

## PREFACE

The precursor to Class T, *Technology*, was a series of subclasses prepared between 1903 and 1907. The first edition of Class T as a whole was published in 1910, the second in 1922, the third in 1937, the fourth in 1948, and the fifth in 1971. New editions were published in 1995, 1999, 2007, 2009, and 2010; each of these editions cumulated changes that were made since the previous edition was published. Annual editions were issued beginning in 2015. This 2021 edition cumulates changes made since the publication of the 2020 edition.

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[<http://www.loc.gov/cds/>](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/>](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 T and its various subclasses. Kent Griffiths, assistant editor of classification schedules, is responsible for creating new classification records, maintaining the master database, and creating index terms for the captions.

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

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## OUTLINE

T1-995	Technology (General)
T10.5-11.9	Communication of technical information
T11.95-12.5	Industrial directories
T55-55.3	Industrial safety. Industrial accident prevention
T55.4-60.8	Industrial engineering. Management engineering
T57-57.97	Applied mathematics. Quantitative methods
T57.6-57.97	Operations research. Systems analysis
T58.4	Managerial control systems
T58.5-58.64	Information technology
T58.6-58.62	Management information systems
T58.7-58.8	Production capacity. Manufacturing capacity
T59-59.2	Standardization
T59.5	Automation
T59.7-59.77	Human engineering in industry. Man-machine systems
T60-60.8	Work measurement. Methods engineering
T61-173	Technical education. Technical schools
T173.2-174.5	Technological change
T175-178	Industrial research. Research and development
T201-342	Patents. Trademarks
T351-385	Mechanical drawing. Engineering graphics
T391-995	Exhibitions. Trade shows. World's fairs
TA1-2040	Engineering (General). Civil engineering (General)
TA164	Bioengineering
TA165	Engineering instruments, meters, etc. Industrial instrumentation
TA166-167	Human engineering
TA168	Systems engineering
TA170-171	Environmental engineering
TA174	Engineering design
TA177.4-185	Engineering economy
TA190-194	Management of engineering works
TA197-198	Engineering meteorology
TA213-215	Engineering machinery, tools, and implements
TA329-348	Engineering mathematics. Engineering analysis
TA349-359	Mechanics of engineering. Applied mechanics
TA365-367	Acoustics in engineering. Acoustical engineering

## OUTLINE

	Engineering (General). Civil engineering (General) - Continued
TA401-492	Materials of engineering and construction. Mechanics of materials
TA495	Disasters and engineering
TA501-625	Surveying
TA630-695	Structural engineering (General)
TA703-712	Engineering geology. Rock mechanics. Soil mechanics. Underground construction
TA715-787	Earthwork. Foundations
TA800-820	Tunneling. Tunnels
TA1001-1280	Transportation engineering
TA1501-1820	Applied optics. Photonics
TA2001-2040	Plasma engineering
TC1-978	Hydraulic engineering
TC160-181	Technical hydraulics
TC183-201	General preliminary operations. Dredging. Submarine building
TC203-380	Harbors and coast protective works. Coastal engineering. Lighthouses
TC401-506	River, lake, and water-supply engineering (General)
TC530-537	River protective works. Regulation. Flood control
TC540-558	Dams. Barrages
TC601-791	Canals and inland navigation. Waterways
TC801-978	Irrigation engineering. Reclamation of wasteland. Drainage
TC1501-1800	Ocean engineering
TD1-1066	Environmental technology. Sanitary engineering
TD159-168	Municipal engineering
TD169-171.8	Environmental protection
TD172-193.5	Environmental pollution
TD194-195	Environmental effects of industries and plants
TD201-500	Water supply for domestic and industrial purposes
TD419-428	Water pollution
TD429.5-480.7	Water purification. Water treatment and conditioning. Saline water conversion
TD481-493	Water distribution systems

## OUTLINE

	Environmental technology. Sanitary engineering - Continued
TD511-780	Sewage collection and disposal systems. Sewerage
TD783-812.5	Municipal refuse. Solid wastes
TD813-870	Street cleaning. Litter and its removal
TD878-894	Special types of environment Including soil pollution, air pollution, noise pollution
TD895-899	Industrial and factory sanitation
TD896-899	Industrial and factory wastes
TD920-934	Rural and farm sanitary engineering
TD940-949	Low temperature sanitary engineering
TD1020-1066	Hazardous substances and their disposal
TE1-450	Highway engineering. Roads and pavements
TE175-176.5	Highway design. Interchanges and intersections
TE177-178.8	Roadside development. Landscaping
TE200-205	Materials for roadmaking
TE206-209.5	Location engineering
TE210-228.3	Construction details Including foundations, maintenance, equipment
TE250-278.8	Pavements and paved roads
TE279	Streets
TE279.5-298	Pedestrian facilities
TE280-295	Sidewalks. Footpaths. Flagging
TE298	Curbs. Curbstones
TF1-1620	Railroad engineering and operation
TF200-320	Railway construction
TF340-499	Railway equipment and supplies
TF501-668	Railway operation and management
TF670-851	Local and light railways
TF840-851	Elevated railways and subways
TF855-1127	Electric railways
TF1300-1620	High speed ground transportation
TG1-470	Bridge engineering

