigraphy: QE653.5
- Prothrombin: QP93.5+

## INDEX

- Protista
  - Microbiology: QR74.5
  - Micropaleontology: QE719.6
- Proto-planetary nebulae: QB855.5
- Protochlorophyllide
  - Plant constituent: QK898.P84
- Protochordata: QL610+
- Protococcida: QL368.P74
- Protolepidodendrales
  - Paleobotany: QE971
- Protomastigida: QL368.P76
- Protomonadida: QL368.P76
- Proton accelerators: QC787.P7
- Proton antiproton colliders: QC787.P73
- Proton magnetic resonance spectroscopy: QD96.P7
- Proton microscopes: QH212.P7
- Proton synchrotron colliders: QC787.P73
- Protoneuridae: QL520.3.P7
- Protons
  - Elementary particle physics: QC793.5.P72+
- Protoplasm
  - Bacteria: QR76
  - Cytology: QH591
- Protoplasts
  - Bacteria: QR76.3
- Protoschizomidae
  - Zoology: QL458.692.P75
- Protosiphonaceae: QK569.P97
- Prototheoridae: QL561.P58
- Prototyping
  - Computer software: QA76.76.P77
- Protozoa
  - Paleozoology: QE771+
  - Zoology: QL366+
- Protozoan diseases vaccines: QR189.5.P76
- Protura: QL503.6.A1+
- Provincial plants
  - Botany: QK84.8+
- Prowfishes
  - Zoology: QL638.Z36
- Proximity matrices
  - Algebra: QA195
- Proximity spaces
  - Topology: QA611.24
- Prunellidae: QL696.P266
- Prymnesiophyceae: QK569.P974
- Psalididae: QL510.3.P8
- Psammobiidae: QL430.7.P75
- Psechridae: QL458.42.P8
- Pselaphidae: QL596.P8
- Psephenidae: QL596.P815
- Psettodidae: QL638.P8
- Pseudidae: QL668.E268
- Pseudoanemoniaceae: QK569.P98
- Pseudoborniales
  - Paleobotany: QE965
- Pseudocaecillidae: QL515.2.P73
- Pseudochactidae: QL458.72.P75
- Pseudocheiridae: QL737.M387
- Pseudochromidae: QL638.P84
- Pseudococcidae: QL527.P83
- Pseudocode (Computer program language): QA76.73.P79
- Pseudodifferential operators
  - Functional analysis: QA329.7
- Pseudogrammidiae: QL638.P844
- Pseudogroups
  - Topology: QA614.97
- Pseudomonadaceae: QR82.P78
- Pseudomonas aeruginosa infections
  - Microbiology: QR201.P74
- Pseudomorphism
  - Chemical crystallography: QD951
- Pseudophenols
  - Aromatic compounds: QD341.P6
- Pseudoplesiopidae: QL638.P84
- Pseudoscience: Q172.5.P77
- Pseudoscorpiones: QL458.6+
  - Paleozoology: QE826.C5
- Pseudoscorpionida: QL458.6+
- Pseudosphaeriaceae: QK623.P8
- Pseudostigmatidae: QL520.3.P8
- Pseudotriakidae: QL638.95.P8
- Pseudotuberculosis
  - Microbiology: QR201.P75
- Pseudouridine
  - Animal biochemistry: QP625.P74
- Psilidae: QL537.P83
- Psilophyta
  - Paleobotany: QE960.5
- Psilopsida
  - Paleobotany: QE960.5
- Psilorhynchidae: QL638.P855
- Psilotaceae: QK524.P77
- Psitaciformes
  - Paleozoology: QE872.P7
- Psittaciformes: QL696.P7
- Psittacosis
  - Microbiology: QR201.P8
- Psocoptera
  - Paleozoology: QE832.P83
  - Zoology: QL515+
- Psophiidae: QL696.G874
- Psoralens
  - Animal biochemistry: QP801.P686
- Psoroptidae: QL458.2.P8
- Psychidae: QL561.P6
- Psychodidae: QL537.P85
- Psychological aspects
  - Computer science: QA76.9.P75
- Psychology
  - Animals: QL785+
- Psychomyiidae: QL518.P8
- Psychoneuroendocrinology: QP356.45
- Psychophysiology: QP360+

## INDEX

- Psychopsidae: QL513.P8
- Psychrolutidae: QL638.P88
- Psychrometers
  - Meteorology: QC916
- Psychrophilic bacteria: QR84.7
- Psyllidae: QL527.P88
- Ptaeroxylaceae: QK495.P9575
- Pteracallidae: QL537.P87
- Pteridines
  - Animal biochemistry: QP801.P69
- Pteridophyta: QK520+
  - Paleobotany: QE960+
- Pteridospermales
  - Paleobotany: QE976.4
- Pteriidae: QL430.7.P77
- Pterinidae
  - Paleozoology: QE812.P7
- Pterobranchia
  - Paleozoology: QE840.5
- Pterobryaceae: QK539.P93
- Pteroclidae: QL696.C66
  - Paleozoology: QE872.P8
- Pterolichidae: QL458.2.P85
- Pteromalidae: QL568.P94
- Pteronarcyidae: QL530.3.P8
- Pterophoridae: QL561.P8
- Pterophyta
  - Paleobotany: QE961
- Pteropoda
  - Paleozoology: QE809.P8
- Pteropodidae: QL737.C575
- Pterosauria
  - Paleozoology: QE862.P7
- Pterostigmatidae: QL568.P945
- Pterothysanidae: QL561.P85
- Pteroylglutamic acid
  - Animal biochemistry: QP772.F6
- Pterygosomatidae: QL458.2.P87
- Ptilichthyidae: QL638.P9
- Ptiliidae: QL596.P83
- Ptilonorhynchidae: QL696.P2675
- Ptinidae: QL596.P85
- Ptiolgonatidae: QL696.P267
- Ptomaines
  - Animal biochemistry: QP801.P7
- Ptycholepiformes
  - Paleozoology: QE852.P8
- Ptychopariida
  - Paleozoology: QE823.P79
- Ptychopteridae: QL537.P89
- Puberty
  - Developmental physiology: QP84.4
- Public aquariums: QL78+
- Public opinion
  - Science: Q172.5.P82
- Pucciniaceae: QK627.P97
- Puffbirds: QL696.P52
- Puffers (Fishes)
  - Zoology: QL638.T32
- Puffinidae: QL696.P665
- Pulicidae: QL599.7.P8
- Pullulanase
  - Animal biochemistry: QP609.P85
- Pulmonary gas exchange
  - Physiology: QP124
- Pulmonary surfactant
  - Animal biochemistry: QP752.P84
- Pulmonary system
  - Physiology: QP107
- Pulmonata
  - Paleozoology: QE809.P9
- Pulsars: QB843.P8
- Pulsating stars: QB838
- Pulse height analyzers
  - Nuclear physics: QC787.P8
- Pulse radiolysis: QD643.P84
- Pulsed-field gel electrophoresis: QP519.9.P84
- Pumas
  - Anecdotes and stories: QL795.P85
- Pumping, Optical: QC446.3.O68
- Punctuated equilibrium
  - Biology: QH398
- Punicaceae: QK495.P958
- Pupillidae: QL430.5.P9
- Pupinidae: QL430.5.P92
- Purine nucleotides
  - Animal biochemistry: QP625.P87
- Purines
  - Animal biochemistry: QP801.P8
  - Microbial metabolism: QR92.P87
- Putoidae: QL527.P93
- Pycnodontiformes
  - Paleozoology: QE852.P9
- Pycnogonida: QL447
- Pycnonotidae: QL696.P268
- Pycnothelidae: QL458.42.P9
- Pyemotidae: QL458.2.P9
- Pygidicranidae: QL510.3.P94
- Pygidiidae: QL638.T76
- Pygmy possums: QL737.M347
- Pygopodes: QL696.P586
- Pygopodidae: QL666.L27
- Pygothripidae: QL598.3.P9
- Pyragridae: QL510.3.P97
- Pyralidae: QL561.P9
- Pyramidal tract
  - Neurophysiology: QP370.5
- Pyramidellidae: QL430.5.P95
  - Paleozoology: QE809.P95
- Pyramodontidae: QL638.P97
- Pyrenomycetes: QK623.A1
- Pyrenulaceae: QK623.P93
- Pyrgomorphidae: QL508.P97
- Pyrgotidae: QL537.P97

## INDEX

- Pyrheliometers: QC912
  - Pyridine nucleotides
    - Animal biochemistry: QP625.P96
  - Pyridines
    - Spectra: QC463.P92
  - Pyridoxine
    - Animal biochemistry: QP772.P9
  - Pyrimidines
    - Animal biochemistry: QP801.P85
  - Pyrochroidae: QL596.P96
  - Pyroelectric detectors
    - Physics: QC338.5.P95
  - Pyroelectricity
    - Physics: QC595
  - Pyroglyphidae: QL458.2.P95
  - Pyrolaceae: QK495.P997
  - Pyrolysis
    - Organic chemistry: QD281.P9
  - Pyrometers and pyrometry: QC277
  - Pyromorphidae: QL561.P96
  - Pyronemataceae: QK623.P95
  - Pyrophyllite
    - Mineralogy: QE391.P8
  - Pyroxene
    - Mineralogy: QE391.P84
  - Pyroxmangite
    - Mineralogy: QE391.P86
  - Pyrrhocoridae: QL523.P9
  - Pyrrhotite
    - Mineralogy: QE391.P9
  - Pyrrrolizidines
    - Animal biochemistry: QP801.P855
    - Plant constituents: QK898.P97
  - Pyruvate carboxylase
    - Animal biochemistry: QP619.P87
  - Pyruvate decarboxylase
    - Animal biochemistry: QP613.P9
  - Pyruvate oxidase
    - Animal biochemistry: QP603.P8
  - Pyruvic acid
    - Animal biochemistry: QP801.P86
  - Pythagorean theorem: QA460.P8
  - Pythamidae: QL527.P96
  - Python (Computer program language): QA76.73.P98
  - Pythonidae: QL666.O67
  - Pythonomorpha: QE862.L2
  - Pythons: QL666.O67
- Q
- Q fever
    - Microbiology: QR201.Q2
  - Q-machines
    - Plasma physics: QC718.5.Q17
  - Q-switching
    - Optical instruments: QC373.Q2
  - Quadratic equations: QA215
  - Quadratic forms
    - Number theory: QA243
  - Quadratic residues
    - Number theory: QA242
  - Quadratic transformations: QA602
  - Quadrature
    - Infinitesimal geometry: QA626
  - Quadric surfaces
    - Analytic geometry: QA561
  - Quadruple lenses: QC544.Q3
  - Quadruplex nucleic acids
    - Animal biochemistry: QP625.Q33
  - Quadrupole moment
    - Electric waves: QC665.Q3
  - Qualitative analysis
    - Analytical chemistry: QD81+
    - Organic chemistry: QD271.4
  - Qualitative reasoning
    - Artificial intelligence: Q339.25
  - Quality control
    - Analytical chemistry: QD75.4.Q34
    - Computer software: QA76.76.Q35
  - Quantitative analysis
    - Analytical chemistry: QD101+
    - Organic chemistry: QD271.7
  - Quantitative data analysis
    - Computer science: QA76.9.Q36
  - Quantitative genetics: QH452.7
  - Quantitative magnetic resonance
    - Biological research: QH324.9.Q35
  - Quantitative research
    - Computer science: QA76.9.Q36
    - Scientific research: Q180.55.Q36
  - Quantum Bayesianism: QC174.17.Q29
  - Quantum biochemistry
    - Animal biochemistry: QP517.Q34
  - Quantum chemistry: QD462+
  - Quantum chromodynamics
    - Elementary particle physics: QC793.3.Q35
  - Quantum computers: QA76.889
  - Quantum cosmology: QB991.Q36
  - Quantum dots
    - Semiconductor physics: QC611.6.Q35
  - Quantum electrodynamics: QC679+
  - Quantum electronics: QC685+
  - Quantum entanglement
    - Quantum mechanics: QC174.17.E58
  - Quantum entropy
    - Statistical physics: QC174.85.Q83
  - Quantum field theory
    - Atomic physics: QC174.45+
  - Quantum flavor dynamics
    - Elementary particle physics: QC793.3.Q37
  - Quantum graphs
    - Algebra: QA166.165
  - Quantum gravity: QC178

## INDEX

- Quantum interference
    - Quantum mechanics: QC174.17.Q33
  - Quantum logic
    - Algebraic logic: QA10.35
    - Quantum mechanics: QC174.17.M35
  - Quantum maps
    - Quantum mechanics: QC174.17.Q35
  - Quantum measure theory
    - Quantum mechanics: QC174.17.M4
  - Quantum mechanics
    - Atomic physics: QC173.96+
  - Quantum optics: QC446.15+
    - Semiconductor physics: QC611.6.Q36
  - Quantum statistics
    - Quantum mechanics: QC174.4+
  - Quantum teleportation
    - Quantum mechanics: QC174.17.Q38
  - Quantum theory
    - Atomic physics: QC173.96+
    - Magnetism: QC754.2.Q34
  - Quantum trajectories
    - Quantum mechanics: QC174.17.Q385
  - Quantum wells
    - Solid state physics: QC176.8.Q35
  - Quarks
    - Elementary particle physics: QC793.5.Q252+
  - Quartic curves: QA567.2.Q35
  - Quartic surfaces: QA573
  - Quartz
    - Mineralogy: QE391.Q2
    - Spectra: QC464.Q37
  - Quartz in optical instruments: QC376
  - Quartzite
    - Petrology: QE475.Q3
  - Quasars: QB860
  - Quasi-particles
    - Elementary particle physics: QC793.5.Q32+
  - Quasi-uniform spaces
    - Topology: QA611.25
  - Quasicrystals
    - Atomic physics: QC173.4.Q36
    - Crystallography: QD926
  - Quasigroups
    - Algebra: QA181.5
  - Quasimolecules
    - Atomic physics: QC173.4.Q37
  - Quaternary
    - Paleobotany: QE931+
    - Paleontology: QE741+, QE741
    - Stratigraphy: QE696+
  - Quaternions
    - Matrices
      - Algebra: QA196
  - Question-answering systems
    - Computer science: QA76.9.Q4
  - Queuing theory
    - Stochastic processes: QA274.8
  - Quiet Sun, International Years of the: QC801.4
  - Quiinaceae: QK495.Q5
  - Quillfishes: QL638.P9
  - Quinary system: QA141.8.Q5
  - Quinoidation
    - Organic chemistry: QD281.Q5
  - Quinoline
    - Spectra: QC463.Q5
  - Quinone
    - Spectra: QC463.Q54
  - Quinones
    - Animal biochemistry: QP801.Q5
    - Aromatic compounds: QD341.Q4
  - Quinoproteins
    - Animal biochemistry: QP552.Q55
  - Quintic curves: QA567.2.Q54
- R
- R (Computer program language): QA76.73.R3
    - Mathematical statistics: QA276.45.R3
  - R Coronae Borealis stars: QB843.R12
  - R-matrix theory
    - Quantum mechanics: QC174.35.R2
  - R Scuti stars: QB843.R17
  - Rabbit bots: QL537.C8
  - Rabbits
    - Laboratory manuals: QL813.R3
    - Zoology: QL737.L32
  - Rabbits, Wild
    - Anecdotes and stories: QL795.H35
  - Rabies
    - Microbiology: QR201.R3
  - Rabies vaccines: QR189.5.R3
  - Racah algebra
    - Quantum mechanics: QC174.17.R32
  - Raccoons
    - Anecdotes and stories: QL795.R15
    - Zoology: QL737.C26
  - Rachycentridae: QL638.R3
  - Racial analysis
    - Fishes: QL639.16
  - Racket (Computer program language): QA76.73.R33
  - Radar
    - Geology: QE33.2.R33
  - Radar in astronomy: QB480
  - Radar meteorological stations: QC973.62.A1+
  - Radar meteorology: QC973.45+
  - Radial basis functions
    - Algebra: QA223
  - Radial velocities
    - Stellar spectroscopy: QB901
  - Radiants of meteors: QB743
  - Radiation
    - Bacterial physiology: QR97.R3
    - Effect on plants: QK757
    - Genetic effects: QH465.R3

## INDEX

- Radiation
  - Geophysics: QC809.R3
  - Heat transfer: QC331+
  - Physiological effect: QP82.2.R3
  - Planets: QB603.R3
  - Plasma physics: QC718.5.R3
- Radiation calorimeters: QC293.R3
- Radiation chemistry: QD625+
- Radiation dosimetry
  - Nuclear physics: QC795.32.R3
- Radiation effects
  - Cardiovascular system: QP110.R3
  - Cells: QH652+
  - Condensed matter physics: QC173.458.R33
  - Dielectrics: QC585.7.R3
  - DNA: QP624.5.R33
  - Heart physiology: QP114.R3
  - Nervous system: QP356.5
  - Organic chemistry: QD255.5.R33
  - Polymers: QD381.9.R3
  - Semiconductor physics: QC611.6.R3
  - Solid state physics: QC176.8.R3
  - Superconductors: QC611.97.R33
  - Thin films: QC176.84.R3
  - Virology: QR478.R3
- Radiation immunology: QR188.5
- Radiation measurement
  - Quantitative analysis: QD117.R3
- Radiation, Nonionizing
  - Physiological effect: QP82.2.N64
- Radiation physics: QC474+
- Radiation pressure
  - Sound waves: QC243.3.R3
- Radiation properties
  - Cells: QH643
- Radiation, Stellar: QB817
- Radiation, Transmission of
  - Geometrical optics: QC389
- Radiation, Ultraviolet
  - Physiological effect: QP82.2.U4
- Radiative capture
  - Nuclear astrophysics: QB464.4
  - Nuclear interactions: QC794.6.R25
- Radiative transfer
  - Statistical physics: QC175.25.R3
- Radicals
  - Animal biochemistry: QP527
- Radio astronomy: QB475+
- Radio astrophysics: QB462.5
- Radio auroras: QC972.5.R3
- Radio effects, Solar: QB539.R3
- Radio frequency discharges
  - Through gases: QC711.8.R35
- Radio Galaxies
  - Radio astronomy: QB479.55.R34
- Radio in science teaching: Q194
- Radio interferometers: QB479.3
- Radio meteorology: QC972.6+
- Radio noise: QC973.4.R3
- Radio refractivity
  - Radio meteorology: QC973.4.R35
- Radio sources: QB479.5+
- Radio telescopes
  - Astronomy: QB479.2
- Radio tracking
  - Animals: QL60.4
- Radio waves
  - Physics: QC676+
  - Physiological effect: QP82.2.R33
- Radioactivation analysis
  - Biological research: QH324.9.R3
  - Nuclear chemistry: QD606
- Radioactive dating
  - Earth age: QE508
- Radioactive fallout
  - Atmospheric radioactivity: QC913.2.A8
- Radioactive minerals
  - Mineralogy: QE364.2.R3
- Radioactive substances
  - Geochemistry: QE516.R15
  - Nuclear physics: QC794.95+
- Radioactive tracers
  - Animal biochemistry: QP519.9.R28
  - Ecology: QH541.15.R34
  - Freshwater biology: QH96.57.R33
  - Nutrition research: QP143.5.R33
- Radioactivity
  - Nuclear interactions: QC794.6.R3
  - Nuclear physics: QC794.95+
  - Physics: QC770+
- Radiobiology
  - Ecology: QH543.5+
- Radiobiology, Space: QH328
- Radiochemical analysis
  - Nuclear chemistry: QD605+
- Radiochemical laboratories
  - Nuclear chemistry: QD604.8+
- Radiochemistry
  - Chemistry: QD601+
- Radiochromatography
  - Analytical chemistry: QD79.C75
- Radioecology
  - Ecology: QH543.5+
- Radiofrequency spectroscopy
  - Analytical chemistry: QD96.R3
  - Physics: QC454.R3
- Radiography
  - Heart: QP112.5.R6
- Radioimmunoassay
  - Animal biochemistry: QP519.9.R3
- Radioisotopes
  - Physics: QC795.6+
- Radiolaria
  - Paleozoology: QE773

## INDEX

- Radiolarida: QL368.R2
- Radioligand assay
  - Animal biochemistry: QP519.9.R34
- Radiolitidae
  - Paleozoology: QE812.R33
- Radiometers
  - Physics: QC338.5.R3
- Radiometry
  - Quantitative analysis: QD117.R3
- Radiomicrometers
  - Physics: QC338.5.R33
- Radionuclides
  - Radioactive substances: QC795.8.R3
- Radium
  - Chemical element: Q1 .R1
- Radon
  - Atmospheric radioactivity: QC913.2.R3
  - Chemical element: Q1 .R6
- Rafflesiaceae: QK495.R15
- Ragfishes: QL638.I23
- Railroads
  - Microbiology: QR53.5.R34
- Rails (Birds): QL696.G876
- Rain
  - Meteorology: QC924.5+
- Rain band spectrum
  - Meteorological optics: QC976.R15
- Rain forest ecology: QH541.5.R27
- Rain forests
  - Biogeography: QH86
  - Botany: QK938.R34
  - Ecology: QH541.5.R27
- Rain gauges: QC926
- Rain shadows: QC929.R17
- Rain without clouds: QC929.R2
- Rainbow
  - Meteorological optics: QC976.R2
- Raindrop size: QC926.24
- Raindrops: QC926.24
- Rainfall
  - Meteorology: QC924.5+
- Rainmaking
  - Meteorology: QC928.6
- Rajidae: QL638.85.R3
- Rajiformes: QL638.8+
  - Paleozoology: QE852.R35
- Rallidae: QL696.G876
- Ralliformes
  - Paleozoology: QE872.G8
- Ramalinaceae: QK585.R35
- Raman spectroscopy
  - Analytical biochemistry: QP519.9.R36
  - Analytical chemistry: QD96.R34
  - Physics: QC454.R36
- Ramirite
  - Mineralogy: QE391.C94
- Ramphastidae: QL696.P57
- Random dynamical systems
  - Topology: QA614.835
- Random fields
  - Statistical physics: QC174.85.R36
  - Stochastic processes: QA274.45
- Random graphs
  - Algebra: QA166.17
- Random matrices
  - Algebra: QA196.5
  - Statistical physics: QC174.85.R364
- Random measures
  - Stochastic processes: QA274.46
- Random numbers
  - Tables: QA276.25
- Random operators
  - Stochastic analysis: QA274.28
- Random sets
  - Probabilities: QA273.5
- Random walks
  - Markov processes: QA274.73
  - Statistical physics: QC174.85.R37
- Ranellidae: QL430.5.R35
- Rangeland ecology: QH541.5.R3
- Rangelands
  - Ecology: QH541.5.R3
- Ranidae: QL668.E27
- Ranking
  - Mathematical statistics: QA278.75
- Ranunculaceae: QK495.R215
- Rapateaceae: QK495.R3
- Raphidae: QL696.C67
- Raphides
  - Plant ecology: QK923
- Raphidiidae: QL514.9.R35
- Raphidioptera
  - Zoology: QL514.86+
- Raphidophyceae: QK569.R26
- Raphignathidae: QL458.2.R36
- Raptors
  - Zoology: QL677.78
- Rare amphibians: QL644.7+
- Rare animals: QL81.5+
- Rare birds: QL676.7
- Rare bryophytes: QK533.4+
- Rare earth metals
  - Geochemistry: QE516.R2
  - Inorganic chemistry: QD172.R2
  - Organometallic chemistry: QD411.8.R37
- Rare earth ores
  - Mineralogy: QE390.2.R37
- Rare earth thin films: QC176.9.R37
- Rare earths
  - Magnetic materials: QC766.R3
  - Semiconductor physics: QC611.8.R37
  - Spectra: QC462.R2
- Rare fishes: QL617.7+

## INDEX

- Rare gas solids
  - Solid state physics: QC176.8.R35
- Rare gases
  - Geochemistry: QE516.R23
- Rare insects: QL467.8
- Rare invertebrates: QL362.45+
- Rare mammals: QL706.8+
- Rare mollusks: QL405.4+
- Rare plants
  - Botany: QK86+
- Rare reptiles: QL644.7+
- Rarefied gas dynamics: QC168.86
- Rarefied gases
  - Statistical physics: QC175.16.R3
- Raspberry Pi: QA76.8.R15
- Rat-kangaroos: QL737.M348, QL737.M386
- Rat opossums: QL737.M463
- Ratardidae: QL561.R3
- Rate distortion theory
  - Information theory: Q385
- Rate processes
  - Quantum mechanics: QC174.17.R37
- Ratio
  - Fractions: QA117
- Ratites
  - Paleozoology: QE872.R37
- Rats: QL737.R666
  - Anecdotes and stories: QL795.R2
  - Laboratory manuals: QL813.R37
- Rawinsondes: QC973.7
- Rayleigh scattering: QC427.8.R3
- Rays (Fishes): QL638.8+
- Razor clams: QL430.7.S6
- Reaction mechanisms: QD502.5
- Reaction rates
  - Animal biochemistry: QP517.R4
- Reactive polymers
  - Organic chemistry: QD382.R43
- Reactivity, Chemical
  - Physical chemistry: QD505.5
- Reactor physics: QC786.4+
- Reading comprehension
  - Mathematics teaching: QA20.R43
- Reagents
  - Analytical chemistry: QD77
  - Organic chemistry: QD271.3+
- Real-time data processing
  - Computer science: QA76.54+
- Real variables, Functions of: QA331.5
- Realcompact spaces: QA611.234
- Realcompactification: QA611.234
- Realcompactness: QA611.234
- Realism
  - Philosophy of science: Q175.32.R42
- Reality
  - Physics: QC6.4.R42
- Rearrangement reactions
  - Organic chemistry: QD281.R35
- Rearrangements
  - Organic chemistry: QD281.R35
- Reasoning
  - Philosophy of science: Q175.32.R45
- Recent Holocene
  - Paleobotany: QE931.3
  - Paleontology: QE741.3
  - Stratigraphy: QE699
- Receptacle (Flowers): QK654
- Receptor genes, Olfactory: QH447.8.O43
- Receptors
  - Heart physiology: QP114.R43
- Receptors, Neurotransmitter
  - Physiology: QP364.7
- Receptors, Sensory
  - Physiology: QP447+
- Recessiveness
  - Genetics: QH447.2
- Reciprocals
  - Tables: QA49
- Recirculating electron accelerators: QC787.R43
- Reclamation of land
  - Effect on plants and animals: QH545.R38
- Recognition, Molecular
  - Animal biochemistry: QP517.M67
- Recombinant antibodies
  - Immunology: QR186.87
- Recombinant DNA
  - Animal biochemistry: QP624.5.R43
- Recombinant toxins
  - Animal biochemistry: QP632.R43
- Recombination
  - Semiconductor physics: QC611.6.R43
- Recombination mechanisms
  - Genetics: QH443+
- Recombination of ions
  - Electric discharge: QC702.7.R4
- Reconciliation
  - Animals: QL758.7
- Reconstruction
  - Graph theory: QA166.24
- Recreation areas
  - Effect on plants and animals: QH545.R42
- Recreations
  - Microscopy: QH278.5
  - Physics: QC26
- Recreations, Mathematical: QA95
- Rectification
  - Infinitesimal geometry: QA626
- Recursion theory
  - Mathematical logic: QA9.6+
- Recursive arithmetic: QA9.615
- Recursive functions
  - Mathematical logic: QA9.615
- Recurvirostridae: QL696.C473



## INDEX

- Red blood cells
  - Physiology: QP96+
- Red dwarfs: QB843.R4
- Red giants: QB843.R42
- Red panda: QL737.C214
- Redfieldiiformes
  - Paleozoology: QE852.R4
- Redlichiida
  - Paleozoology: QE823.R4
- Reduced gravity effects
  - Polymers: QD381.9.R43
- Reduced gravity environments
  - Scientific research: Q180.55.R43
- Reduced nicotinamide adenine dinucleotide dehydrogenase
  - Animal biochemistry: QP603.R4
- Reduction
  - Chemistry: QD63.R4
  - Organic chemistry: QD281.R4
- Reduction of center of earth
  - Astronomy: QB155+
- Reduction, Star
  - Spherical astronomy: QB168
- Reductionism
  - Philosophy of science: Q175.32.R47
  - Physics: QC6.4.R43
- Reductones
  - Animal biochemistry: QP801.R4
- Reduviidae: QL523.R4
- Reed warblers: QL696.P2133
- Reefs
  - Ecology: QH541.5.C7
- Refactoring of software
  - Computer software: QA76.76.R42
- Reflectance spectroscopy
  - Analytical chemistry: QD96.R4
  - Physics: QC454.R4
- Reflection
  - Optics: QC425+
  - Sound: QC233
- Reflectivity
  - Crystallography: QD941
- Reflectometers: QC425.4
- Reflexes
  - Central nervous system: QP372+
- Reflexes, Cardiogenic
  - Physiology: QP114.C37
- Reforestation
  - Effect on plants and animals: QH545.R44
- Refraction
  - Optics: QC425.9+
  - Radar meteorology: QC973.8.R4
- Refraction, Astronomical: QB155+
- Refraction, Double
  - Optics: QC426.8.D68
- Refraction, Eye
  - Physiology: QP477
- Refractive indices
  - Geometrical optics: QC387
- Refractivity
  - Crystallography: QD941
- Refractometers: QC426.4
- Refrigerated foods
  - Microbiology: QR129.R44
- Regalecidae: QL638.R4
- Regeneration
  - Biology: QH499
  - Heart physiology: QP114.R45
  - Physiology: QP90.2
  - Plant physiology: QK840
- Regge trajectories
  - Elementary particle physics: QC793.3.R4
- Regional anatomy
  - Human anatomy: QM531+
  - Zoology: QL950.1+
- Regional cerebral blood flow
  - Physiology: QP108.5.C4
- Regression analysis
  - Mathematical statistics: QA278.2
- Regulation of respiration
  - Physiology: QP123
- Regulidae: QL696.P27
- Reindeer
  - Anecdotes and stories: QL795.R4
- Reinforcement learning (Machine learning): Q325.6
- Reintroduction, Plant: QK86.4
- Rejuvenation
  - Physiology: QP90
- Relapsing fever
  - Microbiology: QR201.R45
- Relational calculus
  - Mathematical physics: QC20.7.R38
- Relative motions
  - Kinematics: QA841+
- Relativistic astrophysics: QB462.65
- Relativistic effects
  - Quantum chemistry: QD462.6.R42
- Relativistic fluid dynamics: QA912
- Relativistic kinematics: QA842
- Relativistic mechanics: QA808.5
- Relativistic thermodynamics: QC311.7
- Relativistic wave mechanics: QC174.24.R4
- Relativity physics: QC173.5+
- Relativity (Statistical physics): QC175.36.R4
- Relaxation
  - Dielectrics: QC585.7.R4
  - Gas dynamics: QC168.85.R45
  - Nuclear magnetism: QC762.6.R44
- Relaxation methods
  - Mathematical physics: QC20.7.R4
  - Numerical analysis: QA297.55
- Relaxation phenomena
  - Atomic physics: QC173.4.R44
  - Quantum chemistry: QD462.6.R44

## INDEX

- Relaxation spectroscopy
  - Analytical chemistry: QD96.R44
- Relaxin
  - Animal biochemistry: QP572.R46
- Reliability
  - Computer software: QA76.76.R44
- Relict plants
  - Botany: QK86.7+
- Remizidae: QL696.P272
- Remnant vegetation conservation: QK86+
- Remnant vegetation management: QK86+
- Remoras
  - Zoology: QL638.E2
- Remote job entry
  - Computer science: QA76.9.R45
- Remote sensing
  - Ecology: QH541.15.R4
  - Freshwater biology: QH96.8.R34
  - Geochemistry: QE515.5.R45
  - Geology: QE33.2.R4
  - Nature conservation: QH77.3.R46
  - Seismology: QE539.2.R45
  - Structural geology: QE501.4.R45
  - Volcanoes: QE527.55
- Renin
  - Animal biochemistry: QP609.R38
- Rennin
  - Animal biochemistry: QP609.R4
- Renormalization
  - Mathematical physics: QC20.7.R43
- Renormalization theory
  - Quantum mechanics: QC174.17.R46
- Reoviruses
  - Virology: QR414
- Reparative processes
  - Plant physiology: QK840
- Replication
  - Virology: QR470
- Replication of DNA
  - Animal biochemistry: QP624.5.R48
- Reporter genes: QH447.8.R47
- Representations of graphs: QA166.242
- Representations of groups
  - Algebra: QA176
- Reproduction
  - Bacterial physiology: QR86.5
  - Biology (General): QH471+
  - Birds: QL698.2
  - Fishes: QL639.2
  - Invertebrates: QL364.15
  - Mammals: QL739.23
  - Mollusca: QL431.3
  - Physiology: QP251+
  - Plant physiology: QK825+
  - Reptiles and amphibians: QL669.3
- Reproductive endocrinology: QP252+
- Reproductive immunology
  - Physiology: QP252.5
- Reproductive interrelation
  - Plant ecology: QK925+
- Reproductive organs
  - Anatomy: QL876+
  - Human anatomy: QM401+
  - Spermatophytes: QK652+
- Reptile watching: QL645.6+
- Reptiles
  - Paleozoology: QE861+
  - Zoology: QL665+
- Reptiles and amphibians: QL640+
- Requiem sharks: QL638.95.C3
- Research
  - Algebra: QA159+
  - Group theory: QA174.62.C65
  - Calculus: QA303.3
  - Computer science: QA76.27+
  - Elementary geometry: QA461+
  - Mathematical statistics: QA276.18+
  - Mathematics: QA10.92+
  - Moon: QB582.3
  - Probabilities: QA273.2+
  - Reptiles and amphibians: QL645.6+
  - Topology: QA611.17+
- Research ships
  - Marine biology: QH91.57.R47
- Resedaceae: QK495.R4
- Reservoir drawdown
  - Freshwater biology: QH96.8.R35
- Reservoir ecology: QH541.5.R4
- Reservoirs
  - Ecology: QH541.5.R4
  - Effect on plants and animals: QH545.D35
- Reservoirs, Volcanic gas
  - Geology: QE527.75
- Residues
  - Number theory: QA244
- Resins
  - Biochemistry: QD419+
- Resistance
  - Antibiosis: QR99.5
  - Particle dynamics: QA852
- Resistance thermometers: QC274
- Resisting medium in the solar system: QB505
- Resonance
  - Nuclear interactions: QC794.6.R4
  - Sound vibrations: QC235
- Resonance integral
  - Nuclear interactions: QC794.6.R4
- Resonance ionization spectroscopy
  - Physics: QC454.R47
- Resonant ultrasound spectroscopy
  - Physics: QC454.R5
- Respiration
  - Biology: QH518

## INDEX

- Respiration
  - Cells: QH633
  - Microbiology: QR89+
  - Physiology: QP121+
  - Phytochemistry: QK891
- Respiratory organs
  - Anatomy: QL845+
  - Human anatomy: QM251+
  - Physiology: QP121+
- Respiratory passages
  - Anatomy: QL852
- Respiratory regulation
  - Physiology: QP123
- Response to intervention
  - Mathematics teaching: QA20.R47
- Restionaceae: QK495.R42
- Restoration ecology: QH541.15.R45
- Restriction enzymes, DNA
  - Animal biochemistry: QP609.R44
- Reticles
  - Optical instruments: QC373.R4
- Reticulocytes
  - Physiology: QP96.7
- Retina
  - Neurophysiology: QP479
- Retinoids
  - Animal biochemistry: QP801.R47
- Retortamonadida: QL368.R43
- Retracts
  - Topology: QA612.5
- Retropinnidae: QL638.R48
- Retrovirus infections
  - Microbiology: QR201.R47
- Retroviruses
  - Virology: QR414.5+
- Reusability
  - Computer software: QA76.76.R47
- Reverberation
  - Sound waves: QC243.3.R4
- Reverberation chambers
  - Instruments and apparatus: QC668.A54
- Reversal of time (Relativity physics): QC173.59.T53
- Reverse mathematics: QA9.25+
- Reverse transcriptase
  - Animal biochemistry: QP606.R48
- Reversible computing
  - Computer science: QA76.9.R48
- Rhabdoviruses
  - Virology: QR415
- Rhachitomi
  - Paleozoology: QE868.R5
- Rhacophoridae: QL668.E274
- Rhagidiidae: QL458.2.R45
- Rhagionidae: QL537.R4
- Rhagodidae: QL458.82.R4
- Rhamnaceae: QK495.R45
- Rhamphichthyidae: QL638.R5
- Rhaphidophoridae
  - Zoology: QL508.R45
- Rheas: QL696.R4
- Rheidae: QL696.R4
- Rheiformes: QL696.R37+
  - Paleozoology: QE872.R4
- Rhenium
  - Chemical element: Q1 .R4
- Rheology
  - Animal biochemistry: QP517.R48
  - Matter and antimatter: QC189.5+
  - Physiology: QP105.15
  - Polymers: QD381.9.R48
- Rheumatic fever
  - Microbiology: QR201.R5
- Rheumatism
  - Microbiology: QR201.R53
- Rheumatoid factor
  - Immunology: QR186.83.R48
- Rhinatrematidae: QL668.A67
- Rhincodontidae: QL638.95.R4
- Rhinencephalon
  - Anatomy: QL938.R53
- Rhinobatidae: QL638.85.R4
- Rhinoceroses
  - Anecdotes and stories: QL795.R45
  - Zoology: QL737.U63
- Rhinocerotidae: QL737.U63
- Rhinocricidae: QL449.65.R4
- Rhinocryptidae: QL696.P273
- Rhinogastra: QL458.65+
- Rhinolophidae: QL737.C58
- Rhinophoridae: QL537.R457
- Rhinophrynididae: QL668.E275
- Rhinopomatidae: QL737.C585
- Rhinoprenidae: QL638.R55
- Rhinopteridae: QL638.85.M9
- Rhinoteridae: QL537.R458
- Rhinotermitidae: QL529.3.R4
- Rhinoviruses
  - Virology: QR410.2.R45
- Rhipiceridae: QL596.R4
- Rhipidiaceae: QK621.R5
- Rhipiduridae: QL696.P274
- Rhipiphoridae: QL596.R485
- Rhizobiaceae: QR82.R45
- Rhizocephala: QL444.C57
- Rhizoctonia: QK625.R4
- Rhizomastigida: QL368.R5
- Rhizomes
  - Plant anatomy: QK646+
- Rhizomyidae: QL737.R666
- Rhizophagidae: QL596.R5
- Rhizophoraceae: QK495.R46
- Rhizopoda: QL368.A14
- Rho-associated protein kinases
  - Animal biochemistry: QP606.R49

## INDEX

- Rho GTPases
  - Animal biochemistry: QP609.R49
- Rhodacaridae: QL458.2.R47
- Rhodium
  - Chemical element: Q1 .R5
- Rhodomelaceae: QK569.R37
- Rhodophyceae: QK569.R4
- Rhodophyllaceae: QK629.E56
- Rhodophyta: QK569.R4
- Rhodopidae: QL430.5.R45
- Rhodospirillaceae: QR82.R46
- Rhodospirillales: QR82.R47
- Rhodymeniaceae: QK569.R6
- Rhoipteleaceae: QK495.R465
- Rhombozoa: QL391.M4
- Rhopalidae: QL523.R5
- Rhopalomeridae: QL537.R46
- Rhopalosomatidae: QL568.R4
- Rhyacichthyidae: QL638.R59
- Rhyacophilidae: QL518.R4
- Rhyacotritonidae: QL668.C278
- Rhynchobatidae: QL638.85.R48
- Rhynchocephalia: QL666.R4+
  - Paleozoology: QE862.R5
- Rhynchozoela: QL391.N6
- Rhynchonellida
  - Paleozoology: QE797.R5
- Rhynchonellidae: QL395.8.R5
- Rhynochetidae: QL696.G878
- Rhyolite: QE462.R4
- Rhysodidae: QL596.R57
- Rhythm
  - Neurophysiology: QP467
- Rhythmic movements
  - Physiology: QP310.R45
- Rhytididae
  - Zoology: QL430.5.R48
- Rhytidosteidae
  - Paleozoology: QE868.R53
- Rhytismataceae: QK623.R45
- Ribbonfishes: QL638.T69
- Ribbonworms: QL391.N6
- Riboflavin
  - Animal biochemistry: QP772.R5
- Ribonucleases
  - Animal biochemistry: QP609.R53
- Ribonucleate nucleotidyltransferases
  - Animal biochemistry: QP606.R53
- Ribonucleic acids
  - Animal biochemistry: QP623+
  - Organic chemistry: QD434
- Ribonucleoside diphosphate reductase
  - Animal biochemistry: QP603.R52
- Ribonucleosides
  - Animal biochemistry: QP625.R53
- Ribosomes
  - Cytology: QH603.R5
- Ribs
  - Human anatomy: QM113
- Ricaniidae: QL527.R5
- Ricciaceae: QK555.R5
- Rice
  - Nutrition: QP144.R53
- Richardiidae: QL537.R5
- Ricinidae: QL540.3.R5
- Ricinoididae: QL458.67.R5
- Ricinulei: QL458.65+
- Ricinuleida: QL458.65+
- Rickettsiaceae
  - Microbiology: QR353.5.R5
- Rickettsial diseases
  - Microbiology: QR201.R59
- Rickettsias
  - Microbiology: QR353+
- Ridiaschinidae: QL561.R53
- Riebeckite
  - Mineralogy: QE391.R5
- Riemann surfaces: QA333+
- Right whales: QL737.C423
- Righteye flounders: QL638.P7
- Rigid bodies
  - Statics: QA831
- Rigidity
  - Discrete geometry: QA640.77
- Ring breaking: QD281.R5
- Ring enclosure: QD281.R5
- Ring enlargement: QD281.R5
- Ring formation
  - Organic chemistry: QD281.R5
- Ring-opening polymerization: QD281.R5
- Ring system of Saturn: QB405
- Ring-tailed phalangers
  - Anecdotes and stories: QL795.R5
- Rings of crystals
  - Physical optics: QC445
- Rings of planets: QB603.R55
- Riodinidae: QL561.R56
- Riparian areas in ecology: QH541.5.R52
- Ripples, Cosmic: QB991.C64
- Risk assessment
  - Ecology: QH541.15.R57
- Rissoidae: QL430.5.R57
- Rivalry, Binocular
  - Physiology: QP487.5
- River dolphins
  - Zoology: QL737.C436
- River regulation
  - Effect on plants and animals: QH545.R58
- Riverweed
  - Botany: QK495.P74
- RNA
  - Editing: QH450.25
  - RNA interference: QH450.26

## INDEX

- RNA-ligand interactions
  - Animal biochemistry: QP623.7+
- RNA polymerases
  - Animal biochemistry: QP606.R53
- RNA viruses
  - Structure: QR458
  - Virology: QR395
- Road ecology: QH541.5.R62
- Roadrunners
  - Zoology: QL696.C83
- Roads
  - Effect on birds: QL698.26
  - Effect on plants and animals: QH545.R62
- Roadside ecology: QH541.5.R62
- Roatelos: QL696.G85
- Robber frogs: QL668.E257
- Robberflies: QL537.A85
- Roccellaceae: QK585.R7
- Rock-forming minerals: QE397
- Rock-water interaction
  - Petrology: QE431.6.W38
- Rockets
  - Meteorology: QC879.4+
- Rockrose
  - Botany: QK495.C5
- Rocks
  - Botany: QK938.R6
- Rocks, Carbonate: QE471.15.C3
- Rocks, Metamorphic: QE475.A2+
- Rocks, Sedimentary: QE471+
- Rocks, Ultrabasic: QE462.U4
- Rockslides
  - Geology: QE599+
- Rocky Mountain spotted fever
  - Microbiology: QR201.S65
- Rodent bots: QL537.C8
- Rodentia: QL737.R6+
  - Paleozoology: QE882.R6
- Rods in sound vibrations: QC241
- Roentgen rays
  - Physics: QC480.8+
- Roentgenium
  - Chemical element: Q1 .R47
- Rolled-wing stoneflies: QL530.3.L49
- Rollers (Birds): QL696.C73
- Romaleidae
  - Zoology: QL508.R65
- Rondeletiidae: QL638.R65
- Ronquils: QL638.B26
- Root nodules
  - Bacteriology: QR113
- Root tubercles
  - Plant anatomy: QK644
- Roots
  - Arithmetic: QA119
  - Plant anatomy: QK644
  - Theory of equations: QA212
- Ropen: QL89.2.R67
- Roproniidae: QL568.R6
- Roridulaceae: QK495.R468
- Rorquals: QL737.C424
- Rosaceae: QK495.R78
- Rosauridae: QL638.R68
- Roscoelite
  - Mineralogy: QE391.R7
- Rose
  - Botany: QK495.R78
- Rosensteiniidae: QL458.2.R66
- Rossby waves
  - Meteorology: QC880.4.R6
- Rostratulidae: QL696.C477
- Rostroconchia
  - Paleozoology: QE814
- Rotating fluids
  - Celestial mechanics: QB410
  - Fluid dynamics: QA925
- Rotation groups
  - Quantum mechanics: QC174.17.R65
- Rotation of crystals
  - Crystallography: QD941
- Rotation of the earth: QB633
- Rotation of the moon: QB585
- Rotation of the sun: QB523
- Rotavirus infections
  - Microbiology: QR201.R67
- Rotifera: QL391.R8
- Roulettes
  - Infinitesimal geometry: QA623
- Round fungus beetles: QL596.L35
- Round Island boas: QL666.O633
- Rounding
  - Numerical analysis: QA297.65
- Roundoff errors
  - Numerical analysis: QA297.7
- Roundworms: QL391.N4
- Rove beetles: QL596.S75
- Royal moths: QL561.C5
- RPG (Computer program language): QA76.73.R25
- RR Lyrae stars: QB843.R72
- Rubella vaccines: QR189.5.R8
- Rubella viruses
  - Virology: QR416.R8
- Rubiaceae: QK495.R85
- Rubidium
  - Chemical element: Q1 .R3
- Rubies
  - Mineralogy: QE394.R8
- Ruby (Computer program language): QA76.73.R83
- Rudista
  - Paleozoology: QE812.H573
- Rumen
  - Microbiology: QR171.R85
- Running
  - Physiology: QP310.R85

## INDEX

- Ruppiaceae: QK495.R956
  - Rush
    - Botany: QK495.J87
  - Russulaceae: QK629.R87
  - Rust (Computer program language): QA76.73.R87
  - Rust flies: QL537.P83
  - Rust fungi: QK627.A1+
  - Rutaceae: QK495.R98
  - Rutelidae: QL596.R8
  - Ruthenium
    - Chemical element: Q1 .R9
    - Superconductors: QC611.98.R88
  - Rutherfordium
    - Chemical element: Q1 .R45
  - Rutile
    - Mineralogy: QE391.R88
  - Rynchopidae: QL696.C479
- S
- S (Computer program language): QA76.73.S15
  - S-matrix theory
    - Quantum mechanics: QC174.35.S2
  - Sabiaceae: QK495.S15
  - Sablefishes
    - Zoology: QL638.A567
  - Sac-winged bats: QL737.C525
  - Saccharides
    - Spectra: QC463.S23
  - Saccharomyces cerevisiae
    - Experimental genetics: QH470.S23
  - Saccharomycetaceae: QK623.S23
  - Saccopharyngidae: QL638.S15
  - Sacrosporida: QL368.T6
  - Saddlebacks (Birds): QL696.P224
  - Safety measures
    - Biological laboratories: QH323.2
    - Chemistry: QD63.5
    - Radiation
      - For physicists: QC795.32.S3
    - Seismology: QE539.2.S34
    - Volcanoes: QE527.6
  - Sagebrush steppes
    - Ecology: QH541.5.S18
  - Sagittariidae: QL696.F38
  - Sagridae: QL596.S23
  - Sakis: QL737.P959
  - Salamanders
    - Anecdotes and stories: QL795.S3
    - Caudata: QL668.C2+
  - Salamandridae: QL668.C28
  - Salangidae: QL638.S18
  - Saldidae: QL523.S25
  - Salicaceae: QK495.S16
  - Salientia: QL668.E2+
  - Saline water
    - Aquatic biology: QH95.9
  - Saline water conversion plants
    - Effect on plants and animals: QH545.S33
  - Salinity
    - Bacterial physiology: QR97.S3
  - Saliva
    - Physiology: QP191
  - Salivary glands
    - Anatomy: QL865
    - Human anatomy: QM325
    - Physiology: QP188.S2
  - Salmon
    - Zoology: QL638.S2
  - Salmonella infections
    - Microbiology: QR201.S25
  - Salmonidae: QL638.S2
  - Salmoniformes: QL637.9.S3
  - Paleozoology: QE852.S2
  - Salt
    - Effect on plants: QK753.S3
    - Petrology: QE471.15.S2
  - Salt glands
    - Physiology: QP188.S26
  - Salt lake ecology: QH541.5.S22
  - Salt lakes
    - Ecology: QH541.5.S22
  - Salt marsh ecology: QH541.5.S24
  - Salt-marsh plants
    - Plant ecology: QK922
  - Salt marshes
    - Botany: QK938.S27
    - Ecology: QH541.5.S24
  - Salt tectonics
    - Geology: QE513
  - Salterellidae
    - Paleozoology: QE807.S3
  - Salticidae: QL458.42.S24
  - Salts
    - Effect on plants: QK753.S32
    - Inorganic chemistry: QD189+
    - Microbial metabolism: QR92.S3
  - Salts of organic acids
    - Mineralogy: QE389.7
  - Saltwater aquariums: QL78.5
  - Saltwater encroachment
    - Effect on plants and animals: QH545.S35
  - Salvadoraceae: QK495.S165
  - Salviniaceae: QK524.S33
  - Samarium
    - Chemical element: Q1 .S65
  - Sample introduction
    - Analytical chemistry: QD75.4.S24
  - Sample preparation
    - Analytical chemistry: QD75.4.S24
  - Sampling
    - Analytical chemistry: QD75.4.S25
  - Samsung computers: QA76.8.S25
  - Samsung Galaxy series smartphones: QA76.8.S25

## INDEX

- Sand and gravel industry
  - Effect on plants and animals: QH545.S37
- Sand barrens
  - Botany: QK938.S3
- Sand dune ecology: QH541.5.S26
- Sand dunes
  - Ecology: QH541.5.S26
- Sand flounders: QL638.P313
- Sand hoppers: QL444.M315
- Sand lances: QL638.A4
- Sand stargazers: QL638.D35
- Sand tigers: QL638.95.O3
- Sandalwood
  - Botany: QK495.S18
- Sandfishes: QL638.T73
- Sandgrouses: QL696.C66
- Sandperches: QL638.P613
- Sandpipers: QL696.C48
- Sandstone
  - Petrology: QE471.15.S25
- Sanitary microbiology: QR48
- Santa Ana winds: QC939.M8
- Santalaceae: QK495.S18
- Sap beetles: QL596.N58
- Sap movements
  - Phytochemistry: QK871
- SAP NetWeaver Gateway: QA76.76.S27
- Sapindaceae: QK495.S19
- Saponins
  - Animal biochemistry: QP702.S28
- Sapotaceae: QK495.S2
- Sapphires
  - Mineralogy: QE394.S3
- Sapphirine
  - Mineralogy: QE391.S25
- Saprolegniaceae: QK621.S24
- Saprolegniales: QK621.S25
- Saprolites
  - Petrology: QE496
- Saprophytes
  - Plant ecology: QK918
- Saprophytic fungi: QK604.2.S25
- Sapygidae: QL568.S2
- Saraceniaceae: QK495.S24
- Sarcocystosis
  - Microbiology: QR201.S27
- Sarcodina: QL368.A14
- Sarcolaenaceae: QK495.S225
- Sarcophagidae: QL537.S25
- Sarcoplasmic reticulum
  - Cytology: QH603.S27
- Sarcoptidae: QL458.2.S25
- Sarcoscyphaceae: QK623.S26
- Sarcosomataceae: QK623.S27
- Sarcospermataceae: QK495.S227
- Sargassaceae: QK569.S2
- Sargentodoxaceae: QK495.S23
- SARS (Disease)
  - Microbiology: QR201.S28
- SAS (Computer program language): QA76.73.S27
  - Mathematical statistics: QA276.45.S27
- Sasquatch: QL89.2.S2
- Satellite DNA
  - Animal biochemistry: QP624.5.S26
- Satellite geodesy: QB343
- Satellites
  - Celestial mechanics: QB401+
- Satellites and ring system of Neptune: QB407
- Satellites of Jupiter: QB404
- Satellites of Mars: QB403
- Satellites of Pluto: QB408
- Satellites of Saturn: QB405
- Satellites of Uranus: QB406
- Saturated fatty acids
  - Animal biochemistry: QP752.S37
- Saturated vapors
  - Physics: QC304
- Saturn (Planet): QB671+
  - Perturbations: QB384
  - Satellites and ring systems: QB405
- Saturniidae: QL561.S2
- Satyridae: QL561.S3
- Sauria: QL666.L2+
- Sauries
  - Zoology: QL638.S347
- Saurischia
  - Paleozoology: QE862.S3
- Sauriurae
  - Paleozoology: QE872.A8
- Sauropterygia
  - Paleozoology: QE862.S33
- Saururaceae: QK495.S27
- Savannas
  - Ecology: QH541.5.P7
- Saw sharks: QL638.95.P7
- Sawfishes: QL638.77+
- Sawflies: QL568.T3
- Saxifragaceae: QK495.S3
- Saxifrage
  - Botany: QK495.S3
- Saxitoxin
  - Animal biochemistry: QP632.S27
- SCA statistical system: QA276.45.S28
- Scala (Computer program language): QA76.73.S28
- Scalar field theory: QA433
- Scalariidae: QL430.5.E6
- Scales
  - Anatomy: QL942
  - Shoots: QK650
- Scales (Weighing instruments): QC107
- Scaling
  - Quantum chemistry: QD462.6.S25
  - Statistical physics: QC174.85.S34
- Scaly-tailed squirrels: QL737.R624