## OUTLINE

TH1-9745	Building construction
TH845-895	Architectural engineering. Structural engineering of buildings
TH900-915	Construction equipment in building
TH1000-1725	Systems of building construction Including fireproof construction, concrete construction
TH2025-3000	Details in building design and construction Including walls, roofs
TH3301-3411	Maintenance and repair
TH4021-4977	Buildings: Construction with reference to use Including public buildings, dwellings
TH5011-5701	Construction by phase of the work (Building trades)
TH6014-6081	Environmental engineering of buildings. Sanitary engineering of buildings
TH6101-6887	Plumbing and pipefitting
TH7005-7699	Heating and ventilation. Air conditioning
TH7700-7975	Illumination. Lighting
TH8001-8581	Decoration and decorative furnishings
TH9025-9745	Protection of buildings Including protection from dampness, fire, burglary
TJ1-1570	Mechanical engineering and machinery
TJ163.13-163.25	Power resources
TJ163.26-163.5	Energy conservation
TJ170-179	Mechanics applied to machinery. Dynamics
TJ181-210	Mechanical movements
TJ210.2-211.47	Mechanical devices and figures. Automata. Ingenious mechanisms. Robots (General)
TJ212-225	Control engineering systems. Automatic machinery (General)
TJ227-240	Machine design and drawing
TJ241-254.7	Machine construction (General)
TJ255-265	Heat engines
TJ266-267.5	Turbines. Turbomachines (General)
TJ268-740	Steam engineering
TJ603-695	Locomotives
TJ751-805	Miscellaneous motors and engines Including gas, gasoline, diesel engines
TJ807-830	Renewable energy sources
TJ836-927	Hydraulic machinery

## OUTLINE

	Mechanical engineering and machinery - Continued
TJ940-940.5	Vacuum technology
TJ950-1030	Pneumatic machinery
TJ1040-1119	Machinery exclusive of prime movers
TJ1125-1345	Machine shops and machine shop practice
TJ1350-1418	Hoisting and conveying machinery
TJ1425-1475	Lifting and pressing machinery
TJ1480-1496	Agricultural machinery. Farm machinery
TJ1501-1519	Sewing machines
TK1-9971	Electrical engineering. Electronics. Nuclear engineering
TK301-399	Electric meters
TK452-454.4	Electric apparatus and materials. Electric circuits. Electric networks
TK1001-1841	Production of electric energy or power. Powerplants. Central stations
TK2000-2891	Dynamolectric machinery and auxiliaries Including generators, motors, transformers
TK2896-2985	Production of electricity by direct energy conversion
TK3001-3521	Distribution or transmission of electric power
TK4001-4102	Applications of electric power
TK4125-4399	Electric lighting
TK4601-4661	Electric heating
TK5101-6720	Telecommunication Including telegraphy, telephone, radio, radar, television
TK7800-8360	Electronics
TK7885-7895	Computer engineering. Computer hardware
TK8300-8360	Photoelectronic devices (General)
TK9001-9401	Nuclear engineering. Atomic power
TK9900-9971	Electricity for amateurs. Amateur constructors' manuals
TL1-4050	Motor vehicles. Aeronautics. Astronautics
TL1-484	Motor vehicles. Cycles
TL500-777	Aeronautics. Aeronautical engineering
TL780-785.8	Rocket propulsion. Rockets
TL787-4050	Astronautics. Space travel

## OUTLINE

TN1-997	Mining engineering. Metallurgy
TN263-271	Mineral deposits. Metallic ore deposits. Prospecting
TN275-325	Practical mining operations. Safety measures
TN331-347	Mine transportation, haulage and hoisting. Mining machinery
TN400-580	Ore deposits and mining of particular metals
TN600-799	Metallurgy
TN799.5-948	Nonmetallic minerals
TN950-997	Building and ornamental stones
TP1-1185	Chemical technology
TP155-156	Chemical engineering
TP200-248	Chemicals: Manufacture, use, etc.
TP248.13-248.65	Biotechnology
TP250-261	Industrial electrochemistry
TP267.5-301	Explosives and pyrotechnics
TP315-360	Fuel
TP368-456	Food processing and manufacture
TP480-498	Low temperature engineering. Cryogenic engineering. Refrigeration
TP500-660	Fermentation industries. Beverages. Alcohol
TP670-699	Oils, fats, and waxes
TP690-692.5	Petroleum refining. Petroleum products
TP700-746	Illuminating industries (Nonelectric)
TP751-762	Gas industry
TP785-869	Clay industries. Ceramics. Glass
TP875-888	Cement industries
TP890-933	Textile bleaching, dyeing, printing, etc.
TP934-945	Paints, pigments, varnishes, etc.
TP1080-1185	Polymers and polymer manufacture
TR1-1050	Photography
TR250-265	Cameras
TR287-500	Photographic processing. Darkroom technique
TR504-508	Transparencies. Diapositives
TR510-545	Color photography
TR550-581	Studio and laboratory
TR590-620	Lighting
TR624-835	Applied photography Including artistic, commercial, medical photography, photocopying processes

## OUTLINE

TR845-899	Photography - Continued
TR925-1050	Cinematography. Motion pictures
	Photomechanical processes
TS1-2301	Manufactures
TS155-194	Production management. Operations management
TS195-198.8	Packaging
TS200-770	Metal manufactures. Metalworking
TS780-788	Stonework
TS800-937	Wood technology. Lumber
TS840-915	Wood products. Furniture
TS920-937	Chemical processing of wood
TS940-1047	Leather industries. Tanning
TS1060-1070	Furs
TS1080-1268	Paper manufacture and trade
TS1300-1865	Textile industries
TS1870-1935	Rubber industry
TS1950-1982	Animal products
TS2120-2159	Cereals and grain. Milling industry
TS2220-2283	Tobacco industry
TS2284-2288	Animal feeds and feed mills. Pet food industry
TT1-999	Handicrafts. Arts and crafts
TT161-170.7	Manual training. School shops
TT174-176	Articles for children
TT180-200	Woodworking. Furniture making. Upholstering
TT201-203	Lathework. Turning
TT205-267	Metalworking
TT300-382.8	Painting. Wood finishing
TT387-410	Soft home furnishings
TT490-695	Clothing manufacture. Dressmaking. Tailoring
TT697-927	Home arts. Homecrafts
	Including sewing, embroidery, decorative crafts
TT950-979	Hairdressing. Beauty culture. Barbers' work
TT980-999	Laundry work
TX1-1110	Home economics
TX301-339	The house
	Including arrangement, care, servants
TX341-641	Nutrition. Foods and food supply