## INDEX

- Scandentia: QL737.S25+
  - Paleozoology: QE882.S32
- Scandium
  - Chemical element: Q1 .S4
- Scanning Auger electron microscopes: QH212.S24
- Scanning electrochemical microscopes: QH212.S28
- Scanning electron microscopes: QH212.S3
- Scanning force microscopes: QH212.S32
- Scanning probe microscopes: QH212.S33
- Scanning systems
  - Nuclear physics: QC787.S3
- Scanning transmission electron microscopes: QH212.S34
- Scanning tunneling microscopes: QH212.S35
- Scapaniaceae: QK555.S34
- Scapanorhynchidae: QL638.95.S3
- Scaphidiidae: QL596.S28
- Scaphiopodidae: QL668.E33
- Scaphopoda: QL430.8
  - Paleozoology: QE813
- Scapolite
  - Mineralogy: QE391.S28
- Scarabaeidae: QL596.S3
- Scarabs
  - Zoology: QL596.S3
- Scaridae: QL638.S3
- Scarlatina
  - Microbiology: QR201.S3
- Scatophagidae: QL638.S32
- Scatopsidae: QL537.S32
- Scats (Fish): QL638.S32
- Scattering
  - Atomic physics: QC174.52.S32
  - Electric discharge: QC702.7.S3
  - Electric waves: QC665.S3
  - Meteorological optics: QC976.S3
  - Nuclear interactions: QC794.6.S3
  - Optics: QC427+
  - Radio waves: QC676.7.S3
  - Sound waves: QC243.3.S3
  - X-rays: QC482.S3
- Scattering, Critical: QC427.8.C73
- Scattering, Mie: QC427.8.M5
- Scattering, Rayleigh: QC427.8.R3
- Scattering theory
  - Mathematical physics: QC20.7.S3
- Scelionidae: QL568.S3
- Scenedesmaceae: QK569.S32
- Scenopinidae: QL537.S34
- Scheelite
  - Mineralogy: QE391.S3
- Scheme (Computer program language): QA76.73.S34
- Schendylidae: QL449.55.S25
- Scheuchzeriaceae: QK495.S35
- Schilbeidae: QL638.S334
- Schindleriidae: QL638.S335
- Schisandraceae: QK495.S353
- Schist
  - Petrology: QE475.S3
- Schistosomiasis
  - Microbiology: QR201.S35
- Schizaeaceae: QK524.S35
- Schizomida
  - Zoology: QL458.69+
- Schizomidae
  - Zoology: QL458.692.H82
- Schizophyceae: QR99.6+
- Schizopoda
  - Paleozoology: QE817.S3
- Schizopteridae: QL523.S3
- Schlieren apparatus
  - Optical instruments: QC373.S3
- Schrödinger operator
  - Quantum mechanics: QC174.17.S3
- Schungite
  - Petrology: QE475.S39
- Schwinger action principle
  - Quantum mechanics: QC174.17.S32
- Sciadoceridae: QL537.S35
- Sciadopityaceae: QK494.5.S35
- Sciaenidae: QL638.S34
- Sciaridae: QL537.S357
- Science: Q1+
  - Science and sociology: Q175.4+
  - Science and state: Q124.6+
  - Science and the public: Q225+
  - Science as a profession: Q147+
  - Science (Curriculum)
    - Secondary education: Q181+
  - Science experiments: Q182.3
  - Science experiments at home: Q164
  - Science experiments for children: Q164
  - Science fairs: Q182.4
  - Science indicators: Q172.5.S34
  - Science information centers: Q223.2+
  - Science laboratories: Q180.56+
  - Science museums: Q105.A1+
  - Science news: Q225+
  - Science projects: Q182.3
  - Science readers in English: Q209
  - Science recreations: Q164
  - Science secretaries: Q227
- Sciences
  - Classification: Q177
- Scientific atlases: Q161.7
- Scientific correspondence: Q227
- Scientific curiosa: Q173
- Scientific errors: Q172.5.E77
- Scientific ethics: Q175.35+
- Scientific fraud: Q175.37
- Scientific instruments and apparatus: Q184+
- Scientific language: Q226
- Scientific literature: Q225.5
- Scientific voyages and expeditions: Q115+



## INDEX

- Scincidae: QL666.L28  
 Scintillation  
     Radio waves: QC676.7.S35  
 Scintillation counters: QC787.S34  
 Scintillators  
     Radiation physics: QC476.7+  
 Sciomyzidae: QL537.S365  
 Sciophilidae: QL537.S367  
 Scissurellidae: QL430.5.S25  
 Scitamineae: QK495.A14  
 Sciuridae: QL737.R68  
 Sclerodermataceae: QK629.S35  
 Sclerogibbidae: QL568.S34  
 Sclerotiniaceae: QK623.S3  
 Scolecomorphidae: QL668.A68  
 Scoliidae: QL568.S38  
 Scolopacidae: QL696.C48  
 Scolopendrellidae: QL449.85.S25  
 Scolopendridae: QL449.55.S3  
 Scolytidae: QL596.S35  
 Scolytoplatypodidae: QL596.S353  
 Scomberesocidae: QL638.S347  
 Scombridae: QL638.S35  
 Scopelarchidae: QL638.S374  
 Scopelosauridae: QL638.N5873  
 Scopthalmidae: QL638.S38  
 Scopidae: QL696.C58  
 Scorpaenidae: QL638.S42  
 Scorpaeniformes: QL637.9.S35  
 Scorpiones: QL458.7+  
 Scorpionfishes: QL638.S42  
 Scorpionflies  
     Paleozoology: QE832.M43  
     Zoology: QL598.5+  
 Scorpionida  
     Paleozoology: QE826.S4  
     Zoology: QL458.7+  
 Scorpionidae: QL458.72.S3  
 Scorpions  
     General: QL451+  
 Scraptiidae: QL596.S38  
 Scratch (Computer program language): QA76.73.S345  
 Screammers  
     Zoology: QL696.A53  
 Screen savers  
     Computer software: QA76.76.S37  
 Screw pine  
     Botany: QK495.P18  
 Screw theory  
     Kinematics: QA841+  
 Scrophulariaceae: QK495.S43  
 Scrubbirds: QL696.P218  
 Scuba diving  
     Effect on plants and animals: QH545.S4  
 Sculptins: QL638.C8  
 Scutacaridae: QL458.2.S3  
 Scutelleridae: QL523.S4  
 Scutigerellidae: QL449.85.S3  
 Scutigerae: QL449.55.S37  
 Scydmaenidae: QL596.S4  
 Scylorinidae: QL638.95.S38  
 Scyphomedusae: QL377.S4  
     Paleozoology: QE780  
 Scyphostegiaceae: QK495.S45  
 Scyphozoa: QL377.S4  
     Paleozoology: QE780  
 Scytalinidae: QL638.S45  
 Scythridae: QL561.S35  
 Scytodidae: QL458.42.S3  
 Scytonemataceae: QR99.7.S39  
 Scytopetalaceae: QK495.S47  
 Scytosiphonaceae: QK569.S36  
 SDL (Computer program language): QA76.73.S35  
 Sea basses  
     Zoology: QL638.S48  
 Sea birds  
     Zoology: QL678.52+  
 Sea breezes  
     Meteorology: QC939.L37  
 Sea catfishes: QL638.A755  
 Sea chubs: QL638.K9  
 Sea cucumbers: QL384.H7  
 Sea ecology: QH541.5.S3  
 Sea-floor spreading: QE511.7  
 Sea otters  
     Anecdotes and stories: QL795.O8  
 Sea reptiles: QL665.5  
 Sea salt aerosols  
     Meteorology: QC929.S43  
 Sea serpents: QL89.2.S4  
 Sea snakes: QL666.O64  
 Sea urchins: QL384.E2  
 Seabed ecology: QH541.5.O24  
 Seaborgium  
     Chemical element: Q1 .S55  
 Seadevils: QL638.C35  
 Seafood  
     Nutrition: QP144.F56  
 Seahorses  
     Zoology: QL638.S9  
 Seals  
     Anecdotes and stories: QL795.S43  
     Zoology: QL737.P64  
 Searobins: QL638.T8  
 Searsidae: QL638.P63  
 Seashore biology: QH95.7  
 Seashore ecology: QH541.5.S35  
 Seashores  
     Botany: QK938.S36  
     Ecology: QH541.5.S35  
 Seasonal habits  
     Animal behavior: QL753+  
 Seasons  
     Astronomical geography: QB637.2+

## INDEX

- Seasons
  - Mars (Planet): QB643.S42
- Seawater
  - Microbiology: QR106+
- Seawater fertilization
  - Effect on plants and animals: QH545.S43
- Sebaceous glands
  - Physiology: QP188.S43
- Sebum
  - Physiology: QP222
- Second messengers
  - Animal biochemistry: QP517.C45
  - Endocrine glands: QP187.3.S42
- Second sound
  - Statistical physics: QC175.25.S4
- Secondary cosmic rays: QC485.9.S4
- Secondary ion emission
  - Electric discharge: QC702.7.E4
- Secondary ion mass spectroscopy
  - Analytical chemistry: QD96.S43
- Secretaries
  - Science: Q227
- Secretarybirds: QL696.F38
- Secretin
  - Animal biochemistry: QP572.S34
- Secretion
  - Plant ecology: QK923
- Secretions
  - Physiology: QP190+
- Sectioning of microscope specimens: QH233
- Sector focused cyclotrons
  - Nuclear physics: QC787.S4
- Secular variation
  - Geomagnetism: QC828
- Security, Computer: QA76.9.A25
- Sedge
  - Botany: QK495.C997
- Sedimentary basins: QE615+
- Sedimentary rocks: QE471+
- Sedimentary structures
  - Petrology: QE472
- Sedimentation
  - Antigen-antibody reactions: QR187.S4
  - Blood physiology: QP99.5.S4
  - Geology: QE571+
- Sedimentation analysis
  - Analytical chemistry: QD79.S4
- Sedimentology: QE471+
- Sediments, Unconsolidated
  - Petrology: QE471.2
- Seed
  - Reproductive organs or spermatophytes: QK661
- Seed beetles: QL596.B7
- Seed shrimps: QL444.O8+
- Seeds, Fossil: QE996.5
- Seedsnipes: QL696.C49
- Segmental anatomy: QL950.9
- Segmented worms: QL391.A6
- Segregation
  - Genetics: QH444
- Seismic event location: QE539.2.S37
- Seismic instruments: QE541
- Seismic models: QE539.2.S4
- Seismic networks
  - Earthquakes: QE540.A2+
- Seismic travelttime inversion: QE539.2.S43
- Seismic waves: QE538.5
- Seismograms: QE541
- Seismology
  - Geology: QE531+
- Seismology, Extraterrestrial: QB455.5
- Seismometry: QE541
- Selaginellaceae: QK524.S46
- Selaginellales
  - Paleobotany: QE971
- Selection
  - Mathematical statistics: QA278.75
- Selection, Artificial
  - Plants: QK985
- Selection, Natural
  - Plants: QK985
- Selenastraceae: QK569.S43
- Selenides
  - Mineralogy: QE389.2
- Selenium
  - Chemical element: Q1 .S5
  - Effect on plants and animals: QH545.S45
  - Plant constituent: QK898.S45
  - Semiconductor physics: QC611.8.S44
- Selenium compounds
  - Spectra: QC464.S45
- Selenomethionine
  - Animal biochemistry: QP562.S45
- Selenopidae: QL458.42.S44
- Seleviniidae: QL737.R682
- Self-adaptive software: QA76.76.S375
- Self-organization, Geochemical: QE515.5.G45
- Self-organizing systems (Science): Q325+
- Self-quenching counters
  - Nuclear physics: QC787.S45
- Self-similar processes
  - Stochastic processes: QA274.9
- Self-stabilization
  - Computer science: QA76.9.S54
- Selfish genetic elements: QH447.8.S45
- Seligeriaceae: QK539.S46
- Semantic computing
  - Digital computers: QA76.5913
- Semantic networks
  - Information theory: Q387.5
- Semaphorins
  - Animal biochemistry: QP552.S32
- Sematuridae: QL561.S44
- Semelidae: QL430.7.S43

## INDEX

- Semen
  - Physiology: QP255
- Semiarid regions
  - Botany: QK938.S4
- Semiconductor lasers: QC689.55.S45
- Semiconductor physics: QC610.9+
- Semiconductors
  - Analytical chemistry: QD139.S44
  - Photochemistry: QD730.S35
  - Polymers: QD382.S4
- Semigroups
  - Algebra: QA182
  - Quantum mechanics: QC174.17.S36
- Semilattices
  - Algebra: QA171.49
- Semimartingales
  - Stochastic processes: QA274.5
- Semimetals
  - Semiconductor physics: QC611.8.S45
- Seminal proteins
  - Animal biochemistry: QP552.S35
- Semionotiformes
  - Paleozoology: QE852.S4
- Senescence
  - Biology: QH529
  - Developmental physiology: QP86
  - Plant physiology: QK762.5+
- Senoculidae: QL458.42.S45
- Sensation
  - Physiology: QP431+
- Sense of movement
  - Physiology: QP454
- Sense organs
  - Anatomy: QL945+
  - Human anatomy: QM501+
  - Physiology: QP431+
- Senses
  - Physiology: QP431+
- Sensitization
  - Neurophysiology: QP365.2
- Sensitized fluorescence: QC477.4
- Sensorimotor cortex
  - Neurophysiology: QP383.15
- Sensory receptors
  - Physiology: QP447+
- Separation
  - Biological research: QH324.9.S4
  - Chemistry: QD63.S4
  - Polymers: QD381.9.S44
- Separation (Technology)
  - Animal biochemistry: QP519.9.S45
- Sepiida
  - Paleozoology: QE807.S4
- Sepiidae: QL430.3.S47
- Sepiolidae
  - Zoology: QL430.3.S49
- Sepiolite
  - Mineralogy: QE391.M34
- Sepsidae: QL537.S4
- Septins
  - Animal biochemistry: QP552.S37
- Septirhynchiidae
  - Paleozoology: QE797.S4
- Septobasidiaceae: QK626.5
- Septobasidiales: QK626.5
- Sequences
  - Mathematics: QA292
- Sequences of integers
  - Number theory
    - Algebra: QA246.5
- Sequential analysis
  - Mathematical statistics: QA279.7
- Sequential machines
  - Algebra: QA267.5.S4
- Sequestration, Carbon
  - Geochemistry: QE516.C37
- Serendipity in science: Q172.5.S47
- Sericin
  - Animal biochemistry: QP552.S4
- Sericostomatidae: QL518.S4
- Seriemas: QL696.G827
- Series
  - Mathematics: QA295
- Serine proteinases
  - Animal biochemistry: QP609.S47
- Serotonin
  - Animal biochemistry: QP801.S4
- Serpentes
  - Paleozoology: QE862.O6
- Serpentine
  - Mineralogy: QE391.S47
- Serpentines
  - Botany: QK938.S45
- Serpentinite
  - Petrology: QE475.S47
- Serpents
  - Alleged animals: QL89.2.S44
- Serranidae: QL638.S48
- Serrasalmidae: QL638.C5
- Serratia diseases
  - Microbiology: QR201.S47
- Serritermitidae: QL529.3.S47
- Serrivomeridae: QL638.S485
- Serropalpidae: QL596.S45
- Serum
  - Physiology: QP99
- Serum albumin
  - Blood constituents: QP99.3.A4
- Serum-free culture media
  - Cytology: QH585.3
- Sesiidae: QL561.S47
- Sesquiterpene lactones
  - Plant constituent: QK898.S48

## INDEX

- Sesquiterpenes
  - Plant constituent: QK898.S49
- Set theory
  - Algebra: QA248+
  - Statistical physics: QC174.85.S46
- Setomorphidae: QL561.T55
- Sewage
  - Effect on plants and animals: QH545.S49
- Sewage sludge
  - Effect on plants and animals: QH545.S493
- Sex
  - Physiology: QP251+
- Sex chromosomes
  - Cytology: QH600.5
- Sex determination
  - Physiology: QP278.5
- Sex determination, Genetic
  - Physiology: QP278.5
- Sex determination, Temperature-dependent
  - Physiology: QP278.53
- Sex differentiation
  - Physiology: QP278
- Sex hormones
  - Animal biochemistry: QP572.S4
- Sex linkage
  - Genetics: QH445.5
- Sex physiology, Female: QP259+
- Sex physiology, Male: QP253+
- Sex preselection
  - Physiology: QP279
- Sexadecimal system: QA141.8.S4
- Sexagesimal system: QA141.8.S5
- Sexual behavior
  - Animals: QL761
- Sexual orientation
  - Animal life: QP81.6
- Sexual reproduction
  - Biology (General): QH481+
  - Plant physiology: QK827+
- Sexually transmitted diseases vaccines: QR189.5.S48
- Sferics
  - Meteorology: QC973.4.A85
- Shades and shadows
  - Descriptive geometry: QA519
- Shadowing systems
  - Topology: QA614.84
- Shadows
  - Descriptive geometry: QA519
- Shale
  - Petrology: QE471.15.S5
- Shape of bacteria: QR75.5
- Shape of the moon: QB585
- Shape of viruses: QR452
- Shareware
  - Computer software: QA76.76.S46
- Shark attacks: QL638.93
- Shark repellents: QL638.93
- Sharks
  - Anecdotes and stories: QL795.S46
  - Laboratory manuals: QL813.F57
  - Zoology: QL638.9+
- Sharpbills: QL696.P259
- Shearwaters: QL696.P665
- Sheathbills: QL696.C435
- Sheaths
  - Plasma physics: QC718.5.S4
- Sheaves
  - Topology: QA612.36
- Shedding of leaves: QK763
- Shell stars: QB843.S53
- Shellfish
  - Microbiology: QR118
- Shield bearers (Lepidoptera): QL561.H448
- Shield-tailed snakes: QL666.O688
- Shigellosis
  - Microbiology: QR201.S55
- Shikimic acid
  - Animal biochemistry: QP801.S44
  - Plant constituent: QK898.S55
- Shining fungus beetles: QL596.P46
- Shock waves
  - Gas dynamics: QC168.85.S45
  - Plasma physics: QC718.5.W3
- Shoebill: QL696.C525
- Shoemaker-Levy 9 comet: QB723.S56
- Shoot
  - Plant anatomy: QK645+
- Shore birds
  - Zoology: QL678.5+
- Shore protection
  - Effect on plants and animals: QH545.S498
- Shorebugs: QL523.S25
- Short-range weather forecasting: QC997.5
- Shotgun pellets
  - Effect on plants and animals: QH545.S5
- Showers
  - Cosmic ray physics: QC485.8.S5
- Showers, Meteor: QB745+
- Showers of miscellaneous matter
  - Meteorology: QC929.S5
- Shrews: QL737.S75
  - Anecdotes and stories: QL795.S47
- Shrike vireos: QL696.P294
- Shrikes: QL696.P248
- Shrimps
  - Zoology: QL444.M33
- Shrubland ecology: QH541.5.S55
- Shrublands
  - Botany: QK938.S57
  - Ecology: QH541.5.S55
- Shrubs
  - Botany: QK474.8+
- Sialic acid
  - Animal biochemistry: QP801.S47

## INDEX

- Sialidae
  - Zoology: QL514.7.S52
- Siamang: QL737.P943
- Sicariidae: QL458.42.S5
- Sicklefishes: QL638.D73
- Sideral time
  - Astronomy: QB211
- Siderite
  - Mineralogy: QE391.S49
- Siderites
  - Astronomy: QB757+
- Siderolites: QB759
- Siderophores
  - Microbial metabolism: QR92.S53
- Siderostats
  - Astronomical instruments: QB97
- Sierolomorphidae: QL568.S5
- Siganidae: QL638.S5
- Sigma particles
  - Elementary particle physics: QC793.5.H42+
- Signal transduction, Cellular
  - Animal biochemistry: QP517.C45
- Signoretidae: QL527.S5
- Signs, Animal: QL768
- Sikhote-Alin meteorite: QB756.S5
- Silica
  - Dielectrics: QC585.75.S55
- Silicates
  - Mineralogy: QE389.62+
  - Spectra: QC464.S54
- Silicoflagellates: QK569.S53
- Silicon
  - Chemical element: Q1 .S6
  - Effect on plants: QK753.S5
  - Semiconductor physics: QC611.8.S5
- Silicon compounds
  - Aliphatic compounds: QD305.S54
- Silicon organic compounds
  - Analytical chemistry: QD139.S5
- Silicon polymers
  - Organic chemistry: QD383.S54
- Siliculidae: QL430.7.S5
- Silk oak
  - Botany: QK495.P957
- Silktassel bush
  - Botany: QK495.G26
- Silkworm moths: QL561.B6
- Silky flycatchers: QL696.P267
- Sillaginidae: QL638.S54
- Sillimanite
  - Mineralogy: QE391.S5
- Silphidae: QL596.S5
- Siltstone: QE471.15.S54
- Silurian
  - Paleobotany: QE917
  - Paleontology: QE727
  - Stratigraphy: QE661+
- Siluridae
  - Zoology: QL638.S6
- Siluriformes: QL637.9.S5
- Silvanidae: QL596.S49
- Silver
  - Chemical element: Q1 .A3
  - Effect on plants and animals: QH545.S55
- Silver alloys
  - Analytical chemistry: QD137.S5
- Silver chloride
  - Spectra: QC464.S546
- Silver ores
  - Mineralogy: QE390.2.S55
- Silverbell tree
  - Botany: QK495.S9
- Silversides: QL638.A8
- Silvicolidae: QL537.S54
- Silylation
  - Organic chemistry: QD281.S5
- Simaroubaceae: QK495.S59
- Simenchelyidae: QL638.S64
- Simian virus 40
  - Virology: QR406.2.S56
- Simonsiellaceae: QR82.S5
- Simulated annealing
  - Chemistry: QD39.3.S55
- Simulation
  - Philosophy of science: Q175.32.S5
- Simulation methods
  - Animal behavior: QL751.65.S55
  - Ecology: QH541.15.S5
- Simuliidae: QL537.S55
- Simultaneity
  - Relativity physics: QC173.59.S56
- Simultaneous equations: QA214
- Single nucleotide polymorphisms
  - Genetics: QH447.63.S56
- Singularities
  - Mathematical physics: QC20.7.S54
  - Meteorology: QC880.4.S56
- Sinodendridae: QL596.S53
- Siparunaceae: QK495.S62
- Siphonuridae: QL505.3.S5
- Siphonaptera
  - Paleozoology: QE832.S47
  - Zoology: QL599.5+
- Siphonariidae: QL430.5.S56
- Siphoniulidae: QL449.65.S56
- Siphonocladaceae: QK569.S56
- Siphonophoridae: QL449.65.S565
- Siphonostomatoida: QL444.C79
- Sipuncula: QL391.S5
- Sirenia
  - Paleozoology: QE882.S6
- Sirenidae: QL668.C285
- Siricidae: QL568.S57
- Sironidae: QL458.52.S5