## OUTLINE

	Home economics – Continued
TX642-840	Cooking
TX851-885	Dining-room service
TX901-946.5	Hospitality industry. Hotels, clubs, restaurants, etc. Food service
TX950-953	Taverns, barrooms, saloons
TX955-985	Building operation and housekeeping
TX1100-1105	Mobile home living
TX1110	Recreational vehicle living

## Technology (General)

- Periodicals and societies. By language of publication
  - 1 English
  - 2 French
  - 3 German
  - 4 Other languages (not A-Z)
- (5) Yearbooks
  - see T1+
- 6 Congresses
  - Industrial museums, etc. see T179+
  - International exhibitions see T391+
- 7 Collected works (nonserial)
- 8 Symbols and abbreviations
  - Dictionaries and encyclopedias
- 9 General works
- 10 Bilingual and polyglot
  - Communication of technical information
- 10.5 General works
  - Information centers
- 10.6 General works
  - Special countries
    - United States
      - 10.63.A1 General works
      - 10.63.A2-Z By region or state, A-Z
      - 10.65.A-Z Other countries, A-Z
  - 10.68 Risk communication
  - 10.7 Technical literature
  - 10.8 Abstracting and indexing
    - Language. Technical writing
      - Cf. QA42 Mathematical language. Mathematical authorship
- 11 General works
  - 11.3 Technical correspondence
  - 11.4 Technical editing
  - 11.5 Translating
  - 11.8 Technical illustration
    - Cf. Q222 Scientific illustration
    - Cf. T351+ Mechanical drawing
- 11.9 Technical archives
  - Industrial directories
- 11.95 General works
  - By region or country
    - United States
      - 12 General works
      - 12.3.A-Z By region or state, A-Z
        - Subarrange each country by Table T4a
      - 12.5.A-Z Other regions or countries, A-Z
        - Subarrange each country by Table T4a
- 13 General catalogs. Miscellaneous supplies
- 14 Philosophy. Theory. Classification. Methodology
  - Cf. CB478 Technology and civilization
- 14.5 Social aspects
  - Class here works that discuss the impact of technology on modern society
  - For works on the role of technology in the history and development of civilization see CB478
  - Cf. HM846+ Technology as a cause of social change
- History
  - Including the history of inventions
- 14.7 Periodicals, societies, serials, etc.

- History -- Continued
- 15 General works
- 16 Ancient
- 17 Medieval
- 18 Modern
- 19 19th-20th centuries
- 20 20th century  
Including "technological wonders of the modern world"
- Special regions or countries
- America. United States
- 21 General works  
Special divisions (United States)
- 21.5.A-Z By region, A-Z  
e.g.
- 21.5.N4 New England
- 22.A-.W States, A-W
- 22.5.A-Z Cities, A-Z
- Canada
- 23.A1 General works
- 23.A3-Z By region or province, A-Z  
*Under each province:*  
.x *General works*  
.x3A-.x3Z *Special cities, A-Z*
- 24 Latin America. West Indies (Table T4)
- 25 South America (Table T4)
- 26 Europe (Table T4)
- 27 Asia (Table T4)
- 27.3 Arab countries (Table T4)
- 28 Africa (Table T4)
- Australia
- 29.A1 General works
- 29.A3-Z By region or state, A-Z  
*Under each state:*  
.x *General works*  
.x3A-.x3Z *Special cities, A-Z*
- 29.5 New Zealand
- 30 Pacific Islands (Table T4)
- 31 Arctic regions
- (32) Primitive peoples  
see GN429+
- 33 Lost arts
- 35 Historical atlases of progress, invention, etc.
- 36 Women in technology
- 37 Industrial archaeology  
For local areas see T21+
- Biography  
Including inventors
- 39 Collective
- 40.A-Z Individual, A-Z  
Class preferably with special subject in classes TA-TT
- General works
- 44 Before 19th century
- 45 19th century and later
- 47 Elementary and popular works. Home educators
- 48 Juvenile works
- 49 Pocketbooks. Receipts. Formulas

- General works  
 Pocketbooks. Receipts. Formulas -- Continued  
 Early to 1800 see T44
- 49.5 General special  
 Including international cooperation
- 50 Addresses, essays, lectures see T185  
 Technical measurement  
 Cf. TA329+ Engineering mathematics  
 Cf. TS172 Tolerances
- 50.5 Metric system in industry  
 Class metric system in special industries with the industry  
 Cf. QC90.8+ Metric system (General)
- 51 Tables  
 Cf. TA151 Engineering (General)  
 Cf. TA635 Structural engineering (General)  
 Cf. TH151 Building (General)  
 Cf. TH434+ Estimates, quantities and cost (Building)
- (54) Dangerous occupations. Industrial accidents  
 see HD7262+
- Industrial safety. Industrial accident prevention  
 Cf. TA169.7 System safety  
 Cf. TS175 Safety of consumer products
- 55.A1 Periodicals, societies, congresses, etc.
- 55.A2-Z General works
- 55.2 Study and teaching
- 55.25 Research
- 55.3.A-Z Special topics, A-Z  
 Including special measures and appliances
- 55.3.A87 Authorship of safety manuals
- 55.3.A93 Awards programs
- 55.3.B43 Behavior modification
- 55.3.B56 Biorhythms and industrial accidents
- 55.3.C6 Color as a safety measure
- 55.3.E44 Electronic alarm systems
- 55.3.E96 Explosion prevention and protection
- 55.3.F35 Falls (Accidents) prevention and protection
- 55.3.G3 Gas masks. Respirators
- 55.3.H3 Hazardous substances  
 Cf. HE5623+ Transportation by country  
 Cf. TD1020+ Waste disposal
- 55.3.H45 Heights. High altitudes
- 55.3.L5 Lifting and carrying
- 55.3.M35 Manipulators
- 55.3.M37 Marking
- 55.3.P67 Posters
- 55.3.P75 Protective clothing  
 Radiation environment procedures and equipment see TK9151.4+
- 55.3.S23 Safety helmets
- 55.3.S72 Statistical methods  
 Working at heights see T55.3.H45

## Industrial engineering

Including management engineering and management science

Class here works on the solving of management problems concerned with design, improvement, and installation of complex industrial systems of men, materials, and equipment; employing the methods of operations research and engineering analysis and design, with stress on optimum use of resources. For applications in special fields, see the field

For works on the organization and operation of industrial institutions and business enterprises see HD28+

For wage and salary administration see HD4909+

For labor relations see HD6958.5+

For industrial psychology see HF5548.7+

For personnel management see HF5549+

For industrial safety see T55+

For engineering economy see TA177.4+

For production management see TS155+

- 55.4 Periodicals. Societies. Collections
- 55.45 Congresses
- 55.5 Dictionaries and encyclopedias
- 55.52 Symbols and abbreviations
- 55.54 Directories
- 55.6 History
- Special countries
- United States
- 55.7 General works
- 55.72.A-.W States, A-W
- 55.74.A-Z Other American countries, A-Z
- 55.75.A-Z Europe. By country, A-Z
- 55.76.A-Z Africa. By country, A-Z
- 55.77.A-Z Asia. By country, A-Z
- 55.775 Australia
- 55.778 New Zealand
- Biography
- 55.8 Collective
- 55.85.A-Z Individual, A-Z
- General works
- 55.9 Early to 1930
- 56 Treatises
- 56.23 Pocketbooks, tables, etc.
- 56.24 General special
- 56.25 Addresses, essays, lectures
- 56.3 Industrial engineering as a profession. Industrial engineers. Management consultants
- Study and teaching
- 56.4 General works
- 56.42 Research
- 56.8 Project management
- Applied mathematics. Quantitative methods
- 57 General works
- 57.2 Problems, exercises, etc.
- Probability theory
- 57.3 General works
- Stochastic processes
- Cf. TS160+ Inventory control
- 57.32 General works
- 57.33 Renewal theory

- Industrial engineering
- Applied mathematics. Quantitative methods -- Continued
  - Statistical methods
    - Cf. HA154+ Statistical data
    - Cf. TS156+ Quality control
    - Cf. TS173 Reliability
    - Cf. TS178.5 Line balancing
  - 57.35 General works
  - 57.36 Sampling theory
  - 57.37 Experimental design
  - 57.4 Schematic and graphic analysis
  - 57.5 Data processing
    - Cf. HF5548.125+ Business data processing
  - Operations research. Systems analysis
    - Cf. QA402+ Analytical methods connected with physical problems
  - 57.6.A1 Periodicals, societies, etc.
  - 57.6.A2-Z General works
    - Simulation
      - Cf. QA76.9.C65 Computer science
      - Cf. TA343 Engineering mathematics
    - 57.62 General works
    - 57.64 Monte Carlo method
    - 57.65 Stochastic processes
    - 57.67 Process mining
    - Programming
      - 57.7 General works
      - Linear programming
        - 57.74 General works
        - Simplex model
          - 57.76 General works
          - 57.77 Allocation method
          - 57.78 Transportation method
          - 57.79 Stochastic programming
      - Nonlinear programming
        - 57.8 General works
        - 57.815 Convex programming
        - 57.817 Nonconvex programming
        - 57.82 Quadratic programming
        - 57.825 Geometric programming
        - 57.83 Dynamic programming
        - 57.84 Heuristic programming
        - 57.85 Network systems theory
          - Including network analysis
          - Cf. TS157.5+ Scheduling
    - 57.9 Queuing theory. Waiting line problems
    - 57.92 Game theory
      - Cf. HD30.26 Management games
    - 57.95 Decision theory
      - Cf. HD30.23 Administrative decisions
    - 57.97 Search theory
  - 58.4 Managerial control systems
  - Information technology. Information systems (General)
    - 58.5 General works

- Industrial engineering
- Information technology. Information systems (General) -- Continued
- Management information systems
  - Cf. HD30.213 Industrial management
  - Cf. HF5549.5.C6+ Communication in personnel management
  - Cf. TS158.6 Automatic data collection systems (Production control)
- 58.6 General works
- 58.62 Decision support systems
  - Cf. HD30.213 Industrial management
- 58.64 Management of information systems
- Production capacity. Manufacturing capacity
  - Cf. HD69.C3 Economics
  - Cf. TS176+ Manufacturing engineering
- 58.7 General works
- 58.8 Productivity. Efficiency
- Standardization
  - Cf. TA368 Standards (Collections, indexes, etc.)
- 59.A1 Periodicals, societies, etc.
- 59.A2-Z General works
- 59.2.A-Z By region or country, A-Z
- 59.4 Mechanization
- 59.5 Automation
  - Cf. HD45.2 Economics
  - Cf. TA165 Engineering instruments
  - Cf. TJ212+ Automatic control
  - Cf. TJ1180+ Machine tools
  - Cf. TS156.8 Process control
- 59.6 Industry 4.0
- Human engineering in industry. Man-machine systems
- 59.7 General works
- 59.72 Fatigue aspects of man-machine systems
- 59.77 Working environment
  - Cf. TS187 Plant utilities
- Work measurement. Methods engineering
  - Including time and motion study, work study, etc.
- 60.A2 Periodicals
- 60.A3-Z General works
- Work measurement
- 60.2 General works
- Production standards
- 60.3 General works
- 60.35 Labor productivity
  - Cf. HD57 Economics
- Time study
- 60.4 General works
- 60.42 Standard times
- 60.45 Allowances
- 60.47 Setup time
- Predetermined motion time systems
- 60.5 General works
- 60.52 Methods time measurement
- 60.55 Work sampling
- Methods engineering
- 60.6 General works
- 60.7 Motion study
- 60.74 Machine assignments