## INDEX

- Sisoridae: QL638.S68
- Sisyridae: QL513.S65
- Site-specific mutagenesis: QH465.5
- Sittidae: QL696.P275
- Sixgill stingrays: QL638.85.H48
- Size effects
  - Thin films: QC176.84.S49
- Size in visual space perception
  - Neurophysiology: QP492
- Size of bacteria: QR75.3
- Size of raindrops: QC926.24
- Size of the sun: QB539.S5
- Size of viruses: QR451
- Skates (Fishes)
  - Zoology: QL638.85.R3
- Skeleton
  - Anatomy: QL821+
  - Human anatomy: QM101+
- Skew algebraic curves: QA581
- Skiing
  - Effect on plants and animals: QH545.S56
- Skimmers: QL520.3.L6
- Skimmers (Birds): QL696.C479
- Skin
  - Anatomy: QL941+
  - Microbiology: QR171.S5
  - Physiology: QP88.5
- Skin effect
  - Electricity: QC612.S6
- Skin, External
  - Human anatomy: QM484
- Skin glands
  - Anatomy: QL943
  - Human anatomy: QM491
- Skin nerves
  - Physiology: QP369+
- Skin secretions
  - Physiology: QP220+
- Skinks
  - Zoology: QL666.L28
- Skipperflies: QL537.P56
- Skippers (Lepidoptera): QL561.H5, QL561.M42
- Skipping
  - Physiology: QP310.S45
- Skuas
  - Zoology: QL696.C46
- Skull
  - Anatomy: QL822
  - Human anatomy: QM105
- Skunks
  - Anecdotes and stories: QL795.S55
  - Zoology: QL737.C248
- Sky
  - Color: QC976.C6
- Sky, Southern: QB500.3
- Sleep
  - Physiology: QP425+
- Sleep behavior
  - Animal behavior: QL755.3+
- Sleeper sharks: QL638.95.D3
- Slender blind snakes: QL666.O65
- Slide rules (Mathematical instruments): QA73
- Slime layers
  - Microbiology: QR77.5
- Slime molds
  - Botany: QK635.A1+
- Slit die rheometers: QC189.55.S58
- Slit-faced bats: QL737.C565
- Sloths
  - Anecdotes and stories: QL795.S6
- Slow neutrons
  - Elementary particle physics: QC793.5.S62+
- Slug caterpillar moths: QL561.D25, QL561.L54
- Small interfering RNA
  - Animal biochemistry: QP623.5.S63
- Smallpox
  - Microbiology: QR201.S6
- Smallpox vaccine: QR189.5.S6
- Smectite
  - Mineralogy: QE391.S6
- Smell
  - Physiology: QP458
- Smelts
  - Zoology: QL638.O84
- Smicripidae: QL596.S6
- Smilacaceae: QK495.S65
- Sminthuridae: QL503.S6
- Smoke influences
  - Meteorology: QC929.S6
- Smoke plumes
  - Atmospheric pollutants: QC882.6
- Smoky bats: QL737.C53
- Smooth affine curves: QA567.2.S56
- Smooth muscle
  - Physiology: QP321.5
- Smoothing
  - Numerical analysis: QA297.6
- Smut fungi: QK628.A1+
- Snailfishes: QL638.C9
- Snails: QL430.4+
- Snake-birds: QL696.P42
- Snake eels: QL638.O633
- Snake mackerels: QL638.G4
- Snake toxins
  - Animal biochemistry: QP632.S65
- Snake venoms
  - Animal biochemistry: QP632.S65
- Snakeflies: QL514.9.R35
- Snakes
  - Anecdotes and stories: QL795.S65
  - Zoology: QL666.O6+
- Snapdragon
  - Botany: QK495.S43

## INDEX

- Snapper
  - Zoology: QL638.L9
- Sneezing
  - Physiology: QP123.8
- Snipe eels: QL638.N34
- Snipefishes: QL638.C32
- Snipeflies: QL537.R4
- Snipes: QL696.C48
- Snooks: QL638.C34
- Snout beetles: QL596.C9
- Snow
  - Effect on plants: QK754.7.S55
  - Freshwater biology: QH100
  - Meteorology: QC926.3+
- Snow ecology: QH541.5.S57
- Snow grooming
  - Effect on plants and animals: QH545.S56
- Snowmobiles
  - Effect on plants and animals: QH545.S6
- Soapberry
  - Botany: QK495.S19
- Soapfishes: QL638.G848
- Soapstone
  - Petrology: QE475.S6
- Social aspects
  - Chemistry: QD39.7
  - Computers: QA76.9.C66
  - Genetics: QH438.7
  - Mathematics: QA10.7
  - Science: Q175.4+
- Social life
  - Birds: QL698.3
  - Insects: QL496
- Social relations
  - Animals: QL775
- Sociogenomics: QH457.5
- Sodium
  - Chemical element: Q1 .N2
- Sodium fluoride
  - Effect on plants: QK753.S57
- Sodium halides
  - Spectra: QC464.S63
- Sodium hydride
  - Spectra: QC464.S635
- Sodium nitroferricyanide
  - Spectra: QC464.S637
- Sodium-potassium ATPase
  - Animal biochemistry: QP609.S63
- Sodium sulfate
  - Effect on plants: QK753.S6
- Soft computing
  - Computer science: QA76.9.S63
- Soft condensed matter
  - Condensed matter physics: QC173.458.S62
- Soft scales
  - Zoology: QL527.C6
- Softshell turtles
  - Zoology: QL666.C587
- Software, Computer: QA76.75+
- Software ecosystems: QA76.76.S62
- Software engineering: QA76.758
- Software failures: QA76.76.F34
- Software frameworks: QA76.76.S63
- Software maintenance: QA76.76.S64
- Software measurement: QA76.76.S65
- Software patterns: QA76.76.P37
- Software reengineering: QA76.758
- Software support: QA76.76.S66
- Sogonidae: QL449.55.S63
- Soil amendments
  - Effect on plants and animals: QH545.S63
- Soil ecology: QH541.5.S6
- Soil erosion
  - Effect on plants and animals: QH545.S64
- Soil fauna: QL110+
- Soil fungi: QR111+
- Soil microbiology: QR111+
- Soils
  - Biogeography: QH84.8
  - Microbiology: QR111+
- Solanaceae: QK495.S7
- Solanine
  - Plant constituent: QK898.S64
- Solar activity
  - Astronomy: QB524+
  - Meteorology: QC883.2.S6
- Solar atmosphere: QB528
- Solar chromosphere: QB528
- Solar climate
  - Meteorology: QC883.2.S6
- Solar compass: QB105
- Solar composition: QB539.C6
- Solar constant
  - Solar radiation: QC912.2.S64
- Solar cosmic rays: QC485.9.S6
- Solar cycles: QB526.C9
- Solar eclipses: QB541+
- Solar energetic particles: QB526.S65
- Solar flares: QB526.F6
- Solar flocculi: QB526.F64
- Solar magnetic fields: QB539.M23
- Solar neutrinos: QB539.S65
- Solar noise storms: QB539.N6
- Solar nuclear reactions: QB539.N8
- Solar oscillations: QB539.O83
- Solar parallax: QB508+
- Solar plages: QB526.F64
- Solar prominences: QB526.P7
- Solar radiation
  - Meteorology: QC910.2+
  - Sun: QB531
- Solar radio effects: QB539.R3

## INDEX

- Solar spectrum
  - Physics: QC455
- Solar system
  - Astronomy: QB500.5+
- Solar temperature: QB531
- Solar-terrestrial relations: QB539.T4
- Solar time
  - Astronomy: QB211
- Solar wind: QB529+
- Solar x-rays: QB539.S655
- Solaris
  - Computer software
    - Operating systems: QA76.774.S65
- Soldier beetles: QL596.C15
- Soldier flies: QL537.S84
- Sole
  - Zoology: QL638.S7
- Soleidae: QL638.S7
- Solemyidae: QL430.7.S58
  - Paleozoology: QE812.S6
- Solemyoida
  - Paleozoology: QE812.S62
- Solendons: QL737.S74
- Solenidae: QL430.7.S6
- Solenodontidae: QL737.S74
- Solenogasters: QL430.1+
- Solenostomidae: QL638.S73
- Solid analytic geometry: QA553
- Solid geometry: QA475
- Solid geometry textbooks: QA457
- Solid-liquid interfaces
  - Surface chemistry: QD509.S65
- Solid state chemistry: QD478
- Solid-state physics: QC176+
- Solidification
  - Physics: QC303
- Solidity in visual space perception
  - Neurophysiology: QP492
- Solids
  - Atomic physics: QC176+
  - Theoretical chemistry: QD478
  - Vaporization: QC309
- Solifugae: QL458.8+
  - Paleozoology: QE826.S6
- Solitaires
  - Zoology: QL696.C67
- Solitons
  - Atomic physics: QC174.26.W28
- Solpugida: QL458.8+
- Solpugidae: QL458.82.S6
- Sols
  - Physical chemistry: QD549+
- Solubility
  - Physical chemistry: QD543
  - Polymers: QD381.9.S65
- Solution, Heat of
  - Physics: QC310
- Solution, Theory of
  - Physical chemistry: QD540+
- Solutions
  - Polymers: QD381.9.S65
- Solutions, Supersaturated
  - Physical chemistry: QD548
- Solvent, Universal
  - Alchemy: QD26.5.A4
- Solvents
  - Physical chemistry: QD544+
  - Spectra: QC463.S72
- Solvidae: QL537.S6
- Solvolyis
  - Organic chemistry: QD281.S6
- Somatic nervous system
  - Neurophysiology: QP369+
- Somatomedin
  - Animal biochemistry: QP552.S65
- Somatostatin
  - Animal biochemistry: QP572.S59
- Somatotropin
  - Animal biochemistry: QP572.S6
- Somesthesia
  - Physiology: QP448+
- Sommerfeld polynomial method
  - Quantum mechanics: QC174.17.S6
- Somniosidae: QL638.95.D3
- Song
  - Birds: QL698.5
- Soniphilidae: QL449.55.S66
- Sonneratiaceae: QK495.S74
- Sonochemistry
  - Chemistry: QD801
- Sonoluminescence
  - Radiation physics: QC480.2
- Sorbitol
  - Animal biochemistry: QP702.S6
- Sordariaceae: QK623.S6
- Soricidae: QL737.S75
- Soricomorpha: QL737.S7+
  - Paleozoology: QE882.S67
- Sound
  - Physics: QC221+
- Sound, light and heat: QC220+
- Sound localization
  - Neurophysiology: QP469
- Sound production
  - Animal behavior: QL765
  - Insects: QL496.5
- Sound propagation: QC233
- Sound waves
  - Physics: QC242.8+
- Sounding balloons
  - Meteorology: QC879.3+
- Sour gum
  - Botany: QK495.N975
- SOURCE (Videotex system): QA76.57.S68



## INDEX

- Sources of radiation
  - Radiation physics: QC476.S6
- Southern sky: QB500.3
- Space
  - Descriptive astronomy: QB495+
- Space and time
  - Elementary particle physics: QC793.3.S57
  - Relativity physics: QC173.59.S65
- Space astronomy: QB136
- Space biology
  - Biology: QH327+
- Space flight
  - Effect on plants: QK760
- Space microbiology: QR130
- Space optics: QB500.26.S67
- Space perception
  - Physiology: QP443
- Space perception, Visual
  - Physiology: QP491+
- Space plasmas
  - Geophysics: QC809.P5
- Space radiobiology: QH328
- Space sciences
  - Descriptive astronomy: QB495+
- Spadefishes: QL638.E6
- Spaghetti eels: QL638.M675
- Spalacidae: QL737.R666
- Spallation
  - Nuclear physics: QC794.8.S7
- Sparassidae: QL458.42.H48
- Sparassodonta
  - Paleozoology: QE882.M39
- Sparattidae: QL510.3.S6
- Sparganiaceae: QK495.S745
- Sparidae: QL638.S74
- Spark chambers
  - Nuclear physics: QC787.S55
- SPARK (Computer program language): QA76.73.S59
- Spark discharge
  - Physics: QC703+
- Spark spectroscopy
  - Physics: QC454.S7
- SPARQL (Computer program language): QA76.73.S62
- Spatial ecology: QH541.15.S62
- Spatial orientation
  - Physiology: QP443
- Spawning
  - Fishes: QL639.2
  - Mollusca: QL431.3
- Special arc measures
  - Geodesy: QB291
- Speciation
  - Biology: QH380
  - Fishes: QL618.2
  - Insects: QL468.7
  - Mammals: QL708.5
  - Mollusca: QL406.7
- Speciation
  - Reptiles and amphibians: QL645.4
- Species diversity
  - Ecology: QH541.15.S64
  - Marine biology: QH91.8.S64
- Specific graving
  - Measurement: QC111+
- Specific gravity determinations
  - Determinative mineralogy: QE369.S6
- Specific heat of gases and vapors: QC297
- Specific heat of solids and liquids: QC295
- Specificity
  - Immunology: QR186.9
- Specimen catalogs
  - Descriptive mineralogy: QE387
  - Geology: QE55
- Speckle
  - Optics: QC427.8.S64
- Speckle metrology
  - Optical measurements: QC367.3.S64
- Spectra
  - Auroras: QC972.S6
  - Condensed matter physics: QC173.458.S64
  - Stellar spectroscopy: QB883
  - Superconductors: QC611.97.S64
- Spectral geometry: QA614.95
- Spectral lines: QC467
- Spectral sequences
  - Topology: QA612.8
- Spectral theory
  - Geophysics: QC809.S67
  - Mathematical physics: QC20.7.S64
- Spectrograph
  - Optical instruments: QC373.S7
- Spectrometer
  - Nuclear physics: QC787.S6
  - Optical instruments: QC373.S7
- Spectrophotometry
  - Animal biochemistry: QP519.9.S58
  - Biological research: QH324.9.S53
  - Organic chemistry: QD272.S57
  - Quantitative analysis: QD117.S64
- Spectroscopic observations (Double stars): QB903
- Spectroscopy
  - Animal biochemistry: QP519.9.S6
  - Biological research: QH324.9.S6
  - Physics: QC450+
  - Planets: QB603.S6
  - Plasma physics: QC718.5.S6
  - X-rays: QC482.S6
- Spectroscopy, Astronomical: QB465
- Spectroscopy, Luminescence
  - Physics: QC476.6
- Spectroscopy of comets: QB780
- Spectroscopy of eclipses: QB551
- Spectroscopy of meteors: QB785
- Spectroscopy of moon: QB770

## INDEX

- Spectroscopy of planets: QB775
- Spectroscopy of sun: QB551
- Spectroscopy, Stellar: QB870+
- Spectrum analysis
  - Analytical chemistry: QD95+
  - Determinative mineralogy: QE369.S65
  - Electrochemistry: QD555.6.S65
  - Geology: QE33.2.S6
- Speech
  - Neurophysiology: QP399
  - Physiology: QP306
- Speed
  - Mechanics: QC137.5+
- Spelaeogriphacea: QL444.M37
- Sperchonidae: QL458.2.S7
- Sperm whales
  - Zoology: QL737.C435
- Spermatogenesis
  - Embryology: QL966
  - Plant anatomy: QK665
- Spermatophyta: QK474.8+
- Spermatozoa
  - Embryology: QL966
  - Immunology: QR186.6.S64
- Sphacelariaceae: QK569.S7
- Sphaeriaceae: QK623.S73
- Sphaeriales: QK623.S76
- Sphaeriidae: QL430.7.S65, QL596.S65
- Sphaeriodesmidiae: QL449.65.S64
- Sphaeroidaceae: QK625.S5
- Sphaeritidae: QL596.S66
- Sphaeroceridae: QL537.S7
- Sphaerodactylidae: QL666.L245
- Sphaerophoraceae: QK585.S64
- Sphaeropsidaceae: QK625.S5
- Sphaeropsidales: QK625.S6
- Sphaerosepalaceae: QK495.S7455
- Sphaerosomatidae: QL596.S68
- Sphaerotheridae: QL449.65.S645
- Sphagnaceae: QK539.S75
- Sphalerite
  - Mineralogy: QE391.S65
- Sphacidae: QL568.S7
- Sphene
  - Mineralogy: QE391.S67
- Spheniscidae: QL696.S473
- Sphenisciformes: QL696.S47+
  - Paleozoology: QE872.S4
- Sphenocleaceae: QK495.S7456
- Sphenodontidae: QL666.R48
- Sphenophyllales
  - Paleobotany: QE965
- Sphenopsida
  - Paleobotany: QE965
- Spherical astronomy: QB140+
- Spherical harmonics
  - Mathematical physics: QC20.7.S645
- Spherical projection
  - Descriptive geometry: QA520
- Spherical trigonometry: QA535
- Sphincters
  - Physiology: QP322
- Sphindidae: QL596.S7
- Sphingidae: QL561.S7
- Sphingolipids
  - Animal biochemistry: QP752.S6
- Sphinx moths: QL561.S7
- Sphyaenidae: QL638.S77
- Sphyrnidae: QL638.95.S7
- Spicebush
  - Botany: QK495.C15
- Spider beetles: QL596.P85
- Spider mites: QL458.2.T4
- Spider monkeys: QL737.P915
- Spider wasps: QL568.P6
- Spiderflower
  - Botany: QK495.C198
- Spiders
  - General: QL451+
  - Zoology: QL458.4+
- Spiderwort
  - Botany: QK495.C73
- Spikefishes: QL638.T695
- Spilites: QE462.S65
- Spin
  - Elementary particle physics: QC793.3.S6
- Spin geometry: QA671.5
- Spin glasses
  - Solid state physics: QC176.8.S68
- Spin labels
  - Biological research: QH324.9.S62
- Spin-lattice relaxation
  - Nuclear magnetism: QC762.6.S64
- Spin waves
  - Nuclear magnetism: QC762.6.S65
- Spinal cord
  - Anatomy: QL938.S6
  - Human anatomy: QM465
  - Neurophysiology: QP371
- Spinal nerves
  - Neurophysiology: QP367
- Spine muscles
  - Physiology: QP330
- Spinel
  - Mineralogy: QE391.S68
- Spinel group
  - Inorganic chemistry: QD172.S6
- Spines
  - Plant ecology: QK923
  - Shoots: QK650
- Spinor analysis: QA433
  - Mathematical physics: QC20.7.S65
- Spinturnicidae: QL458.2.S75
- Spiny eels: QL638.N58

## INDEX

- Spiny-headed worms: QL391.A2
- Spiny rats: QL737.R65
- Spiral galaxies: QB858.42
- Spiraxidae: QL430.5.S65
- Spiriferidae
  - Paleozoology: QE797.S7
- Spirillaceae: QR82.S6
- Spirochaetaceae: QR82.S7
- Spirostreptidae: QL449.65.S655
- Spirotricha: QL368.A22
- Spirulidae: QL430.3.S65
- Spittlebugs
  - Zoology: QL527.C4
- Splachnaceae: QK539.S76
- Splashes
  - Fluid mechanics: QC156
- Spleen
  - Anatomy: QL868
  - Human anatomy: QM371
  - Immunology: QR185.8.S65
  - Physiology: QP188.S7
- Spline theory
  - Algebra: QA224
- Spodumene
  - Mineralogy: QE391.S7
- Spondylidae: QL430.7.S68
- Sponges
  - Paleozoology: QE775
  - Zoology: QL370.7+
- Spongillaflies: QL513.S65
- Spongiphoridae: QL510.3.S66
- Spontaneous mutation
  - Genetic mutation: QH464
- Spookfishes: QL638.O657
- Spoonbills: QL696.C585
  - Paleozoology: QE872.T5
- Spores
  - Microbiology: QR79
- Spores, Fossil: QE996
- Sporidiales: QK627.8
- Sporidiobolaceae: QK627.8
- Sporozoa: QL368.A16
- Spot tests
  - Analytical chemistry: QD98.S6
- Spotted fever, Rocky Mountain
  - Microbiology: QR201.S65
- Spread-winged damselflies: QL520.3.L45
- Spreadsheets
  - Chemistry: QD39.3.S67
- Spring (Season)
  - Astronomy: QB637.5
- Springback
  - Elastic properties: QC191.5.S67
- Springhares: QL737.R672
- Springs
  - Ecology: QH541.5.S65
  - Freshwater biology: QH99
- Springs
  - Zoology: QL147
- Springs, Hot
  - Geology: QE528
- Springtails
  - Paleozoology: QE832.C63
- Spriobolidae: QL449.65.S65
- Spurge
  - Botany: QK495.E9
- Sputtering
  - Solid state physics: QC176.8.S72
- Sputtering, Magnetron
  - Solid state physics: QC176.8.M34
- Spyware: QA76.76.S69
- SQL (Computer program language): QA76.73.S67
- Squalidae: QL638.95.S84
- Squaliformes: QL638.94.S75
- Squall lines
  - Meteorology: QC880.4.S65
- Squalls
  - Meteorology: QC880.4.S65
- Squamata
  - Paleozoology: QE862.S65
  - Zoology: QL666.L19+
- Square root: QA119
  - Tables: QA49
- Squares and cubes
  - Tables: QA49
- Squatinidae: QL638.95.S88
- Squeezed light: QC446.3.S67
- Squid
  - Laboratory manuals: QL813.S69
- Squirrel monkeys: QL737.P925
- Squirrelfishes: QL638.H64
- Squirrels
  - Anecdotes and stories: QL795.S7
  - Zoology: QL737.R68
- St. Johnswort
  - Botany: QK495.G87
- Stability
  - DNA: QP624.5.S73
  - Mathematical physics: QC20.7.S68
  - Plasma physics: QC718.5.S7
- Stability of systems
  - Analytic mechanics: QA871
- Stable isotope tracers
  - Nutrition research: QP143.5.S73
- Stable isotopes
  - Analytical chemistry: QD75.4.S73
  - Ecology: QH541.15.S68
- Stachyuraceae: QK495.S76
- Stack effect: QC467
- Stackhouseiaceae: QK495.S765
- Staff tree
  - Botany: QK495.C385
- Stag beetles: QL596.L8

## INDEX

- Stagnant water
  - Zoology: QL149
- Staining
  - Microbiology: QR69.S7
  - Microscopy: QH237
- Stamens
  - Plant anatomy: QK658
- Standard model
  - Nuclear interactions: QC794.6.S75
- Standards
  - Computer science: QA76.9.S8
  - Mathematical physics: QC20.7.S73
- Standards and systems of time
  - Astronomy: QB223
- Standards for software
  - Computer science: QA76.76.S73
- Standards of length: QC101
- Standards of weights and measures: QC100.A2+
- Stangeriaceae: QK494.5.S8
- Stannite
  - Mineralogy: QE391.S73
- Stannum
  - Chemical element: Q1 .S7
- Staphyleaceae: QK495.S77
- Staphylinidae: QL596.S75
- Staphylococcal infections
  - Microbiology: QR201.S68
- Staphylococcal protein A
  - Microbial metabolism: QR92.S68
- Star-branched polymers
  - Organic chemistry: QD382.B73
- Star catalogs: QB6
- Star clusters: QB853+
- Star names: QB802
- Star occultations: QB392.O3
- Star reduction
  - Spherical astronomy: QB168
- Starbursts: QB806.5
- Starch
  - Animal biochemistry: QP702.S75
  - Organic chemistry: QD320+
  - Plant constituent: QK898.S67
- Starfishes: QL384.A8
- Stargazers: QL638.U7
- Stargazers' guides: QB63
- Starlings
  - Zoology: QL696.P278
- Stars
  - Astronomy: QB799+
  - Color: QB816
  - Cosmic ray physics: QC485.8.S8
- Stars, New: QB841
- Stars, Pulsating: QB838
- Stars, Temporary: QB841
- Stars, Variable: QB833+
- Startle reflex
  - Neurophysiology: QP372.6
- Starvation
  - Physiology: QP138.5
- State, Change of
  - Physics: QC301+
- State plants
  - Botany: QK84.8+
- Statics
  - Analytic mechanics: QA821+
- Stationary processes
  - Stochastic processes: QA274.3
- Statistica
  - Mathematical statistics: QA276.45.S83
- Statistical astronomy: QB149
- Statistical behavior
  - Plasma physics: QC718.5.S78
- Statistical dynamics
  - Atomic physics: QC174.7+
- Statistical mechanics
  - Atomic physics: QC174.7+
  - Elementary particle physics: QC793.3.S77
- Statistical methods
  - Analytical chemistry: QD75.4.C45
  - Animal behavior: QL751.65.S73
  - Botany: QK46.5.S7
  - Cosmology: QB991.S73
  - Ecology: QH541.15.S72
  - Freshwater biology: QH96.57.S73
  - Genetics: QH438.4.S73
  - Geology: QE33.2.S82
  - Geometrical and mathematical crystallography: QD919
  - Immunology: QR182.2.S7
  - Information theory: Q386
  - Microbiology: QR72
  - Mineralogy: QE364.2.S7
  - Nature conservation: QH77.3.S73
  - Paleontology: QE721.2.S7
  - Seismology: QE539.2.S73
- Statistical physics: QC174.7+
- Statistical thermodynamics: QC311.5
- Statistical weather forecasting: QC996.5
- Statistics as a profession: QA276.17
- Statistics, Mathematical: QA276+
- Staurolite
  - Mineralogy: QE391.S75
- Steatornithes
  - Paleozoology: QE872.S5
- Steatornithidae: QL696.C28
- Steel alloys
  - Analytical chemistry: QD133
- Steenrod algebra: QA612.782
- Steganopodes: QL696.P4+
  - Paleozoology: QE872.P4
- Stegocephala
  - Paleozoology: QE868.L3
- Stegostomatidae: QL638.95.S92
- Stellar atmospheres: QB809
- Stellar collisions: QB818.5