- Industrial engineering
  - Work measurement. Methods engineering -- Continued
- 60.8 Work design. Job design
- Technical education. Technical schools
  - Cf. LB1594+ Industrial training in the elementary school
  - Cf. LC1081+ Industrial education (Theory)
  - Cf. LC2780.5 Industrial education of blacks and African Americans
  - Cf. T175+ Industrial research
  - Cf. TT161+ Manual training
- 61 Periodicals, societies, etc.
- 62 Congresses
- 63 Dictionaries and encyclopedias
- 64 Directories
- 65 General works
- 65.3 General special
  - Including international cooperation
- 65.5.A-Z Special methods, A-Z
  - 65.5.B5 Blackboard drawing
  - 65.5.B54 Blended learning
  - 65.5.C3 Case method
  - 65.5.C65 Computer-assisted instruction
  - 65.5.M6 Motion pictures
  - 65.5.P7 Programmed instruction
  - 65.5.S47 Service learning
  - 65.5.S9 Synthetic training devices
  - 65.5.T4 Television
- History
  - 66 General works
  - 67 Ancient
  - 68 Medieval
  - 69 Modern
- Special countries
  - For special schools see T171+
  - 71 America
    - 72 North America
      - United States
        - 73 General works
          - 73.1 New England. North Atlantic States
          - 73.3 Southern States
          - 73.5 Central States
          - 73.7 Western States
        - 74.A-Z Special states, A-Z
        - 75.A-Z Special cities, A-Z
      - Canada
        - 76 General works
        - 77.A-Z Local, A-Z
      - Mexico
        - 78 General works
        - 79.A-Z Local, A-Z
      - Central America
        - 80 General works
        - 81.A-Z Special countries, A-Z
      - West Indies
        - 82 General works
        - 83.A-Z Special countries or islands, A-Z
      - South America



## Technical education. Technical schools

## Special countries

## South America -- Continued

- 84 General works  
Argentina
- 86 General works  
87.A-Z Local, A-Z
- Bolivia
- 88 General works  
89.A-Z Local, A-Z
- Brazil
- 91 General works  
92.A-Z Local, A-Z
- Chile
- 93 General works  
94.A-Z Local, A-Z
- Colombia
- 95 General works  
96.A-Z Local, A-Z
- 97 Ecuador
- Guiana
- 98 Guyana
- 99 Suriname
- 100 French
- 101 Paraguay
- 102 Peru
- 103 Uruguay
- 104 Venezuela
- Europe
- 105 General works
- Great Britain. England
- 107 General works
- 107.5 Colonies
- 108.A-Z English counties or cities, A-Z
- Ireland
- 109 General works  
110.A-Z Local, A-Z
- Scotland
- 111 General works  
112.A-Z Local, A-Z
- Wales
- 113 General works  
114.A-Z Local, A-Z
- Austria
- 115 General works  
116.A-Z Local, A-Z  
(116.H8) Hungary  
see T128.5
- Belgium
- 117 General works  
118.A-Z Local, A-Z
- Denmark
- 119 General works  
120.A-Z Local, A-Z
- France
- 121 General works

- Technical education. Technical schools
  - Special countries
    - Europe
      - France -- Continued
        - 122.A-Z Local, A-Z
      - Germany
        - Including West Germany
          - 123 General works
          - 124.A-Z Local, A-Z
        - East Germany
          - 124.5 General works
          - (124.6.A-Z) Local
            - see T124.A-Z
      - Greece
        - 125 General works
        - 126.A-Z Local, A-Z
      - Holland
        - 127 General works
        - 128.A-Z Local, A-Z
      - Hungary
        - 128.5
      - Italy
        - 129 General works
        - 130.A-Z Local, A-Z
      - Norway
        - 131 General works
        - 132.A-Z Local, A-Z
      - Portugal
        - 133 General works
        - 134.A-Z Local, A-Z
      - Russia
        - 135 General works
        - 136.A-Z Local, A-Z
      - Spain
        - 137 General works
        - 138.A-Z Local, A-Z
      - Sweden
        - 139 General works
        - 140.A-Z Local, A-Z
      - Switzerland
        - 141 General works
        - 142.A-Z Local, A-Z
      - Turkey
        - 143 General works
        - 144.A-Z Local, A-Z
      - Balkan States, A-Z
        - 146.A-Z
      - Other countries, A-Z
        - 147.A-Z
    - Asia
      - 149 General works
      - China
        - 151 General works
        - 152.A-Z Local, A-Z
      - India
        - 153 General works
        - 154.A-Z Local, A-Z
      - Japan
        - 155 General works

- Technical education. Technical schools
- Special countries
- Asia
- Japan -- Continued
- 156.A-Z Local, A-Z
- Iran. Persia
- 157 General works
- 158.A-Z Local, A-Z
- (159-160) Asia Minor
- see T143+
- (161-162) Siberia
- see T136
- 163.A-Z Other Asian countries, A-Z
- 164 Arab countries
- Africa
- 165 General works
- 166.A-Z Special countries, A-Z
- Indian Ocean islands
- 166.5 General works
- 166.6.A-Z Special divisions, A-Z
- Australia
- 167 General works
- 168.A-Z Local, A-Z
- 168.5 New Zealand
- Pacific islands
- 169 General works
- 170.A-Z Special divisions, A-Z
- Special schools
- Including technical departments of universities
- Cf. TT167.A+ Manual training schools
- American schools
- 171.A-Z General. By name, A-Z
- Under each school:*
- .xA1-.xA4 *Official serials*
- .xA5-.xA7 *Official monographs*
- .xA8-.xZ *Nonofficial publications. By author, A-Z*
- 172.A-Z Correspondence schools. By name, A-Z
- 173.A-Z Other schools. By city where located, A-Z
- Expand Cutter number for city to provide alphabetical arrangement of schools, e.g.
- 173.A12-.A15 Aachen, Germany. Rheinisch-Westfälische Technische Hochschule Aachen
- 173.C516 Ch'eng-tu, China. Dian zi ke ji da xue
- 173.L8-.L88 London, England
- 173.L832 Borough Polytechnic
- 173.L88 City of London Polytechnic
- Technological change
- For technological innovations in economic history see HC79.T4
- For economic aspects of technological innovations see HD45
- 173.2 General works
- Special countries
- 173.4 United States
- 173.5.A-Z Other countries, A-Z
- Inventions see T212
- 173.8 Technological innovations
- 174 Technological forecasting
- 174.2 Technology indicators

- Technological change -- Continued
- 174.3 Technology transfer  
Cf. HF1429 Foreign licensing agreements
- 174.5 Technology assessment
- 174.7 Nanotechnology
- Industrial research. Research and development  
Cf. T56.42 Industrial engineering  
Cf. TA160+ Engineering  
Cf. TS171+ Product design
- 175 General works
- 175.5 Management. Organization
- 175.7 Research parks
- Special countries
- 176 United States
- 177.A-Z Others, A-Z
- 178.A-Z Special research laboratories. By name, A-Z
- Museums. Exhibitions of local societies
- 179 General works  
Special museums  
United States
- 180.A1 General works
- 180.A2-Z By city and museum, A-Z
- 183.A-Z Other regions or countries, A-Z  
*Under each country:*  
.x *General works*  
.x2A-.x2Z *By city and museum, A-Z*
- 185 Addresses, essays, lectures
- Patents  
For patents pertaining to particular subjects, see the subject, e.g. TK7850 Patents in electronics  
Cf. HD69.B7 Brand name products
- 201 Periodicals, societies, congresses, etc.  
International patent conferences
- 203 General works. By date of conference
- 205 History and discussions of international agreements ("conventions") resulting from the conferences
- 207 Collected works (nonserial)  
Addresses, essays, lectures see T333
- 209 Dictionaries and encyclopedias
- 210 Patent literature
- 210.2 Translating. Translating services
- 210.5 Directories
- 211 Theory of patents
- 212 Inventors and inventions. How to invent  
Cf. T14.7+ History of inventions  
Cf. T173.8 Technology innovations
- History of patents  
By region or country  
For patent law, see class K
- America
- 221 General works (Table T5)  
North America
- 222 General works (Table T5)  
United States
- 223 General works (Table T5)
- 223.5 Confederate States of America (Table T5)