## INDEX

- Stellar diameters: QB818
- Stellar distance: QB813
- Stellar evolution: QB806
- Stellar magnitudes: QB815
- Stellar masses: QB814
- Stellar mergers: QB818.5
- Stellar motion: QB810+
- Stellar orbits: QB810+
- Stellar oscillations: QB812
- Stellar parallax: QB813
- Stellar populations
  - Distribution: QB819
- Stellar spectroscopy: QB870+
- Stellar structure: QB808
- Stellarators: QC791.77.S7
- Stelleroidea
  - Paleozoology: QE783.S8
- Stem
  - Plant anatomy: QK646+
- Stem cells
  - Cytology: QH588.S83
- Stem sawflies: QL568.C373
- Stemonaceae: QK495.S78
- Stemonitaceae: QK635.S8
- Stenochilida: QL458.42.S7
- Stenocotidae: QL527.S8
- Stenolaemata
  - Paleozoology: QE799.S74
- Stenomidae: QL561.S8
- Stenonite
  - Mineralogy: QE391.S77
- Stenopelmatidae
  - Zoology: QL508.S7
- Stephanidae: QL568.S8
- Stephanoberycidae: QL638.S785
- Stephanocircidae: QL599.7.S8
- Steppes
  - Ecology: QH541.5.P7
- Stercorariidae: QL696.C46
- Sterculiaceae: QK495.S8
- Stereaceae: QK629.S73
- Stereocaulaceae: QK585.S78
- Stereochemistry: QD481
  - Animal biochemistry: QP517.S83
- Stereographic projection
  - Structural geography: QE601.3.S83
- Stereophyllaceae
  - Botany: QK539.S84
- Stereoscope
  - Optical instruments: QC373.S8
- Sterility
  - Plant physiology: QK828
- Sterilization
  - Microbiology: QR69.S75
- Sternoptychidae: QL638.S8
- Sternopygidae: QL638.S83
- Sternum
  - Human anatomy: QM113
- Steroid-binding proteins
  - Animal biochemistry: QP552.S74
- Steroid hormones
  - Animal biochemistry: QP572.S7, QP752.S7
- Steroids
  - Animal biochemistry: QP752.S7
  - Biochemistry: QD426+
  - Microbial metabolism: QR92.S7
  - Plant constituent: QK898.S7
  - Spectra: QC463.S8
- Sterols
  - Animal biochemistry: QP752.S75
- Stibium
  - Chemical element: Q1 .S3
- Stichaeidae: QL638.S84
- Stichotrematidae: QL599.3.S85
- Stichtite
  - Mineralogy: QE391.S8
- Stick insects
  - Paleozoology: QE832.P45
  - zoology: QL509.5+
- Sticklebacks: QL638.G27
- Stictaceae: QK585.S8
- Stigmaeidae: QL458.2.S8
- Stigonemataceae: QR99.7.S85
- Stilbaceae: QK625.S7
- Stilbellaceae: QK625.S7
- Stilbopterygidae: QL513.S8
- Stiliferidae: QL430.5.S74
- Stiligeridae: QL430.5.S75
- Stilts
  - Zoology: QL696.C473
- Stingless bees: QL568.A6
- Stingrays: QL638.85.D3
- Stinkbugs
  - Zoology: QL523.P5
- Stiphidiidae: QL458.42.S73
- Stipules: QK649
- Stizidae: QL568.S85
- Stochastic analysis: QA274.2+
- Stochastic control theory
  - System analysis: QA402.37
- Stochastic differential equations: QA274.23
- Stochastic geometry: QA273.5
- Stochastic inequalities
  - Mathematical probabilities: QA274.223
- Stochastic integral equations: QA274.27
- Stochastic integrals: QA274.22
- Stochastic partial differential equations: QA274.25
- Stochastic processes
  - Mathematical physics: QC20.7.S8
  - Probabilities: QA274+
  - Quantum mechanics: QC174.17.S76
  - Statistical physics: QC175.25.S8
- Stochastic sequences: QA274.225

## INDEX

- Stomach
  - Anatomy: QL862
  - Human anatomy: QM341
  - Microbiology: QR171.S8
  - Physiology: QP151
- Stomata
  - Plant-water relationship: QK873
- Stomatopoda: QL444.M375
  - Paleozoology: QE817.S8
- Stomiatidae: QL638.S86
- Stonecrop
  - Botany: QK495.C79
- Stoneflies
  - Paleozoology: QE832.P55
  - Zoology: QL530+
- Stony-iron meteorites: QB759
- Stony meteorites
  - Astronomy: QB758+
- Stopping power
  - Nuclear interactions: QC794.6.S8
- Storage rings
  - Nuclear physics: QC787.S8
- Storks
  - Zoology: QL696.C535
- Storm petrels: QL696.P64
- Storm warnings: QC877
- Storms
  - Meteorology: QC940.6+
- Straight line and circle
  - Analytic geometry: QA557
- Straight lines
  - Plane geometry: QA482
- Straminipilous fungi: QK604.2.S86
- Strange particles
  - Elementary particle physics: QC793.5.S72+
- Strasburgeriaceae: QK495.S85
- Stratification
  - Geology: QE602
- Stratified sets
  - Differentiable manifolds
  - Topology: QA614.42
- Stratigraphic correlation: QE652.5+
- Stratigraphic paleontology: QE711+
- Stratigraphy
  - Geology: QE640+
- Stratiomyidae: QL537.S84
- Stratopause
  - Meteorology: QC881.2.S8
- Stratosphere
  - Meteorology: QC881.2.S8
- Stratus clouds: QC921.43.S8
- Stream channelization
  - Effect on plants and animals: QH545.S8
- Stream ecology: QH541.5.S7
- Stream plants: QK932.7
- Streams
  - Ecology: QH541.5.S7
- Streams
  - Freshwater biology: QH97
  - Plants: QK932.7
  - Zoology: QL145
- Streams of meteors: QB748.2
- Streblidae: QL537.S86
- Strepsimanidae: QL561.S87
- Strepsiptera
  - Paleozoology: QE832.S87
  - Zoology: QL599+
- Streptaxidae: QL430.5.S78
- Streptococcaceae: QR82.S78
- Streptococcus infections
  - Microbiology: QR201.S7
- Streptomycetaceae: QR82.S8
- Streptomycin
  - Organic chemistry: QD377.S8
- Streptothricin
  - Organic chemistry: QD377.S85
- Stress
  - Physiological effect: QP82.2.S8
- Stretch reflex
  - Neurophysiology: QP372.5
- Stretching
  - Physiology: QP310.S77
- Strigidae: QL696.S83
- Strigiformes: QL696.S8+
  - Paleozoology: QE872.S8
- String models
  - Nuclear interactions: QC794.6.S85
- Stringocephalidae
  - Paleozoology: QE797.S8
- Strings in sound vibrations: QC241
- Strip mining
  - Effect on plants and animals: QH545.S84
- Stripping voltammetry
  - Electrochemical analysis: QD116.V64
- Strobilomycetaceae: QK629.S76
- Stroboscopes
  - Optical instruments: QC373.S85
- Stromateidae: QL638.S87
- Stromatolites
  - Paleontology: QE955
- Stromatoporoidea
  - Paleozoology: QE779
- Strombidae: QL430.5.S8
- Strong interactions
  - Nuclear physics: QC794.8.S8
- Strongly coupled plasmas
  - Plasma physics: QC718.5.S83
- Strongylophthalmyiidae: QL537.S87
- Strongylopsalididae: QL510.3.S8
- Strontium
  - Chemical element: Q1 .S8
- Strophariaceae: QK629.S77
- Strophocheilidae: QL430.5.S83

## INDEX

- Strophomenida
  - Paleozoology: QE797.S89
- Strophomenidae
  - Paleozoology: QE797.S9
- Structural equation modeling
  - Mathematical statistics: QA278.3
- Structural geology: QE500+, QE601+
- Structuralism
  - Philosophy of science: Q175.32.S78
- Structure
  - Biochemistry: QD431.25.S85
  - Condensed matter physics: QC173.458.S75
  - DNA: QP624.5.S78
  - Elementary particle physics: QC793.3.S8
  - Nucleic acids: QD433.5.S77
  - Polymers: QD381.9.S87
  - Stars: QB808
- Structure-activity relationships
  - Animal biochemistry: QP517.S85
- Structured techniques
  - Computer science: QA76.9.S84
- Struthionidae: QL696.S9
- Struthioniformes: QL696.S87+
  - Paleozoology: QE872.S9
- Study and teaching
  - Algebra: QA159+
  - Analytic mechanics: QA808.8
  - Arithmetic: QA135+
  - Calculus: QA303.3
  - Computer science: QA76.27+
  - Elementary geometry: QA461+
  - Mathematical statistics: QA276.18+
  - Mathematics: QA10.92+
  - Moon: QB582.3
  - Probabilities: QA273.2+
  - Topology: QA611.17+
- Sturgeons
  - Zoology: QL638.A25
- Sturnidae: QL696.P278
- Stygocaridacea: QL444.M378
- Stylephoridae: QL638.S88
- Stylidiaceae: QK495.S87
- Stylodesmidae: QL449.65.S88
- Stylophora
  - Paleozoology: QE783.S89
- Stylopidae: QL599.3.S89
- Styracaceae: QK495.S9
- Subcellular fractionation
  - Cytology: QH585.5.S83
- Subconsciousness
  - Neurophysiology: QP411
- Subduction zones: QE511.46
- Subgiant stars: QB843.S85
- Subjectivity
  - Philosophy of science: Q175.32.S83
- Sublimation
  - Physics: QC309
- Sublittoral ecology: QH541.5.S87
- Submarine geology: QE39
- Subsidences
  - Geology: QE600+
- Substance P
  - Animal biochemistry: QP552.S9
- Substania nigra
  - Neurophysiology: QP378.3
- Substitution reactions
  - Organic chemistry: QD281.S67
- Subsurface geology: QE33.2.S9
- Subterranean waters
  - Zoology: QL118
- Subtilisins
  - Animal biochemistry: QP609.S93
- Subtraction
  - Elementary mathematics: QA115
- Succinate dehydrogenase
  - Animal biochemistry: QP603.S9
- Succineidae: QL430.5.S87
- Succinic acid
  - Animal biochemistry: QP801.S79
  - Effect on plants: QK753.S65
- Suckers (Fishes): QL638.C27
- Sucking lice
  - Zoology: QL570+
- Sucrose
  - Animal biochemistry: QP702.S8
- Suctorida: QL368.S9
- Sugar
  - Microbiology: QR129.S8
  - Plant constituent: QK898.S78
- Sugar acids
  - Animal biochemistry: QP801.S83
- Sugars
  - Animal biochemistry: QP702.S85
  - Effect on plants: QK753.S7
  - Microbial metabolism: QR92.S79
  - Organic chemistry: QD320+
- Suidae: QL737.U58
- Sulfantomonites
  - Mineralogy: QE389.3
- Sulfarsenites
  - Mineralogy: QE389.3
- Sulfatases
  - Animal biochemistry: QP609.S95
- Sulfates
  - Effect on plants: QK753.S8
  - Mineralogy: QE389.66
- Sulfides
  - Mineralogy: QE389.2
- Sulfo salts
  - Mineralogy: QE389.3
- Sulfobismuthites
  - Mineralogy: QE389.3
- Sulfonation
  - Organic chemistry: QD281.S7

## INDEX

- Sulfones
  - Aliphatic compounds: QD305.S83
  - Aromatic compounds: QD341.S6
- Sulfonic acids
  - Animal biochemistry: QP801.S85
- Sulfonium compounds
  - Aromatic compounds: QD341.S8
- Sulfotransferases
  - Animal biochemistry: QP606.S85
- Sulfoxides
  - Aromatic compounds: QD341.S6
- Sulfur
  - Chemical element: Q1 .S1
  - Effect on plants: QK753.S84
  - Effect on plants and animals: QH545.S9
  - Microbial metabolism: QR92.S8
  - Plant constituent: QK898.S8
- Sulfur compounds
  - Effect on plants and animals: QH545.S92
- Sulfur derivatives
  - Aliphatic compounds: QD305.S84
  - Aromatic compounds: QD341.S3
- Sulfur dioxide
  - Effect on plants: QK753.S85
  - Spectra: QC464.S94
- Sulfur electrodes: QD572.S95
- Sulfur organic compounds
  - Spectra: QC463.S9
- Sulfuric acid concentrator
  - Chemical laboratories: QD54.S8
- Sulidae: QL696.P48
- Sultriness
  - Meteorology: QC981.8.S9
- Sum rules
  - Quantum mechanics: QC174.17.S77
- Summer
  - Astronomy: QB637.6
- Summer temperatures: QC906
- Sun
  - Descriptive astronomy: QB520+
  - Spectroscopy: QB551
- Sun spiders: QL458.8+
- Sunbeam snakes: QL666.O694
- Sunbirds: QL696.P257
- Sunbitterns: QL696.G83
- Sundew
  - Botany: QK495.D76
- Sundials
  - Practical astronomy: QB215
- Sunfishes: QL638.C3
- Sunflower
  - Botany: QK495.C74
- Sungrebes: QL696.G845
- Sunrise
  - Time: QB216
- Sun's apparent motion: QB374
- Sunset
  - Time: QB216
- Sunshine
  - Meteorology: QC910.2+
- Sunshine recorders: QC912
- Sunspots
  - Geomagnetism: QC836
- Superantigens
  - Immunology: QR186.6.S94
- Supercolliders
  - Nuclear physics: QC787.S83
- Supercomputers: QA76.88
- Superconducting magnets
  - Physics: QC761.3
- Superconducting materials
  - Physics: QC611.94+
- Superconducting Super Collider: QC787.S83
- Superconductivity physics: QC611.9+
- Superconductors
  - Physics: QC611.94+
- Supercooled liquids
  - Fluid mechanics: QC145.48.S9
- Supercritical fluid chromatography
  - Animal biochemistry: QP519.9.S85
- Supercritical fluid extraction
  - Animal biochemistry: QP519.9.S85
- Superelectrophiles
  - Organic analysis: QD271.35.E54
- Superfluid physics: QC175.4+
- Supergiant stars: QB843.S9
- Supergravity
  - Quantum mechanics: QC174.17.S9
- Superheavy elements
  - Radioactivity: QC796.2
- Superior planets: QB639+
- Superlattices
  - Semiconductor physics: QC611.8.S86
- Superluminal sources
  - Radio astronomy: QB479.55.S88
- Supermanifolds
  - Differentiable manifolds
  - Topology: QA614.44
- Supermassive stars: QB843.S94
- Supernovae: QB843.S95
- Superoxide dismutase
  - Animal biochemistry: QP603.S94
- Superposition
  - Quantum mechanics: QC174.17.S78
- Superradiance
  - Radiation physics: QC476.S86
- Supersaturated solutions
  - Physical chemistry: QD548
- Superstitioniidae: QL458.72.S85
- Superstring theories
  - Nuclear interactions: QC794.6.S85
- Supervised learning
  - Cybernetics: Q325.75



## INDEX

- Supervolcanoes
  - Geology: QE521.5+
- Support, Software: QA76.76.S66
- Suppressor cells
  - Immunology: QR185.8.S96
- Suprachiasmatic nucleus
  - Neurophysiology: QP383.8
- Supramolecular chemistry
  - Chemistry: QD875+
- Supramolecular organometallic chemistry: QD882
- Suprarenal gland
  - Anatomy: QL868
  - Human anatomy: QM371
- Surface active agents
  - Spectra: QC463.S94
- Surface brightness
  - Galaxies: QB857.5.S87
- Surface chemistry
  - Animal biochemistry: QP517.S87
  - Physical chemistry: QD506+
- Surface films
  - Fresh water: QL142
- Surface of the moon: QB591
- Surface properties
  - Semiconductor physics: QC611.6.S9
  - Solid state physics: QC176.8.S8
  - Thin films: QC176.84.S93
- Surface tension
  - Atomic physics: QC183
- Surface waves
  - Analytic mechanics: QA939
- Surfaces
  - Atomic physics: QC173.4.S94
  - Condensed matter physics: QC173.458.S87
  - Infinitesimal geometry: QA631+
  - Mineralogy: QE364.2.S87
  - Planets: QB603.S95
  - Polymers: QD381.9.S97
- Surfaces determined by relations of curvature
  - Differential geometry: QA645
- Surfaces, General theory of: QA641+
- Surfbirds: QL696.C43
- Surfperches: QL638.E5
- Surgeonfishes: QL638.A2
- Surgery
  - Differential topology: QA613.658
- Surgical anatomy
  - Human anatomy: QM531+
- Surgical microbiology: QR46
- Surveys
  - Ecology: QH541.15.S95
- Survival
  - Heart physiology: QP114.I8
- Susceptibility
  - Magnetism: QC754.2.S8
- Suspension feeders
  - Zoology
    - Water: QL120.5
- Suthoras: QL696.P2612
- Suture zones: QE511.48
- SV40
  - Virology: QR406.2.S56
- Swallow tanagers: QL696.P28
- Swallows
  - Zoology: QL696.P247
- Swallowtail butterflies: QL561.P2
- Swamp ecology: QH541.5.S9
- Swamps
  - Biogeography: QH87.3
  - Botany: QK938.M3
  - Ecology: QH541.5.S9
  - Zoology: QL114.5
- Swans
  - Zoology: QL696.A52
- Swarm intelligence
  - Artificial intelligence: Q337.3
- Swarming
  - Animals: QL783
- Sweat
  - Physiology: QP221
- Sweat bees: QL568.H3
- Sweat glands
  - Physiology: QP188.S9
- Swedenborg, Emanuel, 1688-1772: Q143.S8
- Sweepers
  - Zoology: QL638.P34
- Sweetleaf
  - Botany: QK495.S95
- Swift (Computer program language): QA76.73.S95
- Swifts
  - Zoology: QL696.A552
- Swimming
  - Physiology: QP310.S95
- Swimming bladders
  - Anatomy: QL855
- Swine
  - Anecdotes and stories: QL795.S9
  - Laboratory manuals: QL813.P54
- Switching theory
  - Machine theory: QA268.5
- Swordfish
  - Zoology: QL638.X5
- Syarinidae: QL458.62.S9
- Sycamore
  - Botany: QK495.P72
- Syenite
  - Petrology: QE462.S95
- Sylvester equations
  - Algebra: QA196.7
- Sylviidae: QL696.P279
- Symbiogenesis
  - Biology: QH378

## INDEX

- Symbionts
    - Plant ecology: QK918
  - Symbiosis
    - Animals: QL756.8
    - Ecology: QH548+
    - Microbial ecology: QR100.8.S9
  - Symbiotic stars: QB843.S96
  - Symbolic dynamics
    - Topology: QA614.85
  - Symmetric functions
    - Theory of equations: QA212
  - Symmetrical fission
    - Nuclear fission: QC790.4.S9
  - Symmetry
    - Elementary particle physics: QC793.3.S9
    - Group theory: QA174.7.S96
    - Quantum mechanics: QC174.17.S9
  - Symmetry groups
    - Quantum chemistry: QD462.6.S94
  - Symmetry in science: Q172.5.S95
  - Sympathetic nervous system
    - Anatomy: QL939
    - Human anatomy: QM471
    - Neurophysiology: QP368.5
  - Symphobiidae: QL513.S9
  - Symphyla: QL449.8+
  - Symphytognathidae: QL458.42.S9
  - Symplectic and contact topology: QA613.659
  - Symplectic geometry: QA665
  - Symplectic manifolds
    - Atomic physics: QC174.52.S94
  - Symplocaceae: QK495.S95
  - Synancejidae: QL638.S42
  - Synaphobranchidae: QL638.S892
  - Synapses
    - Neurophysiology: QP364
  - Synbranchidae: QL638.S893
  - Synbranchiformes: QL637.9.S9
  - Synchrocyclotrons
    - Nuclear physics: QC787.S85
  - Synchronization in science: Q172.5.S96
  - Synchrotron radiation
    - Biological research: QH324.9.S95
    - Elementary particle physics: QC793.5.E62+
  - Synchrotrons: QC787.S9
  - Synchytriaceae: QK621.S9
  - Synclines
    - Geology: QE606.3.S96
  - Syngnathidae: QL638.S9
  - Synlestidae: QL520.3.S9
  - Synneuridae: QL537.S88
  - Synodontidae: QL638.S96
  - Synoptic climatology: QC981.7.S8
  - Synoptic meteorology: QC874+
  - Synovial fluid
    - Physiology: QP246.5
  - Synteliidae: QL596.S9
  - Syntexidae: QL568.S96
  - Synthesis
    - Biochemistry: QD431.25.S93
    - Heterocyclic and macrocyclic chemistry and compounds: QD400.5.S95
    - Organic chemistry
      - Carbohydrates: QD322.S95
      - Organometallic chemistry: QD411.7.S94
  - Synthetic antigens
    - Immunology: QR186.6.S95
  - Synthetic vaccines
    - Immunology: QR189.2
  - Synthetonychidae: QL458.52.S9
  - Synucleins
    - Animal biochemistry: QP552.S96
  - Synxenidae: QL449.65.S95
  - Syphilis
    - Microbiology: QR201.S9
  - Syringobiidae: QL458.2.S89
  - Syringophilidae: QL458.2.S9
  - Syrphidae: QL537.S9
  - System analysis
    - Analytical methods used in the solution of physical problems: QA402+
  - System design
    - Computer science: QA76.9.S88
  - System failures
    - Computer science: QA76.9.F34
  - System theory
    - Science: Q295
  - Systematics
    - Botany: QK95+
    - Zoology: QL351+
  - Systemic system
    - Physiology: QP106+, QP106
  - Systems and standards of time
    - Astronomy: QB223
  - Systems migration
    - Computer science: QA76.9.S9
  - Systems programming
    - Digital computers: QA76.66
  - Systems software: QA76.76.S95
- T
- T cells
    - Immunology: QR185.8.T2
  - T Tauri stars: QB843.T12
  - T4 bacteriophage: QR342.2.T14
  - Tabanidae: QL537.T25
  - Tables, Mathematical: QA47+
  - Tables of integrals
    - Calculus: QA310
  - Tablet computers: QA76.893
  - Taccaceae: QK495.T3
  - Tachardiidae: QL527.K44
  - Tachinidae: QL537.T28

## INDEX

- Tachiniscidae: QL537.T3
- Tachyglossidae: QL737.M73
- Tachykinins
  - Animal biochemistry: QP552.T33
- Tachyons
  - Elementary particle physics: QC793.5.T32+
- Tactite: QE475.T33
- Tadpole shrimps: QL444.B86
- Taeniodontia
  - Paleozoology: QE882.T34
- Taeniopterygidae: QL530.3.T3
- Tagging
  - Reptiles and amphibians: QL645.6+
- Tahitocoridae: QL523.T3
- Taiga ecology: QH541.5.T3
- Taigas
  - Botany: QK938.T34
  - Ecology: QH541.5.T3
- Tail
  - Anatomy: QL950.6
- Tailed frogs: QL668.E217
- Talc
  - Mineralogy: QE391.T2
- Tallow-wood
  - Botany: QK495.O35
- Talpidae: QL737.S76
- Tamaricaceae: QK495.T35
- Tamarins: QL737.P925
- Tamarisk
  - Botany: QK495.T35
- Tanagers: QL696.P282
- Tanaidacea: QL444.M38
- Tancrediidae
  - Paleozoology: QE812.T3
- Tannins
  - Organic chemistry: QD327
  - Plant constituent: QK898.T2
- Tantalates
  - Mineralogy: QE389.63
- Tantalum
  - Chemical element: Q1 .T2
- Tanyderidae: QL537.T35
- Tanypezidae: QL537.T357
- Tapaculos: QL696.P273
- Taphonomy: QE721.2.F6
- Taphrinaceae: QK623.T3
- Tapiridae: QL737.U64
- Tapirs
  - Zoology: QL737.U64
- Tarantulas: QL458.42.T5
- Tarantulidae: QL458.32.T3
- Tardigrada: QL447.5
  - Paleozoology: QE823.T2
- Targets
  - Nuclear physics: QC787.T35
- Targioniaceae: QK555.T3
- Tarpon
  - Zoology: QL638.M33
- Tarsiers: QL737.P965
- Tarsiidae: QL737.P965
- Tarsipedidae: QL737.M3875
- Tarsonemidae: QL458.2.T3
- Taste
  - Physiology: QP456
- Taurine
  - Animal biochemistry: QP801.T3
- Tautomerism
  - Physical chemistry: QD471
- Taxaceae: QK494.5.T25
- Taxales
  - Paleobotany: QE977.5
- Taxes (Biology): QH514
- Taxidermy: QL63
- Taxodiaceae: QK494.5.T3
- Taxonomy
  - Botany: QK95+
  - Zoology: QL351+
- Tayassuidae: QL737.U59
- Tcl (Computer program language): QA76.73.T44
- Tea
  - Botany: QK495.T4
- Teacher training
  - Biology: QH315.25
- Teaching teams
  - Mathematics teaching: QA20.T43
- Team teaching
  - Mathematics: QA20.T43
- Tear glands
  - Physiology: QP188.T4
- Tears
  - Physiology: QP231
- Teasel
  - Botany: QK495.D56
- Technetium
  - Chemical element: Q1 .T35
  - Effect on plants and animals: QH545.T37
- Technical analysis
  - Analytical chemistry: QD130+
- Technical support
  - Computer science: QA76.9.T43
- Technique
  - Cytology: QH585+
- Tectonite: QE475.T43
- Teeth
  - Anatomy: QL858
  - Human anatomy: QM311
  - Physiology: QP88.6
- Teeth, Fossil: QE846
- Teichmüller spaces: QA337
- Teiidae: QL666.L285
- Tektites
  - Mineralogy: QE399

## INDEX

- Telechelic polymers
  - Organic chemistry: QD382.T44
- Telegeusidae: QL596.T16
- Telegraph codes
  - Astronomy: QB139
- Telegraphic codes
  - Astronomy: QB139
- Teleodesmacea
  - Paleozoology: QE812.T34
- Teleology
  - Nature conservation: QH77.3.T45
- Teleostei
  - Paleozoology: QE852.O45
- Teleportation
  - Quantum mechanics: QC174.17.Q38
- Teleprocessing monitors
  - Computer software: QA76.76.T45
- Telescopes
  - Astronomy: QB88+
- TELETEL (Videotex system): QA76.57.T44
- Television
  - Mathematics teaching aid: QA19.T4
- Television in astronomy: QB125
- Television in science teaching: Q196
- Teliomycetes: QK626.3+
- Tellinidae: QL430.7.T3
  - Paleozoology: QE812.T37
- Tellurates
  - Mineralogy: QE389.66
- Tellurides
  - Mineralogy: QE389.2
- Tellurium
  - Chemical element: Q1 .T4
  - Semiconductor physics: QC611.8.T44
- Tellurium chlorides
  - Spectra: QC464.T44
- Tellurium ores
  - Mineralogy: QE390.2.T42
- Tellurometer: QB328.T4
- Telmidae: QL458.42.T44
- Telomerase
  - Animal biochemistry: QP606.T44
- Telomere
  - Cytology: QH600.3
- Telomerization
  - Organic chemistry: QD281.P6
- Teloschistaceae: QK585.T44
- Tempel 1 comet: QB723.T3
- Temperate climate: QC993.75+
- Temperate forests
  - Ecology: QH541.5.T45
- Temperate regions
  - Biogeography: QH84.3
- Temperate zones: QC993.75+
- Temperature
  - Bacterial physiology: QR97.T4
  - Effect on cells: QH653
- Temperature
  - Effect on plants: QK755+
  - Effect on plants and animals: QH545.T4
  - Moon: QB588
  - Physiological effect: QP82.2.T4
  - Physiology: QP451.6
  - Sun: QB531
- Temperature-dependent sex determination
  - Physiology: QP278.53
- Temperature effects
  - Superconductors: QC611.97.T46
  - Virology: QR478.T4
- Temperature measurements
  - Physics: QC270+
- Temperature measuring instruments: QC270+
- Temperatures, Summer: QC906
- Temperatures, Winter: QC905
- Templates, Biochemical
  - Animal biochemistry: QP517.B48
- Temporal automata
  - Algebra: QA267.5.T45
- Temporal lobe
  - Neurophysiology: QP382.T4
- Temporary stars: QB841
- Tenascin
  - Animal biochemistry: QP552.T37
- Tendipedidae: QL537.C456
- Tendons
  - Human anatomy: QM170
- Tendrils
  - Physiology: QK773
  - Shoots: QK650
- Tenebrionidae: QL596.T2
- Tengellidae: QL458.42.T45
- Tenrecidae: QL737.A357
- Tenrecomorpha: QL737.A35+
- Tenrecs: QL737.A357
- Tensor algebra: QA200+
- Tensor analysis: QA433
- Tensor products
  - Algebra: QA199.5
- Tent-caterpillar moths: QL561.L3
- Tentaculata: QL380.5.T4+
- Tentaculitida
  - Paleozoology: QE899.2.T45
- Tenthredinidae: QL568.T3
- Tenuipalpidae: QL458.2.T36
- Tephritidae: QL537.T42
- Tephrochronology
  - Volcanoes: QE527.56
- Tephroite
  - Mineralogy: QE391.T3
- Teponemataceae: QR82.T7
- Terahertz spectroscopy: QC454.T47
- Teraponidae: QL638.T27
- Teratembidae: QL539.3.T4

## INDEX

- Teratology
  - Embryology: QL991
  - Human embryology: QM690+
  - Plant anatomy: QK664
- Teratornis
  - Paleozoology: QE872.V9
- Terbium
  - Chemical element: Q1 .T3
- Terebrataliidae: QL395.8.T39
- Terebratuladae
  - Paleozoology: QE797.T29
- Terebratulida
  - Paleozoology: QE797.T29
- Terebratulidae: QL395.8.T4
- Terebridae: QL430.5.T25
- Teredinidae: QL430.7.T4
  - Paleozoology: QE812.T4
- Teratophylidae: QL523.T4
- Terminal restriction fragment length polymorphism analysis: QP624.5.T47
- Termination
  - Computer software: QA76.76.T47
- Terminology
  - Analytical chemistry: QD71.8
  - Biology: QH304.5
  - Natural history: QH83.5
- Termitaphididae: QL523.T43
- Termites
  - Paleozoology: QE832.I8
  - Zoology: QL529+
- Termitidae: QL529.3.T4
- Termitoxeniidae: QL537.T447
- Termopsidae: QL529.3.T5
- Ternary superconductors: QC611.98.T37
- Ternary system: QA141.8.T45
- Terns
  - Zoology: QL696.C46
- Terpenes
  - Animal biochemistry: QP752.T47
  - Biochemistry: QD416+
  - Plant constituent: QK898.T4
  - Spectra: QC463.T4
- Terrariums: QH68
- Terrestrial heat flow
  - Geophysics: QC809.T38
- Terrestrial radiation: QC809.T4
- Terrestrial-solar relations: QB539.T4
- Territoriality
  - Animals: QL756.2
- Tersinidae: QL696.P28
- Tertiary
  - Paleobotany: QE926+
  - Paleontology: QE736+
  - Stratigraphy: QE691+
- Tertiary-Cretaceous boundary
  - Stratigraphy: QE689
- Tessellation
  - Algebra: QA166.8
- Test papers
  - Analytical chemistry: QD77
  - Organic chemistry: QD271.3+
- Testacea
  - Paleozoology: QE774.T5
- Testacellidae: QL430.5.T3
- Testacida: QL368.T4
- Testes
  - Physiology: QP255
- Testing of hypotheses
  - Mathematical statistics: QA277+
- Testing of software: QA76.76.T48
- Testosterone
  - Animal biochemistry: QP572.T4
- Testudinata: QL666.C5+
  - Paleozoology: QE862.C5
- Testudinidae: QL666.C584
- Tetanus
  - Microbiology: QR201.T3
- Tethinidae: QL537.T448
- Tethyidae: QL430.5.T35
- Tetrablemmidae: QL458.42.T46
- Tetracampidae: QL568.T34
- Tetracentraceae: QK495.T355
- Tetrachlorodibenzodioxin
  - Effect on plants and animals: QH545.T44
- Tetracycline
  - Organic chemistry: QD377.T45
- Tetradymite
  - Mineralogy: QE391.T4
- Tetragnathidae: QL458.42.T48
- Tetragonal systems (Crystallography): QD912
- Tetragonuridae: QL638.T3
- Tetranychidae: QL458.2.T4
- Tetraodontidae: QL638.T32
- Tetraodontiformes: QL637.9.T4
  - Paleozoology: QE852.T48
- Tetras: QL638.C5
- Tetratomidae: QL596.T27
- Tetrigidae
  - Zoology: QL508.T38
- Tetrodotoxin
  - Animal biochemistry: QP632.T46
- Tettigellidae: QL527.C49
- Tettigometridae: QL527.T43
- Tettigoniidae
  - Zoology: QL508.T4
- Text editors
  - Computer software: QA76.76.T49
- Text processing
  - Computer science: QA76.9.T48
- Textbooks
  - Algebra: QA152+
- Textbooks, Arithmetic: QA101+
- Textbooks, Mathematics: QA36.5+

## INDEX

- Textile industry
  - Effect on plants and animals: QH545.T45
- Th cells: QR185.8.T24
- Thaididae
  - Paleozoology: QE809.T5
- Thalamus
  - Anatomy: QL938.T45
  - Neurophysiology: QP383.5
- Thalassiosiraceae
  - Botany: QK569.T47
- Thalattosauria
  - Paleozoology: QE862.T4
- Thallium
  - Chemical element: Q1 .T7
  - Effect on plants: QK753.T5
- Thallium chloride
  - Spectra: QC464.T54
- Thallus
  - Plant anatomy: QK651
- Thamnophilidae: QL696.P2816
- Thaumaleidae: QL537.T45
- Thaumastoscopidae: QL527.T5
- Thaumastotheriidae: QL523.T48
- Thaumatin
  - Animal biochemistry: QP552.T43
- Thaumatoxenidae: QL537.T458
- Theaceae: QK495.T4
- Thecamoebae
  - Paleozoology: QE774.T5
- Thecidellinidae
  - Paleozoology: QE797.T5
- Thecodontia
  - Paleozoology: QE862.T47
- Thelenellaceae: QK585.T48
- Theleporaceae: QK629.T4
- Theligonaceae: QK495.T45
- Thelotre mataceae: QK585.T5
- Thelyphonida: QL458.85+
- Thelyphonidae: QL458.87.T4
- Thelypteridaceae: QK524.T54
- Theophrastaceae: QK495.T457
- Theoretical astronomy: QB349+
- Theoretical chemistry: QD450+
- Theory of distributions
  - Functional analysis: QA324
  - Mathematical physics: QC20.7.T45
- Theory of double star systems
  - Celestial mechanics: QB421
- Theory of errors
  - Mathematics: QA275
- Theory of functions
  - Analysis: QA331+
- Theory of solution
  - Physical chemistry: QD540+
- Theory of tides
  - Celestial mechanics: QB414+
- Theory of vibrations
  - Analytic mechanics: QA865+
- Theory of wave motion: QA927
- Theraphosidae: QL458.42.T5
- Theraponidae: QL638.T27
- Therapsida
  - Paleozoology: QE862.T5
- Therevidae: QL537.T47
- Theria
  - Paleozoology: QE881
- Thericleidae: QL508.T45
- Theridiidae: QL458.42.T54
- Theridiosomatidae: QL458.42.T55
- Thermal analysis
  - Analytical chemistry: QD79.T38
  - Geology: QE33.2.T45
  - Organic chemistry: QD272.T45
  - Quantitative analysis: QD117.T4
- Thermal analysis, Differential
  - Determinative mineralogy: QE369.D5
- Thermal diffusivity
  - Physics: QC321.7.T55
- Thermal electrons
  - Elementary particle physics: QC793.5.T37+
- Thermal neutrons
  - Elementary particle physics: QC793.5.T42+
- Thermal pollution
  - Effect on plants and animals: QH545.T48
- Thermal properties
  - Condensed matter physics: QC173.458.T48
  - Crystals: QD937
  - Gases: QC165.5
  - Liquids: QC145.4.T5
  - Matter and antimatter: QC192
  - Organometallic chemistry: QD411.7.T47
  - Petrology: QE431.6.T45
  - Polymers: QD381.9.T54
  - Radioactive substances: QC795.8.T45
  - Semiconductor physics: QC611.6.T4
  - Solid state physics: QC176.8.T4
  - Superconductors: QC611.97.T54
- Thermal radiation: QC331+
- Thermionic emission
  - Physics: QC701.7+
- Thermoascaceae: QK623.T54
- Thermobiology
  - Biology: QH516
- Thermochemistry: QD510+
- Thermocouples (Physics): QC274
- Thermodynamic equilibrium: QC318.T47
- Thermodynamic potentials: QC318.T5
- Thermodynamics
  - Animal biochemistry: QP517.T48
  - Atomic physics: QC173.75.T5
  - Cloud physics: QC921.6.T4
  - Geochemistry: QE515.5.T46
  - Meteorology: QC880.4.T5

## INDEX

- Thermodynamics
  - Mineralogy: QE364.2.T45
  - Physical chemistry: QD504
  - Physics: QC310.15+
  - Plasma physics: QC718.5.T5
- Thermodynamics, Relativistic: QC311.7
- Thermodynamics, Statistical: QC311.5
- Thermoelasticity
  - Analytic mechanics: QA933
- Thermoelectricity
  - Physics: QC621+
- Thermogravimetry
  - Analytical chemistry: QD79.T4
- Thermoluminescence
  - Radiation physics: QC479
- Thermomagnetism
  - Physics: QC761.8
- Thermometers
  - Physics: QC270+
- Thermometry
  - Physics: QC270+
- Thermophilic bacteria: QR84.8
- Thermopiles: QC274
- Thermoreceptors: QP451.6
- Thermoregulation
  - Physiology: QP135
- Thermoresponsive polymers
  - Organic chemistry: QD382.T46
- Thermosbaenacea: QL444.M384
- Thermosphere
  - Meteorology: QC881.2.T4
- Thermostats
  - Chemical laboratories: QD54.T4
- Theta functions: QA345
- Thiamin pyrophosphate-dependent enzymes
  - Animal biochemistry: QP601.8
- Thiamine
  - Animal biochemistry: QP772.T5
  - Effect on plants: QK753.T53
- Thiaridae: QL430.5.T45
- Thick-knees: QL696.C428
- Thickness measurement: QC102.5
- Thigmotrichida: QL368.T5
- Thin film superconductors: QC611.98.T55
- Thin films
  - Solid state physics: QC176.82+
- Thin films in optical instruments: QC378
- Thin layer chromatography
  - Analytical chemistry: QD79.C8
  - Animal biochemistry: QP519.9.T55
  - Organic chemistry: QD272.C45
  - Quantitative analysis: QD117.C52
- Thin sections
  - Petrology: QE434
- Thinocoridae: QL696.C49
- Thio compounds
  - Aliphatic compounds: QD305.T45
- Thioctic acid
  - Animal biochemistry: QP772.T54
- Thiocyanates
  - Animal biochemistry: QP801.T4
- Thiols
  - Animal biochemistry: QP801.M37
  - Radiation chemistry: QD651.M38
- Thioredoxin
  - Animal biochemistry: QP552.T45
- Thioureas
  - Effect on plants: QK753.T55
- Thirst
  - Physiology: QP137+
- Thixotropy: QC189.8
- Thomas-Fermi theory
  - Atomic physics: QC173.4.T48
- Thomisidae: QL458.42.T56
- Thomson effect: QC621+
- Thoracica: QL444.C58
- Thorax
  - Regional anatomy: QM541
- Thorictidae: QL596.T35
- Thorium
  - Chemical element: Q1 .T5
  - Magnetic materials: QC766.T56
- Thorium ores
  - Mineralogy: QE390.2.T45
- Thorns
  - Shoots: QK650
- Thraciidae: QL430.7.T47
- Thrashers: QL696.P25
- Thraupidae: QL696.P282
- Thraustochytriaceae: QK621.T45
- Threadfins: QL638.P75
- Threads
  - Computer software: QA76.76.T55
- Three body problem
  - Theoretical astronomy: QB362.T5
- Three-dimensional imaging
  - Biological research: QH324.9.T45
- Three-toed tree sloths: QL737.E22
- Threonine
  - Animal biochemistry: QP562.T5
- Thresher sharks: QL638.95.A4
- Threskiornithidae: QL696.C585
  - Paleozoology: QE872.T5
- Thripidae: QL598.3.T4
- Thrips
  - Paleozoology: QE832.T5
  - Zoology: QL598+
- Thrombin: QP93.5+
- Thrombocytes
  - Immunology: QR185.8.P58
- Thrombomodulin
  - Blood: QP93.7.T45
- Thromboplastin: QP93.5+

## INDEX

- Thrombospondins
  - Animal biochemistry: QP552.T47
- Throscidae: QL596.T4
- Thrushes: QL696.P288
- Thryonomyidae: QL737.R686
- Thuathe meteorite: QB756.T58
- Thulium
  - Chemical element: Q1 .T8
- Thunderstorms: QC968+
- Thurniaceae: QK495.T46
- Thy-1 antigen
  - Immunology: QR186.6.T48
- Thyasidae: QL458.2.T5
- Thyatriridae: QL561.T46
- Thylacine: QL737.M336
  - Anecdotes and stories: QL795.T47
- Thylacinidae: QL737.M336
- Thylacomyidae (Bilibies): QL737.M478
- Thymelaeaceae: QK495.T48
- Thymic hormones
  - Animal biochemistry: QP572.T46
- Thymus
  - Immunology: QR185.8.T48
- Thymus gland
  - Anatomy: QL868
  - Physiology: QP188.T5
- Thynnidae: QL568.T4
- Thyreophoridae: QL537.T49
- Thyrididae: QL561.T48
- Thyroglobulin
  - Animal biochemistry: QP552.T5
- Thyroid gland
  - Anatomy: QL868
  - Human anatomy: QM371
  - Physiology: QP188.T54
- Thyroid hormones
  - Animal biochemistry: QP572.T5
- Thyronines
  - Animal biochemistry
  - Hormones: QP572.T5
- Thyroprotein
  - Animal biochemistry: QP552.T55
- Thyropteridae: QL737.C59
- Thyrotropin
  - Animal biochemistry: QP572.T55
- Thyrotropin releasing factor
  - Animal biochemistry: QP572.T56
- Thyroxine
  - Animal biochemistry: QP563.T5
  - Hormones: QP572.T5
- Thysanoptera
  - Paleozoology: QE832.T5
  - Zoology: QL598+
- Thysanura: QL503.8.A1+
- Tidal flat ecology: QH541.5.T53
- Tidal flats
  - Ecology: QH541.5.T53
- Tidal pool ecology: QH541.5.S35
- Tidal pools
  - Ecology: QH541.5.S35
- Tide marshes
  - Botany: QK938.S27
- Tide theory
  - Celestial mechanics: QB414+
- Tidmarsh ecology: QH541.5.S24
- Tidmarshes
  - Ecology: QH541.5.S24
  - Zoology: QL114
- Tides, Theory of
  - Celestial mechanics: QB414+
- Tiger beetles: QL596.C56
- Tiger moths: QL561.A8
- Tigers
  - Anecdotes and stories: QL795.T5
- Tilefishes: QL638.B83
- Tiliaceae: QK495.T5
- Tiling
  - Algebra: QA166.8
- Tilletiaceae: QK628.T5
- Tillite: QE471.15.T5
- Tillodontia
  - Paleozoology: QE882.C84
- Timaliidae: QL696.P285
- Timber beetles: QL596.L94
- Time
  - Philosophy of science: Q175.32.T56
  - Practical astronomy: QB209+
- Time dilatation (Relativity physics): QC173.59.T5
- Time, Equation of
  - Astronomy: QB217
- Time, Finding the
  - Astronomy: QB213
- Time measuring instruments
  - Astronomy: QB214
- Time perception
  - Physiology: QP445
- Time-resolved spectroscopy
  - Animal biochemistry: QP519.9.T59
- Time reversal (Relativity physics): QC173.59.T53
- Time series analysis
  - Mathematical statistics: QA280
- Time service
  - Astronomy: QB210.A1+
- Time-sharing data processing: QA76.53
- Time signals
  - Astronomy: QB221
- Time standards
  - Astronomy: QB223
- Time systems
  - Astronomy: QB223
- Timmiaceae: QK539.T58
- Tin
  - Chemical element: Q1 .S7



## INDEX

- Tin compounds
  - Effect on plants and animals: QH545.T55
- Tin ores
  - Mineralogy: QE390.2.T48
- Tinamidae: QL696.T4
- Tinamiformes: QL696.T37+
  - Paleozoology: QE872.T56
- Tinamous: QL696.T4
- Tindariidae: QL430.7.T55
- Tineidae: QL561.T55
- Tineodidae: QL561.T56
- Tingidae: QL523.T5
- Tingupidae: QL449.65.T56
- Tintinnida: QL368.T55
  - Paleozoology: QE774.T55
- Tiphiidae: QL568.T5
- Tipulidae: QL537.T6
- Tischeriidae: QL561.T58
- Tissue remodeling
  - Biology: QH491+
- Tissue-specific antigens
  - Immunology: QR186.6.T57
- Tissues
  - Physiology: QP88+
- Titanates
  - Dielectrics: QC585.75.T58
  - Mineralogy: QE389.62+
- Titanium
  - Chemical element: Q1 .T6
- Titanium group
  - Inorganic chemistry: QD172.T52
- Titanium ores
  - Mineralogy: QE390.2.T5
- Titus: QL737.P959
- Titmice: QL696.P2615
- Toadfishes: QL638.B3
- Toads
  - Zoology: QL668.E2+
- Tobacco
  - Animal biochemistry: QP801.T57
- Tobacco mosaic virus
  - Experimental genetics: QH470.T6
- Tocopherol
  - Animal biochemistry: QP772.T6
- Todaridae: QL638.T55
- Todidae: QL696.C78
- Todies: QL696.C78
- Togaviruses
  - Virology: QR415.5
- Tolerance
  - Immunology: QR188.4
- Tolerance regions
  - Mathematical statistics: QA276.74
- Tolylenediamine
  - Animal biochemistry: QP801.T6
- Tomaspidae: QL527.T6
- Tomatoes
  - Microbiology: QR129.T65
- Tomoceridae: QL503.T6
- Tomography, Optical
  - Physics: QC449.5
- Tone perception
  - Neurophysiology: QP465
- Tongue
  - Anatomy: QL946
  - Human anatomy: QM503
- Tongue worms: QL447.3
- Tonguefishes: QL638.C93
- Tonnidae: QL430.5.T63
- Tonsils
  - Anatomy: QL861
  - Human anatomy: QM331
- Tonsteins: QE471.15.T64
- Toothbrush tree
  - Botany: QK495.S165
- Toothed whales: QL737.C43+
- Top
  - Rigid dynamics: QA862.T7
- Topaz
  - Mineralogy: QE391.T6
- Topoclimatology: QC981.7.T64
- Topographical anatomy
  - Human anatomy: QM531+
  - Zoology: QL950.1+
- Topological algebras: QA326
- Topological defects
  - Cosmology: QB991.T67
- Topological dynamics: QA611.5
- Topological graph theory
  - Algebra: QA166.195
- Topological groups
  - Analysis: QA387
- Topological linear spaces
  - Functional analysis: QA322
- Topological manifolds: QA613.2
- Topological transformation groups: QA613.7
- Topology: QA611+
  - Mathematical physics: QC20.7.T65
  - Physical chemistry: QD455.3.T65
- Tornadoes: QC955+
- Tornidae: QL430.5.T65
- Toroidal harmonics: QA411
- Torpedinidae: QL638.875.T6
- Torpediniformes: QL638.87+
- Torpedo electric rays
  - Fishes: QL638.875.T6
- Torsion
  - Analytic mechanics: QA934
  - Plant movement: QK773
- Tortoises
  - Zoology: QL666.C584
- Tortricidae: QL561.T8

## INDEX

- Torulosis
  - Microbiology: QR201.T5
- Torymidae: QL568.T6
- Toucans
  - Zoology: QL696.P57
- Touch
  - Physiology: QP451
- Touch-me-not
  - Botany: QK495.B25
- Touracos
  - Zoology: QL696.C85
- Tourmaline
  - Mineralogy: QE391.T7
- Tovariaceae: QK495.T6
- Toxicity testing
  - Ecology: QH541.15.T68
- Toxicology
  - Aquatic biology: QH90.8.T68
- Toxins
  - Animal biochemistry: QP631+
  - Immunology: QR186.6.T6
- Toxodontia
  - Paleozoology: QE882.U8
- Toxoids
  - Immunology: QR186.6.T65
- Toxopidae: QL458.42.T6
- Toxoplasmodia: QL368.T6
- Toxoplasmosis
  - Microbiology: QR201.T53
- Toxotidae: QL638.T6
- Trace elements
  - Analytical chemistry: QD139.T7
  - Animal biochemistry: QP534
  - Blood constituents: QP99.3.T72
  - Effect on plants: QK753.T7
  - Effect on plants and animals: QH545.T7
  - Geochemistry: QE516.T85
  - Spectra: QC462.T85
- Trace fossils: QE720.5
- Tracer techniques
  - Immunology: QR183.2
  - Nuclear chemistry: QD607
- Tracers
  - Biological research: QH324.3+
  - Radioactive substances: QC798.T7
- Trachea
  - Anatomy: QL854
  - Human anatomy: QM257
  - Physiology: QP125
- Tracheae
  - Arthropoda: QL847
- Trachichthyidae: QL638.T68
- Trachinidae: QL638.T685
- Trachipteridae: QL638.T69
- Trachoma
  - Microbiology: QR201.T54
- Trachyte: QE462.T73
- Trachytidae: QL458.2.T7
- Tracks
  - Elementary particle physics: QC793.3.T67
- Tracks, Animal: QL768
- Tracks, Dinosaur: QE861.6.T72
- Trade winds
  - Meteorology: QC939.T7
- Tradescantia
  - Experimental genetics: QH470.T68
- Tragulidae: QL737.U595
- Trajectories
  - Quantum mechanics: QC174.17.Q385
- Trans fatty acids
  - Animal biochemistry: QP752.T63
- Trans-Neptunian objects: QB694+
- Transaction systems
  - Digital computers: QA76.545
- Transactional interpretation
  - Quantum mechanics: QC174.17.T67
- Transaminases: QP606.A43
- Transborder data flow
  - Computer science: QA76.9.T7
- Transcendental curves
  - Infinitesimal geometry: QA628
- Transcendental functions
  - Analysis: QA353.T7
  - Curves and surfaces: QA605
- Transcendental numbers
  - Algebra: QA247.5
- Transcendental surfaces
  - Infinitesimal geometry: QA638
- Transcription
  - Genetic regulation: QH450.2
- Transcription factors
  - Animal biochemistry: QP552.T68
- Transduction
  - Genetics: QH448.3
- Transfer factor
  - Immunology: QR185.8.T67
- Transfer learning
  - Cybernetics: Q325.787
- Transfer RNA
  - Animal biochemistry: QP623.5.T73
- Transferases
  - Animal biochemistry: QP605+
- Transferrin
  - Animal biochemistry: QP552.T7
- Transfinite numbers
  - Algebra: QA248+
- Transformation
  - Genetics: QH448.4
  - Virology: QR472
- Transformations
  - Quantum mechanics: QC174.17.T7
- Transformations for algebraic configurations: QA601+
- Transforming growth factors
  - Animal biochemistry: QP552.T72

## INDEX

- Transgenic animals
  - Biology: QH442.6
- Transgenic organisms
  - Biology: QH442.6
- Transglutaminases
  - Animal biochemistry: QP606.T73
- Transit circle
  - Astronomical instruments: QB101
- Transit instruments: QB105
- Transit of Mercury: QB515
- Transit of Venus: QB509+
- Transit out of meridian
  - Astronomical instruments: QB103
- Transition metal compounds
  - Photochemistry: QD730.T73
- Transition metal oxides: QC611.98.T73
- Transition metals
  - Inorganic chemistry: QD172.T6
  - Organometallic chemistry: QD411.8.T73
  - Spectra: QC462.T86
- Transition temperature
  - Superconductors: QC611.97.T46
- Transitions
  - Nuclear interactions: QC454.N8
- Transits, Prediction of: QB175+
- Transketolase
  - Animal biochemistry: QP606.T75
- Translating
  - Ecology: QH541.187
- Translating services
  - Chemistry: QD9.2
  - Geology: QE33.2.T7
  - Science: Q124
- Translational motion: QC762.6.T73
- Translators
  - Computer software: QA76.76.T83
- Translocation
  - Chromosomal mutation: QH462.T7
  - Phytochemistry: QK871
- Transmission
  - Electric waves: QC665.T7
  - Radio waves: QC676.7.T7
  - Sound: QC233
- Transmission electron microscopes: QH212.T7
- Transmission of radiation
  - Geometrical optics: QC389
- Transparent ceramics in optical instruments: QC378.5
- Transpiration
  - Plant-water relationship: QK873
- Transplantation immunology: QR188.8
- Transplantation of organs, tissues, etc.
  - Physiology: QP89
- Transplutonium elements
  - Inorganic chemistry: QD172.T65
- Transport
  - Plasma physics: QC718.5.T7
- Transport phenomena
  - Meteorology: QC880.4.T7
- Transport theory
  - Elementary particle physics: QC793.3.T7
  - Mathematical physics: QC20.7.T73
  - Statistical physics: QC175.2+
- Transportation problems
  - Mathematical optimization: QA402.6
- Transuranium elements
  - Effect on plants and animals: QH545.T74
  - Inorganic chemistry: QD172.T7
- Trapaceae
  - Botany: QK495.T66
- Trapped ions
  - Electric discharge: QC702.7.T73
- Traveltime inversion, Seismic: QE539.2.S43
- Traverse surveying
  - Geodetic surveying: QB325
- Travertine: QE471.15.T73
- Trawls and trawling
  - Effect on plants and animals: QH545.T743
- Tree frogs
  - Zoology: QL668.E24
- Tree of heaven
  - Botany: QK495.S59
- Tree shrews: QL737.S254
- Tree trunks: QK646.7
- Treehoppers
  - Zoology: QL527.M45
- Trees
  - Botany: QK474.8+
  - Graph theory: QA166.2
- Tremandraceae: QK495.T7
- Tremellaceae: QK629.T67
- Tremellales: QK629.T7
- Trentepohliaceae: QK569.T73
- Trepostomata
  - Paleozoology: QE799.T7
- Triaenonychidae: QL458.52.T75
- Triakidae: QL638.95.T75
- Triangle
  - Analytic geometry: QA557
  - Plane geometry: QA482
- Triangularization
  - Matrices
    - Algebra: QA197
- Triassic
  - Paleobotany: QE922
  - Paleontology: QE732
  - Stratigraphy: QE676+
- Tributylin
  - Animal biochemistry: QP752.T7
- Tricanthidae: QL638.T695
- Trichechidae: QL737.S63
- Trichiidae: QL596.T7
- Trichiuridae: QL638.T7
- Trichoceridae: QL537.T7