## Patents

## History of patents

## By region or country

## America

## North America

## United States -- Continued

224.A-.W

## States, A-W

Subarrange each by Table T6

225.A-Z

## Cities, A-Z

Subarrange each by Table T6

## Canada

226

## General works (Table T5)

227.A-Z

## Provinces, A-Z

Subarrange each by Table T6

227.5

## Latin America (Table T5)

228

## Mexico (Table T5)

## Central America

230

## General works (Table T5)

231.A-Z

## Special countries, A-Z

Subarrange each by Table T6

## West Indies

232

## General works (Table T5)

233.A-Z

## Special islands, A-Z

Subarrange each by Table T6

## South America

234

## General works (Table T5)

236

## Argentina (Table T5)

238

## Bolivia (Table T5)

241

## Brazil (Table T5)

243

## Chile (Table T5)

245

## Colombia (Table T5)

247

## Ecuador (Table T5)

248

## Guyana (Table T5)

249

## Suriname (Table T5)

250

## French Guiana (Table T5)

251

## Paraguay (Table T5)

252

## Peru (Table T5)

253

## Uruguay (Table T5)

254

## Venezuela (Table T5)

## Europe

255

## General works (Table T5)

## Great Britain. England

257

## General works (Table T5)

259

## Ireland (Table T5)

261

## Scotland (Table T5)

263

## Wales (Table T5)

264.A-Z

## Cities or other special, A-Z

Subarrange each by Table T6

265

## Austria (Table T5)

265.3

## Czechoslovakia (Table T5)

265.5

## Hungary (Table T5)

## Belgium

267

## General works (Table T5)

268.A-Z

## Local or special, A-Z

Subarrange each by Table T6

269

## Denmark (Table T5)

## Patents

## History of patents

## By region or country

## Europe -- Continued

- 271 France (Table T5)
- 273 Germany (Table T5)
- 275 Greece (Table T5)
- 277 Netherlands (Table T5)
- 279 Italy (Table T5)
- 280.5 Malta (Table T5)
- 281 Norway (Table T5)
- 283 Portugal, Azores, etc. (Table T5)
- Russia in Europe
  - 285 General works (Table T5)
  - 286.A-Z Local or special, A-Z
    - Subarrange each by Table T6
- 287 Spain (Table T5)
- 288.5 Scandinavia (Table T5)
- 289 Sweden (Table T5)
- 291 Switzerland (Table T5)
- 295.A-Z Other regions and countries, A-Z
  - 295.A2 Balkan Peninsula (Table T6)
  - 295.A38 Albania (Table T6)
  - 295.A48 Andorra (Table T6)
  - 295.B3 Baltic States (Table T6)
  - 295.B43 Belarus (Table T6)
  - 295.B45 Benelux countries (Table T6)
  - 295.B9 Bulgaria (Table T6)
  - 295.E75 Estonia (Table T6)
  - 295.F5 Finland (Table T6)
  - 295.I43 Iceland (Table T6)
  - 295.L285 Lapland (Table T6)
  - 295.L37 Latvia (Table T6)
  - 295.L78 Lithuania (Table T6)
  - 295.L9 Luxemburg (Table T6)
  - 295.P7 Poland (Table T6)
  - 295.P75 Pomerania (Poland and Germany) (Table T6)
  - 295.R6 Romania (Table T6)
  - 295.S55 Slovenia (Table T6)
  - 295.U95 Ukraine (Table T6)
  - 295.Y8 Yugoslavia (Table T6)

## Asia

- 299 General works (Table T5)
- 301 China (Table T5)
  - For Hong Kong see T313.H85
- 302.5 Taiwan (Table T5)
- South Asia
  - 302.9 General works (Table T5)
  - India
    - 303 General works
    - 304.A-Z Local or special, A-Z
      - Subarrange each by Table T6
    - 304.5 Pakistan (Table T5)
    - 304.65 Bangladesh (Table T5)
    - 304.7 Sri Lanka. Ceylon (Table T5)
    - 305 Japan (Table T5)

## Patents

## History of patents

## By region or country

## Asia -- Continued

- 306.5 Korea (Table T5)
  - Including South Korea
- 306.7 North Korea (Table T5)
- 307 Iran. Persia (Table T5)
- 309 Russia in Asia. Siberia (Table T5)
- 311 Turkey. Asia Minor (Table T5)
- 313.A-Z Other divisions of Asia, A-Z
  - 313.A3 Afghanistan (Table T6)
  - 313.B54 Borneo (Table T6)
  - 313.B7 Brunei (Table T6)
  - 313.B8 Burma. Myanmar (Table T6)
  - 313.C16 Cambodia (Table T6)
  - 313.C9 Cyprus (Table T6)
  - 313.G39 Gaza Strip (Table T6)
  - 313.H85 Hong Kong (Table T6)
  - 313.I55 Indonesia (Table T6)
  - 313.I7 Iraq (Table T6)
  - 313.I75 Israel (Table T6)
  - 313.J6 Jordan (Table T6)
  - 313.K85 Kuwait (Table T6)
  - 313.L28 Laos (Table T6)
  - 313.L4 Lebanon (Table T6)
  - 313.M2 Macau (Table T6)
  - 313.M318 Malaya (Table T6)
  - 313.M32 Malaysia (Table T6)
  - Myanmar see T313.B8
  - 313.N4 Nepal (Table T6)
  - 313.P6 Philippines (Table T6)
  - 313.Q36 Qatar (Table T6)
  - 313.S33 Saudi Arabia (Table T6)
  - 313.S53 Singapore (Table T6)
  - 313.S6 Southeast Asia (Table T6)
  - 313.S94 Syria (Table T6)
  - 313.T48 Thailand (Table T6)
  - 313.U54 United Arab Emirates (Table T6)
  - 313.V5 Vietnam (Table T6)
  - 313.W48 West Bank (Table T6)
  - 313.Y45 Yemen (People's Democratic Republic) (Table T6)
- 313.5 Middle East (Table T5)
- 314 Arab countries (Table T5)
- 314.5 Islamic countries (Table T5)
- Africa
  - 315 General works (Table T5)
  - 317 Egypt (Table T5)
  - 319.A-Z Other divisions of Africa, A-Z
    - 319.A4 Algeria (Table T6)
    - 319.A5 Angola (Table T6)
    - 319.B57 Botswana (Table T6)
    - 319.B85 Burundi (Table T6)
    - 319.C17 Cameroon (Table T6)
    - 319.C42 Central Africa (Table T6)
    - 319.C43 Central African Republic (Table T6)