## INDEX

- Trichocomaceae: QK623.T75  
 Trichodectidae: QL540.3.T7  
 Trichodontidae: QL638.T73  
 Trichogrammatidae: QL568.T7  
 Tricholomataceae: QK629.T73  
 Trichomas  
   Shoots: QK650  
 Trichomatidae: QL513.T7  
 Trichomonadida: QL368.T7  
 Trichomoniasis  
   Microbiology: QR201.T55  
 Trichomycteridae: QL638.T76  
 Trichonotidae: QL638.T78  
 Trichophlopteridae: QL540.3.T72  
 Trichopolydesmidae: QL449.65.T75  
 Trichoptera  
   Paleozoology: QE832.T8  
   Zoology: QL516+  
 Trichopterygidae: QL596.P83  
 Trichostomatida: QL368.T76  
 Trichothecenes  
   Animal biochemistry: QP632.T75  
 Triclopyr  
   Effect on plants and animals: QH545.T75  
 Tricoliidae: QL430.5.T67  
 Trictenotomidae: QL596.T75  
 Tridacnidae: QL430.7.T7  
 Tridactylidae  
   Zoology: QL508.T73  
 Tridenchthoniidae: QL458.62.T7  
 Triggerfishes: QL638.B15  
 Triglidae: QL638.T8  
 Triglycerides  
   Animal biochemistry: QP752.T74  
 Trigonalidae: QL568.T74  
 Trioniaceae: QK495.T73  
 Trionidiidae: QL508.T74  
 Trioniidae  
   Paleozoology: QE812.T74  
 Trionioida  
   Paleozoology: QE812.T74  
 Trigonometric sums: QA246.8.T75  
 Trigonometric tables: QA55+  
 Trigonometry: QA531+  
 Trigonometry and geometry (combined): QA529  
 Triiodothyronine  
   Animal biochemistry  
   Hormones: QP572.T5  
 Trilliaceae: QK495.T735  
 Trillium  
   Experimental genetics: QH470.T7  
 Trilobitomorpha  
   Paleozoology: QE821+  
 Trimeniaceae: QK495.T74  
 Trimenoponidae: QL540.3.T74  
 Trimerellidae  
   Paleozoology: QE797.T8  
 Triodontidae: QL638.T85  
 Trionychidae: QL666.C587  
 Triple-helix-forming oligonucleotides  
   Animal biochemistry: QP625.T75  
 Tripletails: QL638.L6  
 Tripterygiidae: QL638.T87  
 Triptopause  
   Meteorology: QC881.2.T7  
 Triptosphere  
   Meteorology: QC881.2.T7  
 Trisection of the angle  
   Elementary geometry: QA468  
 Tritium  
   Effect on plants: QK753.T75  
   Effect on plants and animals: QH545.T76  
 Tritoniidae: QL430.5.T7  
 Triuridaceae: QK495.T745  
 Trixoscelidae: QL537.T75  
 Trochidae: QL430.5.T75  
 Trochilidae: QL696.A558  
 Trochodendraceae: QK495.T75  
 Trogidae: QL596.T78  
 Troglodytidae: QL696.P287  
 Troglotaosycidae: QL458.72.T75  
 Trogonidae: QL696.T7  
 Trogoniformes: QL696.T67+  
 Trogons: QL696.T7  
 Trogositidae: QL596.T8  
 Trogulidae: QL458.52.T76  
 Trombiculidae: QL458.2.T75  
 Trombidiidae: QL458.2.T76  
 Trona  
   Mineralogy: QE391.T8  
 Trondhjemite: QE462.T74  
 Tropaeolaceae: QK495.T77  
 Trophoblast  
   Immunology: QR185.8.T7  
 Tropical climatology: QC993.5  
 Tropical cyclones: QC945  
 Tropical dry forests  
   Ecology: QH541.5.T66  
 Tropical ecology: QH541.5.T7  
 Tropical geometry: QA582  
 Tropical meteorology: QC993.5  
 Tropical plants: QK936  
 Tropicbirds  
   Zoology: QL696.P474  
 Tropics  
   Biogeography: QH84.5  
   Ecology: QH541.5.T7  
 Tropidophiidae: QL666.O68  
 Tropiduchidae: QL527.T7  
 Tropiduridae: QL666.L287  
 Tropisms  
   Biology: QH514  
 Tropopause  
   Meteorology: QC881.2.T75

## INDEX

- Troposphere
  - Meteorology: QC881.2.T75
- Tropospheric radio wave propagation: QC973.4.T76
- Tropospheric radio waves
  - Radio meteorology: QC973.4.T76
- Troupials: QL696.P2475
- Trout
  - Zoology: QL638.S2
- Trout-perches: QL638.P468
- TRP channels
  - Animal biochemistry: QP552.T77
- True bugs
  - Paleozoology: QE832.H4
- True starfish
  - Paleozoology: QE783.A7
- Trumpeters (Birds): QL696.G874
- Trumpetfishes: QL638.A848
- Truncatellidae: QL430.5.T78
- Trunk
  - Anatomy: QL950.3+
  - Regional anatomy: QM540+
- Trunk muscles
  - Human anatomy: QM161
- Trunks, Tree: QK646.7
- Truth
  - Philosophy of science: Q175.32.T78
- Truth maintenance systems
  - Artificial intelligence: Q338
- Trypauchenidae: QL638.T95
- Trypetheliaceae: QK585.T7
- Trypetidae: QL537.T42
- Trypoxylidae: QL568.T79
- Trypsin
  - Animal biochemistry: QP609.T7
- Trypsinogen
  - Animal biochemistry: QP609.T7
- Tryptophan
  - Animal biochemistry: QP562.T7
- Tryptophan oxygenase
  - Animal biochemistry: QP603.T78
- Tuatara: QL666.R48
- Tube-eyes: QL638.S88
- Tuberaceae: QK623.T8
- Tuberculariaceae: QK625.T8
- Tuberculosis
  - Microbiology: QR201.T6
- Tuberculosis vaccines: QR189.5.T7+
- Tubeshoulders: QL638.P63
- Tubulidentata: QL737.T75+
  - Paleozoology: QE882.T8
- Tubulins
  - Animal biochemistry: QP552.T82
- Tucu-tucos: QL737.R642
- Tuff
  - Petrology: QE461+
- Tufts
  - Animal biochemistry: QP552.T83
- Tugtupite
  - Mineralogy: QE391.T85
- Tularemia
  - Microbiology: QR201.T8
- Tulasnellaceae: QK629.T8
- Tumbling flower beetles: QL596.M6
- Tumor immunology: QR188.6
- Tumor necrosis factor
  - Immunology: QR185.8.T84
- Tumors
  - Microbiology: QR201.T84
- Tuna
  - Zoology: QL638.S35
- Tundra ecology: QH541.5.T8
- Tundras
  - Botany: QK938.T8
  - Ecology: QH541.5.T8
- Tungidae: QL599.7.T8
- Tungstates
  - Mineralogy: QE389.67
- Tungsten
  - Chemical element: Q1 .W1
- Tungsten ores
  - Mineralogy: QE390.2.T85
- Tunguska meteorite: QB756.T8
- Tunicata
  - Paleozoology: QE840.5
  - Zoology: QL613
- Tuning forks in sound vibrations: QC241
- Tunneling
  - Solid state physics: QC176.8.T8
  - Superconductors: QC611.97.T86
- Tunneling spectroscopy
  - Physics: QC454.T75
- Tupaiaidae: QL737.S254
- Turbidites: QE471.15.T8
- Turbidity
  - Effect on plants and animals: QH545.T87
  - Meteorological optics: QC976.T8
- Turbinellidae: QL430.5.T85
- Turbinidae: QL430.5.T9
- Turbulence
  - Meteorology: QC880.4.T8
  - Plasma physics: QC718.5.T8
- Turdidae: QL696.P288
- Turgescence
  - Cytology: QH621
- Turing test
  - Artificial intelligence: Q341
- Turkeys
  - Zoology: QL696.G27
- Turneraceae: QK495.T8
- Turnicidae: QL696.G89
- Turnstones: QL696.C43
- Turquoise
  - Mineralogy: QE394.T8
- Turretsnails: QL430.5.T96

## INDEX

- Turridae: QL430.5.T95
    - Paleozoology: QE809.T88
  - Turritellidae: QL430.5.T96
    - Paleozoology: QE809.T9
  - Turtles
    - Anecdotes and stories: QL795.T8
    - Zoology: QL666.C5+
  - Tusk shells: QL430.8
  - Tussock moths: QL561.L9
  - Tuttle comet: QB723.T8
  - Twilight phenomena
    - Meteorological optics: QC976.T9
  - Twins
    - Embryology: QL971+
  - Twisted cubics: QA581
  - Twisted-winged parasites
    - Zoology: QL599+
  - Twistor theory
    - Atomic physics: QC173.75.T85
  - Two body problem
    - Theoretical astronomy: QB362.T9
  - Two-dimensional electrophoresis
    - Animal biochemistry: QP519.9.T84
  - Two-phase flow
    - Fluid dynamics: QA922
  - Two-toed tree sloths: QL737.E238
  - Tylidae: QL537.M43
  - Type I superconductors: QC611.98.T86
  - Type II superconductors: QC611.98.T87
  - TypeScript (Computer program language): QA76.73.T97
  - Typewriting
    - Physiology: QP310.T9
  - Typhaceae: QK495.T9
  - Typhlopidae: QL666.O685
  - Typhoid fever
    - Microbiology: QR201.T9
  - Typhoid vaccine: QR189.5.T9
  - Typhoons: QC948
  - Typhus fever
    - Microbiology: QR201.T95
  - Typical antbirds: QL696.P2816
  - Tyrannidae: QL696.P289
  - Tyrant flycatchers: QL696.P289
  - Tyrminase
    - Animal biochemistry: QP603.M6
  - Tyrosine
    - Animal biochemistry: QP562.T9
  - Tytonidae: QL696.S85
- U
- Uakaris: QL737.P959
  - Ubiquinones
    - Animal biochemistry: QP801.U24
  - Ubiquitin
    - Animal biochemistry: QP552.U24
  - Ubiquitous computing
    - Digital computers: QA76.5915
  - Ubuntu
    - Computer software
      - Operating systems: QA76.774.U28
  - Udeonychophora: QL448.5+
  - Udoteaceae
    - Botany: QK569.U46
  - Ulidiidae: QL537.U4
  - Ulmaceae: QK495.U4
  - Uloboridae: QL458.42.U4
  - Ulopidae: QL527.U4
  - Ulotrichaceae: QK569.U5
  - Ultra-Neptunian planets
    - Perturbations: QB389
  - Ultrabasic rocks: QE462.U4
  - Ultracentrifugation
    - Animal biochemistry: QP519.9.U47
  - Ultracold neutrons: QC793.5.C64+
  - Ultrahigh vacuum
    - Fluid mechanics: QC166.5
  - Ultrasonic rays
    - Physiological effect: QP82.2.U37
  - Ultrasonic waves
    - Analytical chemistry: QD75.4.U48
  - Ultrasonics
    - Physics: QC244
  - Ultrastructural studies
    - Virology: QR387.5
  - Ultrastructure
    - Bacteria: QR75+
    - Human histology: QM550+
  - Ultratrace analysis
    - Animal biochemistry: QP519.9.U48
  - Ultraviolet
    - Determinative mineralogy: QE369.U4
  - Ultraviolet astronomy: QB474
  - Ultraviolet microscopes: QH212.U48
  - Ultraviolet radiation: QH543.95
    - Effect on cells: QH652.4
  - Ultraviolet rays
    - Effect on plants: QK757
    - Genetic effects: QH465.U4
    - Meteorological optics: QC976.U4
    - Physiological effect: QP82.2.U4
  - Ultraviolet spectroscopy
    - Analytical chemistry: QD96.U4
  - Ultraviolet spectrum
    - Physics: QC459+
  - Ulvaceae: QK569.U55
  - Ulvales: QK569.U6
  - Ulvophyceae: QK569.U66
  - Umbelliferae: QK495.U48
  - Umbilicariaceae: QK585.U5
  - Umbridae: QL638.U5
  - UMI Online (Videotex system): QA76.57.U43

## INDEX

- Uncertainty, Measurement
  - Mathematical statistics: QA276.8
- Uncertainty theory
  - Information theory: Q375
- Unconsciousness
  - Neurophysiology: QP411
- Unconsolidated sediments
  - Petrology: QE471.2
- Underclay
  - Petrology: QE471.38
- Underground cosmic rays: QC485.9.U6
- Underground ecology: QH541.5.U55
- Underwater acoustics: QC242+
- Underwater physiology
  - Animals: QP82.2.U45
- Underwings (Lepidoptera): QL561.N7
- Undulant fever
  - Microbiology: QR201.B8
- Ungulata: QL737.U4+
- Ungulates
  - Paleozoology: QE882.U2+
- Unified field theories
  - Atomic physics: QC173.68+
- Uniform flow
  - Fluid dynamics: QA922.5
- Uniform spaces
  - Topology: QA611.25
- Unionicolidae: QL458.2.U5
- Unionidae: QL430.7.U6
  - Paleozoology: QE812.U6
- Unit method of teaching
  - Mathematics teaching: QA20.U55
- United States Geological Survey: QE75+
- Units of measurement: QC81+
- Univac: QA76.8.U6
- Universal algebra: QA251
- Universal solvent
  - Alchemy: QD26.5.A4
- Universalities
  - Condensed matter physics: QC173.458.U54
- Universe
  - Descriptive astronomy: QB495+
- UNIX
  - Computer software
    - Operating systems: QA76.774.U64
- Unsolvability
  - Recursion theory
    - Mathematical logic: QA9.63
- UPC (Computer program language): QA76.73.U63
- Uplands ecology: QH541.5.U64
- Upper atmosphere
  - Meteorology: QC878.5+
- Upper Cretaceous
  - Stratigraphy: QE688
- Upper currents
  - Wind: QC935
- Upper extremities
  - Physiology: QP333+
- Upper Jurassic
  - Stratigraphy: QE684
- Upper mantle project
  - Structural geology: QE501.4.U6
- Upper Triassic
  - Stratigraphy: QE679
- Upupidae: QL696.U68
- Upupiformes: QL696.U6+
- Uraeotyphlidae: QL668.A69
- Ural computer: QA76.8.U7
- Uranates
  - Mineralogy: QE389.65
- Uraniidae: QL561.U7
- Uraninite
  - Mineralogy: QE391.U65
- Uranium
  - Chemical element: Q1 .U7
- Uranium alloys
  - Analytical chemistry: QD137.U73
- Uranium compounds
  - Spectra: QC464.U73
- Uranium mining
  - Effect on plants and animals: QH545.U7
- Uranium ores
  - Mineralogy: QE390.2.U7
- Uranoscopidae: QL638.U7
- Uranothallite
  - Mineralogy: QE391.L5
- Uranus (Planet): QB681+
  - Perturbations: QB387
  - Satellites: QB406
- Urate oxidase
  - Animal biochemistry: QP603.U7
- Urban climatology: QC981.7.U7
- Urban ecology
  - Biology: QH541.5.C6
- Urban geology: QE39.5.U7
- Urban growth
  - Effect on plants and animals: QH545.C545
- Urban insects
  - Zoology: QL472.7
- Urban sprawl
  - Effect on plants and animals: QH545.C545
- Urea
  - Aliphatic compounds: QD315
  - Animal biochemistry: QP801.U7
- Urease
  - Animal biochemistry: QP609.U7
- Uredinales: QK627.A1+
- Ureters
  - Human anatomy: QM408
  - Physiology: QP250
- Urethra
  - Anatomy: QL875
  - Human anatomy: QM413

## INDEX

- Urethra
    - Physiology: QP250.8
  - Uric acid
    - Plant constituent: QK898.U68
  - Uricase
    - Animal biochemistry: QP603.U7
  - Uridine diphosphoglucurono-syltransferase
    - Animal biochemistry: QP606.U7
  - Urinary organs
    - Human anatomy: QM401+
    - Human embryology: QM695.U74
    - Physiology: QP248+
  - Urinary organs secretions: QP211
  - Urinary system
    - Microbiology: QR171.U7
  - Urine
    - Physiology: QP211
  - Urnatellidae: QL400.5.U7
  - Urochordata
    - Zoology: QL613
  - Urocoptidae: QL430.5.U68
  - Urocteidae: QL458.42.U7
  - Urocyclidae: QL430.5.U7
  - Urodacidae: QL458.72.S3
  - Urodela: QL668.C2+
  - Urodontidae
    - Zoology: QL596.U75
  - Urogenital system
    - Anatomy: QL871+
  - Urolophidae: QL638.85.D3
  - Uronic acids
    - Plant constituent: QK898.U7
  - Uropeltidae: QL666.O688
  - Uropodidae: QL458.2.U7
  - Uropygi: QL458.85+
  - Urothripidae: QL598.3.U7
  - Ursidae: QL737.C27
  - Urticaceae: QK495.U7
  - User interfaces
    - Computer science: QA76.9.U83
  - Ustilaginaceae: QK628.U8
  - Ustilaginales: QK628.A1+
  - Ustomycetes: QK627.3+
  - Uteroglobin
    - Animal biochemistry: QP552.U86
  - Uterus
    - Physiology: QP262
  - Utilities
    - Computer software: QA76.76.U84
- V
- Vacant lot ecology: QH541.5.V27
  - Vaccines
    - Immunology: QR189+
  - Vacuum
    - Atomic physics: QC174.52.V33
  - Vacuum
    - Gas mechanics: QC166+
  - Vacuum calorimeters: QC293.V3
  - Vacuum polarization
    - Electrodynamics: QC648
  - Vacuum techniques
    - Chemistry: QD63.V33
  - Vaejovidae: QL458.72.V4
  - Vaginulidae: QL430.5.V4
  - Valence fluctuations
    - Solid state physics: QC176.8.V34
  - Valencienniidae
    - Paleozoology: QE809.V2
  - Valerianaceae: QK495.V3
  - Validation
    - Computer software: QA76.76.V47
  - Valine
    - Animal biochemistry: QP562.V3
  - Valley ecology: QH541.5.V3
  - Valley winds: QC939.M8
  - Valleys
    - Biogeography: QH87.2
    - Ecology: QH541.5.V3
    - Zoology: QL113.77
  - Valloniidae: QL430.5.V34
  - Valoniaceae: QK569.V3
  - Valsaceae: QK623.V35
  - Values
    - Philosophy of science: Q175.32.V35
  - Valvatidae: QL430.5.V36
  - Vampires
    - Zoology: QL737.C52
  - Vampyroreuthidae: QL430.3.V35
  - Van Allen radiation belts: QC809.V3
  - Van Biesbroeck comet: QB723.V35
  - Van de Graaff generators
    - Nuclear physics: QC787.V3
  - Vanadates
    - Mineralogy: QE389.64
  - Vanadinite
    - Mineralogy: QE391.V35
  - Vanadium
    - Chemical element: Q1 .V2
    - Effect on plants and animals: QH545.V3
    - Superconductors: QC611.98.V35
  - Vanadium ores
    - Mineralogy: QE390.2.V36
  - Vandicidae: QL510.3.V3
  - Vangas: QL696.P29
  - Vangidae: QL696.P29
  - Vanhoeffeniidae: QL449.65.V34
  - Vanhorniidae: QL568.V3
  - Vapor densities
    - Thermochemistry: QD533
  - Vapor pressure
    - Physical chemistry: QD545
    - Physics: QC304



## INDEX

- Vaporization of solids
  - Physics: QC309
- Vapors
  - Thermochemistry: QD531
- Varanidae: QL666.L29
- Variable stars: QB833+
- Variable stars, Cataclysmic: QB837.5
- Variables
  - Stellar spectroscopy: QB895
- Variance, Analysis of: QA279+
- Variation
  - Evolution: QH401+
  - Fungi: QK602
  - Microbiology: QR73
  - Paleontology: QE721.2.V3
  - Plants: QK983
  - Reptiles and amphibians: QL645.5
  - Virology: QR392
- Variation of latitude
  - Astronomy: QB237
- Variational principles
  - Quantum mechanics: QC174.17.V35
  - Science: Q172.5.V37
- Variations
  - Climatology: QC902.8+
- Variations, Diurnal
  - Cosmic ray physics: QC485.8.V3
- Varicella-zoster virus
  - Virology: QR400.2.V37
- Varroidae: QL458.2.V37
- Vascular endothelium
  - Physiology: QP110.V34
- Vascular muscle
  - Cardiovascular system: QP110.V37
- Vascular resistance
  - Cardiovascular system: QP110.V38
- Vascular system
  - Anatomy: QL835+
  - Human anatomy: QM178+
- Vasidae: QL430.5.T85
  - Paleozoology: QE809.V3
- Vasoactive intestinal peptides
  - Animal biochemistry: QP572.V28
- Vasomotor control
  - Physiology: QP109
- Vasopressin
  - Animal biochemistry: QP572.V3
- Vaucheriaceae: QK569.V35
- VBScript (Computer program language): QA76.73.V27
- Vector algebra: QA200+
- Vector analysis: QA433
  - Mathematical physics: QC20.7.V4
  - Quantum mechanics: QC174.17.V4
- Vector bundles
  - Topology: QA612.63
- Vector fields
  - Differential topology: QA613.619
- Vector spaces
  - Linear and multilinear algebra: QA186
- Vector theory
  - Electricity: QC528.V4
- Vegetable oils
  - Nutrition: QP144.O44
- Vegetables
  - Nutrition: QP144.V44
- Vegetales
  - Microbiology: QR122
- Vegetation dynamics: QK910
- Vegetation mapping
  - Botany: QK63
- Vegetation monitoring
  - Botany: QK46.5.V44
- Vegetation productivity: QK909.5
- Vegetation surveys
  - Botany: QK62
- Vegetative interrelation: QK911
- Vegetative organs
  - Physiology: QK720
  - Plant anatomy: QK644+
- Veillonellaceae: QR82.V4
- Veins
  - Geology: QE611+
  - Human anatomy: QM191
  - Physiology: QP106.4
- Velds
  - Botany: QK938.P7
- Velliferidae: QL638.V4
- Veliidae: QL523.V45
- Velloziaceae: QK495.V4
- Velocimetry
  - Optical measurements: QC367.3.V45
- Velocipedidae: QL523.V46
- Velocities, Stellar: QB810+
- Velocity
  - Electric waves: QC665.V4
  - Electrochemistry: QD562.M54
  - Mechanics: QC137.5+
  - Plasma physics: QC718.5.T7
  - Sound: QC233
  - Wind: QC933
- Velocity of light: QC407
- Velutinidae: QL430.5.V385
- Velvet ants: QL568.M8
- Velvet spiders: QL458.42.E7
- Velvet worms: QL448+
- Veneridae: QL430.7.V5
  - Paleozoology: QE812.V4
- Veneroida
  - Paleozoology: QE812.V45
- Venom
  - Animal biochemistry: QP632.V46
  - Physiology: QP235
- Venous system
  - Physiology: QP106.4

## INDEX

- Venturiaceae: QK623.V46
- Venus (Planet)
  - Descriptive astronomy: QB621+
  - Perturbations: QB372
  - Transit: QB509+
- Verbena
  - Botany: QK495.V48
- Verbenaceae: QK495.V48
- Verification
  - Computer software: QA76.76.V47
- Vermiculite
  - Mineralogy: QE391.V5
- Vermiform invertebrates
  - Paleozoology: QE791
  - Zoology: QL386+
- Veronicellidae: QL430.5.V4
- Verrucariaceae: QK585.V4
- Vertebral column
  - Human anatomy: QM111
- Vertebrate embryology: QL959
- Vertebrates
  - Nervous system: QL937
  - Paleozoology: QE841+
  - Zoology: QL605+
- Vertex detectors
  - Nuclear physics: QC787.V45
- Vertical circle
  - Astronomical instruments: QB103
- Vertical distribution
  - Fishes: QL639.6
- Vesperidae: QL596.V47
- Vespertilionidae: QL737.C595
- Vespidae: QL568.V5
- Vesuvianite
  - Mineralogy: QE391.V55
- Viability counts
  - Microbiology: QR69.V53
- Vibration
  - Physiological effect: QP82.2.V5
- Vibrational spectra
  - Analytical chemistry: QD96.V53
  - Physics: QC454.V5
- Vibrations
  - Acoustics: QC235+
  - Physics: QC136
  - Sound: QC231
- Vibrations of elastic bodies
  - Analytic mechanics: QA935+
- Vibrionaceae: QR82.V53
- Video astronomy: QB126
- Video microscopy: QH222
- Videotex systems: QA76.55+
- Vigesimal system: QA141.8.V54
- Villiaumite
  - Mineralogy: QE391.V6
- Vinegarflies: QL537.D76
- Vineyards
  - Botany: QK938.V5
- Vinyl polymers
  - Organic chemistry: QD383.V56
- Violaceae: QK495.V5
- Violations
  - Elementary particle physics: QC793.3.V5
- Violet
  - Botany: QK495.V5
- Viomycin
  - Organic chemistry: QD377.V5
- Viperfishes: QL638.C534
- Viperidae: QL666.O69
- Vipers: QL666.O69
- Viral antigens
  - Immunology: QR186.6.V57
- Viral diarrhea
  - Microbiology: QR201.V53
- Viral hepatitis
  - Microbiology: QR201.H46
- Vireolaniidae: QL696.P294
- Vireonidae: QL696.P2945
- Vireos: QL696.P2945
- Virgo Cluster: QB858.8.V57
- Viroids
  - Virology: QR500
- Virology
  - Microbiology: QR355+
- Virtual computer systems: QA76.9.V5
- Virtual humans
  - Artificial intelligence: Q343
- Virtue epistemology
  - Philosophy of science: Q175.32.V57
- Virulence
  - Microbiology: QR175
- Virus diseases
  - Microbiology: QR201.V55
- Virus function
  - Virology: QR465
- Virus-host interaction
  - Virology: QR482
- Virus-induced immunosuppression
  - Immunology: QR188.46
- Virus structure
  - Virology: QR450+
- Virus vaccines: QR189.5.V5
- Virus-vector interaction
  - Virology: QR484
- Virus-virus interaction
  - Virology: QR480
- Viruses, Computer: QA76.76.C68
- Viscaceae: QK495.V53
- Viscera
  - Human embryology: QM695.V55
- Visceral reflex
  - Neurophysiology: QP372.8

## INDEX

- Viscosity
  - Descriptive fluid mechanics: QC167
  - Liquids: QC145.4.V5
  - Matter and antimatter: QC189+
- Viscous fluids
  - Descriptive fluid dynamics: QC154
  - Fluid dynamics: QA929
- Visibility
  - Meteorological optics: QC976.V5
- Vision, Binocular
  - Physiology: QP487+
- Vision, Peripheral
  - Neurophysiology: QP494
- Vista
  - Computer software
    - Operating systems: QA76.774.M56
- Visual Basic
  - Programming languages: QA76.73.M53
- Visual Basic for applications
  - Programming languages: QA76.73.M53
- Visual pigments
  - Animal biochemistry: QP671.V5
- Visual programming
  - Digital computers: QA76.65
- Visual space perception
  - Physiology: QP491+
- Visualization, Information
  - Computer science: QA76.9.I52
- Vitaceae: QK495.V55
- Vital force (Biology): QH341
- Vitalism
  - Philosophy of science: Q175.32.V65
- Vitamin A
  - Animal biochemistry: QP772.V5
- Vitamin B complex
  - Animal biochemistry: QP772.V52
- Vitamin B1
  - Animal biochemistry: QP772.T5
- Vitamin B12
  - Animal biochemistry: QP772.C9
- Vitamin B15
  - Animal biochemistry: QP772.P3
- Vitamin B2
  - Animal biochemistry: QP772.R5
- Vitamin B5
  - Animal biochemistry: QP772.P35
- Vitamin B6
  - Animal biochemistry: QP772.P9
- Vitamin BT
  - Animal biochemistry: QP772.C3
- Vitamin C
  - Animal biochemistry: QP772.A8
  - Effect on plants: QK753.V58
- Vitamin D
  - Animal biochemistry: QP772.V53
- Vitamin D2
  - Animal biochemistry: QP772.E74
- Vitamin E
  - Animal biochemistry: QP772.T6
- Vitamin G
  - Animal biochemistry: QP772.R5
- Vitamin H
  - Animal biochemistry: QP772.B55
- Vitamin K
  - Animal biochemistry: QP772.V55
- Vitamin K-dependent proteins
  - Animal biochemistry: QP552.V58
- Vitamin K2
  - Animal biochemistry: QP772.V56
- Vitamin M
  - Animal biochemistry: QP772.F6
- Vitamin P
  - Animal biochemistry: QP772.B5
- Vitamin PP
  - Animal biochemistry: QP772.N5
- Vitamins
  - Animal biochemistry: QP771+
  - Microbial metabolism: QR92.V5
  - Plant constituent: QK898.V5
- Vitronellidae: QL430.5.V65
- Vivariums: QH68
- Viverridae: QL737.C28
- Vivianite
  - Mineralogy: QE391.V64
- Viviparidae: QL430.5.V7
- Viviparity
  - Physiology: QP280
- Vivisection: QP45
- VLF emissions
  - Radio meteorology: QC973.4.V2
- VLF radio wave propagation
  - Radio meteorology: QC973.4.V2
- Vocalization
  - Animal behavior: QL765
  - Birds: QL698.5
- Vocational guidance: QH314
  - Animal biochemistry: QP517.5
  - Aquatic biology: QH90.45
  - Astronomy: QB51.5
  - Biological chemistry: QP517.5
  - Botany: QK50.5
  - Chemistry: QD39.5
  - Computer science: QA76.25
  - Entomology: QL468.4
  - Freshwater biology: QH96.45
  - Genetics: QH439
  - Geodesy: QB281.5
  - Geology: QE34
  - Marine biology: QH91.45
  - Mathematics: QA10.5
  - Meteorology: QC869.5
  - Natural history: QH49
  - Physics: QC29
  - Science: Q147+

## INDEX

- Vocational guidance
    - Statistics: QA276.17
    - Zoology: QL50.5
  - Voice
    - Human anatomy: QM251+
    - Physiology: QP306
  - Voice computing
    - Computer science: QA76.9.V65
  - Volcanic activity, Prediction of: QE527.5
  - Volcanic ash, tuff, etc.
    - Petrology: QE461+
  - Volcanic eruptions
    - Effect on plants: QK759.5
  - Volcanic gas reservoirs
    - Geology: QE527.75
  - Volcanic gases and vapors: QE527.75
  - Volcanic hazard analysis: QE527.6
  - Volcanic plumes: QE527.7
  - Volcanism
    - Geology: QE521.5+
    - Mars (Planet): QB643.V65
    - Planets: QB603.V65
    - Venus (Planet): QB623.V65
  - Volcanite: QE462.V64
  - Volcano monitoring: QE527.5
  - Volcanoes
    - Geology: QE521.5+
    - Mars (Planet): QB643.V65
    - Venus (Planet): QB623.V65
  - Volcanoes and earthquakes: QE521+
  - Volcanoes and weather
    - Meteorology: QC981.8.V65
  - Voldo
    - Botany: QK495.M67
  - Voles: QL737.R666
  - Volition
    - Neurophysiology: QP405
  - Volkonskoite
    - Mineralogy: QE391.V68
  - Volta effect
    - Electrostatics: QC581.V6
  - Voltage-sensitive dyes
    - Animal biochemistry: QP519.9.V65
  - Voltameters
    - Physics: QC615
  - Voltammetry
    - Electrochemical analysis: QD116.V64
  - Voltmeters
    - Physics: QC618
  - Volume
    - Measurement: QC104
  - Volumetric analysis
    - Analytical chemistry: QD111
    - Organic chemistry: QD272.V6
  - Volutidae: QL430.5.V75
  - Paleozoology: QE809.V7
  - Volutomitridae: QL430.5.V77
  - Volvocaceae: QK569.V9
  - Volvocales: QK569.V93
  - Volvocida: QL368.V6
  - Vombatidae: QL737.M39
  - Von Willebrand factor: QP93.7.V65
  - Vortex flows
    - Fluid mechanics: QC159
  - Vortex motion
    - Fluid dynamics: QA925
  - Vorticity
    - Meteorology: QC880.4.V6
  - Voshiaceae: QK495.V6
  - Voyages
    - Natural history: QH11
  - Voyages and expeditions
    - Botany: QK5
  - Voyages and expeditions, Scientific: Q115+
  - Vredefort Dome (South Africa): QB756.V74
  - Vultures (General): QL696.C53
  - Vulturidae
    - Paleozoology: QE872.V9
- W
- W bosons
    - Elementary particle physics: QC793.5.B62+
  - Wagnerite
    - Mineralogy: QE391.W3
  - Wagtails: QL696.P252
  - Walking
    - Physiology: QP310.W3
  - Walnut
    - Botany: QK495.J85
  - Walrus
    - Zoology: QL737.P62
  - War
    - Effect on plants and animals: QH545.W26
  - War and mathematics: QA10.8
  - Warbleflies: QL537.O4
  - Wart snakes: QL666.O62
  - Wasps
    - Paleozoology: QE832.H9
    - Zoology: QL563+
  - Waste disposal
    - Chemistry: QD64
    - Effect on plants and animals: QH545.W28
  - Water
    - Analytical chemistry: QD142
    - Bacterial physiology: QR97.W37
    - Biogeography: QH90+
    - Chemistry: QD39.3.W37
    - Ecology: QH541.5.W3
    - Inorganic chemistry: QD169.W3
    - Mars (Planet): QB643.W38
    - Microbial ecology: QR105+
    - Radiation chemistry: QD651.W3
    - Spectra: QC464.W37

## INDEX

- Water and plants: QK870+
- Water bears: QL447.5
- Water birds
  - Zoology: QL678.5+
- Water boatmen
  - Zoology: QL523.C75
- Water chestnut
  - Botany: QK495.T66
- Water fleas: QL444.B83
- Water immersion
  - Physiological effect: QP82.2.W35
- Water milfoil
  - Botany: QK495.H2
- Water plantain
  - Botany: QK495.A4
- Water pollution
  - Effect on plants and animals: QH545.W3
  - Physiological effect: QP82.2.W36
- Water reptiles: QL665.3+
- Water resources development
  - Effect on plants and animals: QH545.W33
- Water-rock interaction
  - Petrology: QE431.6.W38
- Water scavenger beetles: QL596.H8
- Water scorpions: QL523.N5
- Water shrews: QL737.S73
- Water-soluble polymers
  - Organic chemistry: QD382.W3
- Water-soluble vitamins
  - Animal biochemistry: QP772.W38
- Water starwort
  - Botany: QK495.C1155
- Water striders
  - Zoology: QL523.G4
- Water surface
  - Fresh water: QL142
- Waterleaf
  - Botany: QK495.H88
- Waterlily
  - Botany: QK495.N97
- Waterspouts: QC957
- Waterwort
  - Botany: QK495.E37
- Watobiidae: QL449.55.W3
- Wattled crows: QL696.P224
- Wave equations
  - Atomic physics: QC174.26.W28
- Wave functions
  - Atomic physics: QC174.26.W3
- Wave mechanics
  - Elementary particle physics: QC793.3.W3
  - Quantum mechanics: QC174.2+
- Wave motions
  - Acoustics: QC231
- Wave-particle duality
  - Radiation physics: QC476.W38
- Wave propagation
  - Solid state physics: QC176.8.W3
- Wave propagation in elastic solids
  - Analytic mechanics: QA935+
- Wave propagation in fluids: QA927
- Wave theory of light: QC403
- Wavelets
  - Geology: QE33.2.W38
  - Harmonic analysis (General): QA403.3
  - Mathematical physics: QC20.7.W38
- Waves
  - Fluid dynamics: QC157
  - Meteorology: QC880.4.W3
  - Plasma physics: QC718.5.W3
- Waves, Electric
  - Physics: QC660.5+
- Waves, Sound (Physics): QC242.8+
- Wax moths: QL561.G3
- Wax myrtle
  - Botany: QK495.M83
- Waxbills: QL696.P244
- Waxes
  - Animal biochemistry: QP752.W3
- Waxwings: QL696.P22
- Weak interactions
  - Nuclear physics: QC794.8.W4
- Weapons, Animal
  - Anatomy: QL940
- Wearable computers
  - Digital computers: QA76.592
- Weasels
  - Anecdotes and stories: QL795.W4
  - Zoology: QL737.C25
- Weather
  - Physiological effect: QP82.2.C5
- Weather almanacs: QC999
- Weather broadcasting
  - Meteorology: QC877.5
- Weather charts: QC878
- Weather control
  - Meteorology: QC926.6+
- Weather forecasting: QC994.95+
- Weather lore: QC998
- Weather maps: QC878
- Weather modification
  - Meteorology: QC926.6+
- Weather radar networks
  - Radar meteorology: QC973.8.W4
- Weather satellites
  - Meteorology: QC879.4+
- Weather services: QC875.A2+
- Weather signals: QC877
- Weathering
  - Geology: QE570
- Weaverbirds: QL696.P264
- Web-based instruction
  - Mathematics teaching: QA20.W43

## INDEX

- Web databases
  - Computer science: QA76.9.W43
- Web geometry: QA648.5
- Web spinners
  - Zoology: QL539+
- Web-spinning sawflies: QL568.P3
- Weed control
  - Effect on plants and animals: QH545.W43
- Weighing instruments: QC107
- Weight diagrams
  - Elementary particle physics: QC793.3.W4
- Weightlessness
  - Physiological effect: QP82.2.W4
- Weights and measures: QC81+
- Wells
  - Zoology: QL148
- Weltwitschiaceae: QK494.5.W4
- Western immunoblotting
  - Analytical biochemistry: QP519.9.W47
- Wetland ecology: QH541.5.M3
- Wetlands
  - Biogeography: QH87.3
  - Ecology: QH541.5.M3
  - Zoology: QL113.8+
- Wetting, Heat of
  - Physics: QC310
- Whale lice: QL444.M315
- Whale shark: QL638.95.R4
- Whales
  - Anecdotes and stories: QL795.W5
- Whip scorpions: QL458.85+
- Whirligig beetles: QL596.G8
- Whiskers
  - Anatomy: QL942
- Whistlers
  - Radio meteorology: QC973.4.W5
- White blood cells
  - Physiology: QP95+
- White dwarfs (Astronomy): QB843.W5
- White-eyes: QL696.P298
- White mangrove
  - Botany: QK495.C7
- White matter
  - Physiology: QP364.7
- White noise theory
  - Stochastic analysis: QA274.29
- White whale
  - Zoology: QL737.C433
- Whitefishes
  - Zoology: QL638.M2, QL638.S2
- Whiteflies
  - Zoology: QL527.A5
- Whole brain learning
  - Mathematics teaching: QA20.W46
- Whooping cough
  - Microbiology: QR201.W6
- Wide gap semiconductors
  - Semiconductor physics: QC611.8.W53
- Wiggler magnets: QC757.92
- Wild asses
  - Anecdotes: QL795.A8
- Wild boars
  - Anecdotes and stories: QL795.W6
- Wild flowers
  - Botany: QK85.5
- Wild food gathering: QH82+
- Wild horses
  - Anecdotes and stories: QL795.H7
- Wild ponies
  - Anecdotes and stories: QL795.H7
- Wild rabbits
  - Anecdotes and stories: QL795.H35
- Wilderness areas: QH75+
- Wildlife attracting: QL59
- Wildlife conservation
  - Zoology: QL81.5+
- Wildlife marking: QL60.5
- Wildlife monitoring: QL83.17
- Wildlife refuges
  - Zoology: QL81.5+
- Wildlife reintroduction: QL83.4
- Wildlife relocation
  - Zoology: QL83.2
- Wildlife replacement
  - Zoology: QL83.2
- Wildlife rescue
  - Zoology: QL83.2
- Wildlife viewing sites: QL60
- Wildlife watching: QL60
- Willow
  - Botany: QK495.S16
- Wilting
  - Phytochemistry: QK871
- Wind
  - Effect on plants: QK754.7.W55
  - Meteorology: QC930.5+
- Wind and atmospheric pressure: QC934
- Wind and atmospheric temperature: QC934.2
- Wind chill: QC934.2
- Wind direction: QC933
- Wind erosion
  - Mars (Planet): QB643.W56
- Wind scorpions: QL458.8+
- Window functionality
  - Computer software: QA76.76.W56
- Windows
  - Computer software: QA76.76.W56
- Windows 10
  - Computer software
    - Operating systems: QA76.774.M435
- Windows 7
  - Computer software
    - Operating systems: QA76.774.M43

## INDEX

- Windows 8
  - Computer software
  - Operating systems: QA76.774.M434
- Windows Me
  - Computer software
  - Operating systems: QA76.774.M48
- Windows NT
  - Computer software
  - Operating systems: QA76.774.M53
- Windows PowerShell (Computer program language):  
QA76.73.W56
- Windows server
  - Computer software
  - Operating systems: QA76.774.M55
- Windows Vista
  - Computer software
  - Operating systems: QA76.774.M56
- Windows XP
  - Computer software
  - Operating systems: QA76.774.M58
- Winds
  - Venus (Planet): QB623.W56
- Wings
  - Anatomy: QL950.8
- Winter
  - Astronomy: QB637.8
- Winter craneflies: QL537.T7
- Winter temperatures: QC905
- Winteraceae: QK495.W5
- Witch hazel
  - Botany: QK495.H3
- WKB approximation
  - Mathematical physics: QC20.7.W53
- Wnt proteins
  - Animal biochemistry: QP552.W58
- Wobbegongs: QL638.95.O7
- Wolf-Rayet stars: QB843.W6
- Wolf spiders: QL458.42.L9
- Wolffian body
  - Anatomy: QL872.7
- Wolffishes: QL638.A54
- Wolfram
  - Chemical element: Q1 .W1
- Wolfram language (Computer program language):  
QA76.73.W65
- Wolframite
  - Mineralogy: QE391.W6
- Wollastonite
  - Mineralogy: QE391.W66
- Wolves
  - Anecdotes and stories: QL795.W8
- Wombats
  - Anecdotes and stories: QL795.W83
  - Zoology: QL737.M39
- Women and computers: QA76.9.W65
- Women astronomers: QB34.5
- Women biologists: QH305.5
- Women chemists: QD20
- Women in astronomy: QB34.5
- Women in chemistry: QD20
- Women in mathematics: QA27.5
- Women in physics: QC14
- Women in science: Q130
- Women life scientists: QH305.5
- Women mathematicians: QA27.5
- Women physicists: QC14
- Women scientists: Q130
- Wood
  - Plant anatomy: QK647
- Wood-decaying fungi: QK604.2.W65
- Wood hoopoes: QL696.U66
- Wood lice: QL444.M34
- Wood sorrel
  - Botany: QK495.O98
- Wood-staining fungi: QK604.2.W66
- Wood warblers
  - Zoology: QL696.P2438
- Wood wasps
  - Zoology: QL568.X5
- Woodcocks: QL696.C48
- Woodhewers: QL696.P24
- Woodpeckers
  - Zoology: QL696.P56
- Woodshrikes: QL696.P265
- Woodswallows: QL696.P216
- Wool
  - Physiology: QP88.3
- Woolly monkeys: QL737.P915
- Work
  - Physiology: QP309
- Work (Force and energy): QC73.8.W65
- Wormfishes: QL638.M5
- Worms
  - Paleozoology: QE791
  - Zoology: QL386+
- Wormsnails: QL430.5.T96
- Woroniaceae: QK621.W6
- Wrasses: QL638.L12
- Wrens: QL696.P287
- Wrenthrushes: QL696.P296
- Wrentits: QL696.P234
- Writing
  - Physiology: QP310.W7
- Writing, Mathematical
  - Mathematics teaching aid: QA20.M38
- Wulff construction
  - Statistical physics: QC174.85.W85
- Wutinoceratidae
  - Paleozoology: QE807.W8

X

## INDEX

- X-ray crystallography: QD945
    - Animal biochemistry: QP519.9.X72
  - X-ray microanalysis
    - Biological research: QH324.9.X2
  - X-ray microscopes: QH212.X2
  - X-ray petrology: QE435
  - X-ray powder
    - Determinative mineralogy: QE369.X2
  - X-ray spectroscopy
    - Analytical biochemistry: QP519.9.X73
    - Analytical chemistry: QD96.X2
  - X-rays
    - Effect on plants: QK757
    - Genetic effects: QH465.X2
    - Physics: QC480.8+
  - X-rays, Solar: QB539.S655
  - X86 assembly language (Computer program language):
    - QA76.73.X16
  - Xanthan gum
    - Microbial metabolism: QR92.X35
  - Xanthomonadida: QL368.H53
  - Xanthopterin
    - Animal biochemistry: QP671.X3
  - Xanthorrhoeaceae: QK495.X3
  - Xantusiidae: QL666.L293
  - Xenarthra: QL737.E2+
    - Paleozoology: QE882.E2
  - Xenobiotics
    - Animal biochemistry: QP529+, QP801.X45
    - Bacterial physiology: QR97.X46
    - Effect on plants: QK753.X45
    - Effect on plants and animals: QH545.X44
  - Xenocephalidae: QL638.X4
  - Xenocongridae: QL638.X45
  - Xenon
    - Chemical element: Q1 .X4
  - Xenopeltidae: QL666.O694
  - Xenophoridae: QL430.5.X46
  - Xenophyophorida: QL368.X4
  - Xenosauridae: QL666.L295
  - Xeric ecology: QH541.5.X45
  - Xerophytes
    - Plant ecology: QK922
  - Xiphiidae: QL638.X5
  - Xiphocentronidae: QL518.X5
  - Xiphosura: QL447.7
  - Xiphosurida
    - Paleozoology: QE826.X5
  - Xiphydriidae: QL568.X5
  - XML (Document markup language): QA76.76.H94
  - Xolalgidae: QL458.2.X65
  - XPath (Computer program language): QA76.73.X57
  - XQuery (Computer program language): QA76.73.X575
  - XSLT (Computer program language): QA76.73.X58
  - Xyelidae: QL568.X7
  - Xylans
    - Animal biochemistry: QP702.X87
  - Xylariaceae: QK623.X9
  - Xylitol
    - Animal biochemistry: QP702.X89
  - Xylophagidae: QL537.X9
  - Xylorictidae: QL561.X9
  - Xylose
    - Animal biochemistry: QP702.X9
  - Xyridaceae: QK495.X9
  - Xystodesmidae: QL449.65.X9
- Y
- Y-particles
    - Elementary particle physics: QC793.5.H42+
  - Yam
    - Botany: QK495.D54
  - Yang-Baxter equation
    - Atomic physics: QC174.52.Y36
  - Yang-Mills theory
    - Atomic physics: QC174.52.Y37
  - Year 2000 date conversion: QA76.76.S64
  - Yeast fungi
    - Botany: QK617.5
  - Yellow fever
    - Microbiology: QR201.Y4
  - Yelloweyed grass
    - Botany: QK495.X9
  - Yersinia infections
    - Microbiology: QR201.Y45
  - Yeti: QL89.2.Y4
  - Ylides
    - Aliphatic compounds: QD305.C3
  - Yponomeutidae: QL561.Y7
  - Ytterbium
    - Chemical element: Q1 .Y3
  - Yttrium
    - Chemical element: Q1 .Y1
  - Yucca moths: QL561.P57
  - Yuccas: QK495.A83
- Z
- Z bosons
    - Elementary particle physics: QC793.5.B62+
  - Z (Computer program language): QA76.73.Z2
  - Z-DNA
    - Animal biochemistry: QP624.5.Z33
  - Zamiaceae: QK494.5.Z35
  - Zanclidae
    - Zoology: QL638.Z28
  - Zaniolepididae: QL638.Z3
  - Zannichelliaceae: QK495.Z3
  - Zapodidae: QL737.R648
  - Zaproridae
    - Zoology: QL638.Z36
  - Zebra shark: QL638.95.S92



## INDEX

- Zebras
  - Anecdotes and stories: QL795.Z42
- Zeeman effect: QC675.5.Z4
- Zeidae: QL638.Z4
- Zeiformes: QL637.9.Z4
- Zeileriidae
  - Paleozoology: QE797.Z4
- ZEKE spectroscopy
  - Physics: QC454.Z44
- Zeledoniidae: QL696.P296
- Zenith telescope
  - Astronomical instruments: QB101
- Zeolites
  - Mineralogy: QE391.Z5
- Zerconidae: QL458.2.Z4
- Zero-point field
  - Atomic physics: QC174.52.Z47
- Zeta functions
  - Mathematical physics: QC20.7.Z47
- Zika virus infection: QR201.Z45
- Zinc
  - Chemical element: Q1 .Z6
  - Effect on plants: QK753.Z5
  - Effect on plants and animals: QH545.Z56
  - Superconductors: QC611.98.Z56
- Zinc alloys
  - Analytical chemistry: QD137.Z5
- Zinc enzymes
  - Animal biochemistry: QP601.75.Z54
- Zinc ores
  - Mineralogy: QE390.2.Z54
- Zinc proteins
  - Animal biochemistry: QP552.Z55
- Zingiberaceae: QK495.Z65
- Ziphiidae: QL737.C438
- Zircon
  - Mineralogy: QE391.Z7
- Zirconium
  - Chemical element: Q1 .Z7
- Zirconium oxide
  - Spectra: QC464.Z57
- Zoantharia: QL377.C7
- Zoarcidae: QL638.Z6
- Zodariidae: QL458.42.Z63
- Zodiac
  - Astronomy: QB803
- Zodiacal light: QB761
- Zoisite
  - Mineralogy: QE391.Z8
- Zones, Ecological: QH541.15.E248
- Zones of climate
  - Meteorology: QC981.8.Z6
- Zonitidae: QL430.5.Z6
  - Paleozoology: QE809.Z9
- Zoo animals: QL77.5
- Zooflagellates: QL368.Z66
- Zoological illustrating: QL46.5
- Zoology: QL1+
  - Secondary education: QL51+
  - Zoology as a profession: QL50.5
  - Zoology, Medical: QL99
  - Zoomastigia: QL368.A12
- Zoophyta
  - Coelenterata: QL379
- Zooplankton: QL123
  - Freshwater: QL143
- Zoosporic fungi: QK604.2.Z66
- Zopfiaceae: QK623.Z64
- Zopheridae (Ironclad beetles): QL596.Z66
- Zoraptera
  - Zoology: QL515.5
- Zoropsidae: QL458.42.Z67
- Zosteraceae: QK495.Z7
- Zosteropidae: QL696.P298
- Zygaenidae: QL561.Z9
- Zygnemataceae: QK569.Z8
- Zygnematales: QK569.Z82
- Zygophyllaceae: QK495.Z9
- Zythiaceae: QK625.Z9