## Patents

## History of patents

## By region or country

## Africa

## Other divisions of Africa, A-Z -- Continued

- 319.C75 Congo (Brazzaville) (Table T6)
- Congo (Democratic Republic) see T319.Z3
- Côte d'Ivoire see T319.I9
- 319.D3 Dahomey (Table T6)
- 319.D55 Djibouti (Table T6)
- 319.E18 East Africa (Table T6)
- 319.E19 Eastern Africa (Table T6)
- 319.E77 Eswatini (Table T6)
- 319.E8 Ethiopia (Table T6)
- 319.F82 French-speaking Equatorial Africa (Table T6)
- 319.F83 French-speaking West Africa (Table T6)
- 319.G23 Gabon (Table T6)
- 319.G45 Ghana (Table T6)
- 319.G92 Guinea (Table T6)
- 319.G94 Guinea-Bissau (Table T6)
- 319.I9 Ivory Coast. Côte d'Ivoire (Table T6)
- 319.K4 Kenya (Table T6)
- 319.L45 Lesotho (Table T6)
- 319.L49 Liberia (Table T6)
- 319.L74 Libya (Table T6)
- 319.M28 Madagascar (Table T6)
- 319.M3 Malawi (Table T6)
- 319.M34 Mauritania (Table T6)
- 319.M6 Morocco (Table T6)
- 319.M85 Mozambique (Table T6)
- Namibia see T319.S68
- 319.N53 Niger (Table T6)
- 319.N54 Nigeria (Table T6)
- 319.R45 Rhodesia, Southern. Zimbabwe (Table T6)
- 319.R9 Rwanda (Table T6)
- 319.S18 Sahel (Table T6)
- 319.S38 Senegal (Table T6)
- 319.S5 Sierra Leone (Table T6)
- 319.S59 Somalia (Table T6)
- 319.S6 South Africa (Table T6)
- 319.S64 Southern Africa (Table T6)
- 319.S68 Southwest Africa. Namibia (Table T6)
- 319.S73 Sub-Saharan Africa (Table T6)
- 319.S74 Sudan (Table T6)
- (319.S87) Swaziland (Table T6)
- see T319.E77
- 319.T35 Tanzania (Table T6)
- 319.T64 Togo (Table T6)
- 319.T8 Tunisia (Table T6)
- 319.U4 Uganda (Table T6)
- 319.U66 Upper Volta (Table T6)
- 319.W48 West Africa (Table T6)
- 319.Z3 Zaire. Congo (Democratic Republic) (Table T6)
- 319.Z34 Zambia (Table T6)
- Zimbabwe see T319.R45

## Indian Ocean islands



## Patents

## History of patents

## By region or country

## Indian Ocean islands -- Continued

320  
320.5.A-Z  
320.5.M38  
320.5.R48

General works (Table T5)

Special islands, A-Z

Mauritius (Table T6)

Réunion (Table T6)

## Australasia

320.7

General works (Table T5)

## Australia

321  
322.A-Z

General works (Table T5)

Local or special, A-Z

Subarrange each by Table T6

322.5

New Zealand (Table T5)

322.7

Papua New Guinea (Table T5)

## Pacific islands

323.A1  
323.A5-Z

General works (Table T6)

Special islands, A-Z

Subarrange each by Table T6

323.2

Arctic regions (Table T5)

323.3

Antarctica (Table T5)

323.7

Developing countries (Table T5)

324

Designs and models of patents (General)

For special regions or countries see T221+

325

Trademarks

For special regions or countries, including trademarks for special products or industries of those regions or countries see T221+

333

Addresses, essays, lectures

339

Inventors' manuals. Publications of patent solicitors

Including works on how to protect, patent, and merchandise inventions

342

Industrial design coordination

Mechanical drawing. Engineering graphics

Cf. QA501+ Descriptive geometry

Cf. T11.8 Technical illustration

Cf. TA337+ Schematic and graphic methods in engineering

Cf. TJ227+ Machine drawing

351

Periodicals, societies, etc.

351.3

Dictionaries and encyclopedias

351.5

Study and teaching

352

Drawing-room management and practice

Cf. T375+ Drawing-room equipment and supplies

353

General works

353.5

Juvenile works

354

Problems, exercises, etc.

355

Structural drawing

Cf. NA2685+ Architecture

357

General special

Including tinting, standards

359

Freehand drawing for technical purposes

361

Technical blackboard drawing

Projection

362

General works

363

Orthographic projection

Including axonometric and isometric projection

- Mechanical drawing. Engineering graphics
  - Projection -- Continued
    - 365 Oblique projection
      - Including cavalier and cabinet projection
    - 369 Perspective projection
      - Cf. NC748+ Drawing, design, illustration (Fine arts)
    - 371 Lettering
      - Cf. NK3600+ Alphabets, calligraphy and initials
      - Cf. NK8705+ Stonework
      - Cf. TT360.A1+ Signs
    - Drawing instruments and materials
      - 375 General works
      - 377 Catalogs
      - 379 Working drawings and their use. Blueprint reading
        - Cf. TA175 Engineering drawings
        - Cf. TR915+ Reproduction of drawings
        - For works on using presentation graphics software packages see P93.52+
      - Computer-assisted drafting. Computer graphics
        - Class here works on computer graphics used for technical applications, or for unspecified purposes
        - For special applications, see the subject, e.g., TR267-TR267.5 Digital photography; P93.52-.53 Presentation graphics software packages; N7433.8-N7433.85 Computer art; N7433.9 Multimedia art
      - 385 General works
      - 386.A-Z Special programs, A-Z
        - 386.A97 AutoCAD
        - 386.A974 Autodesk Inventor
        - 386.C67 CorelDRAW
        - 386.F87 Fusion 360
        - 386.O64 OpenGL
        - 386.S55 SolidWorks
        - 386.W43 WebGL
        - 386.Z33 ZBrush
    - Exhibitions. Trade shows
      - Including the great national and international exhibitions
      - 391 Periodicals. Societies. Collections
      - 393 Documents
        - Cf. T395+ History
      - 394 Directories
      - History
        - 395 General works
        - 395.5.A-Z By region or country, A-Z
      - Organization, methods, classifications, etc.
        - Including display techniques
      - 396 General works
      - 396.5 Display technique. Pavilions
      - 397.A-Z Special. By city, A-Z
        - e.g.
        - 397.C5 Chicago. World's Columbian Exposition, 1893
      - Special exhibitions
        - 402 Aberdeen (Table T2)
        - 402.2 Accra (Table T2)
        - 402.6 Addis Ababa, 1995 (Table T2)
        - 403 Adelaide, 1897 (Table T2)
        - 405 Agra, 1867 (Table T2)
        - Agram see T992

## Exhibitions

## Special exhibitions -- Continued

407	Alexandria (Table T2)
410	Algiers (Table T2)
412	Alma-Ata (Table T2)
	Amsterdam
414	1859 (Table T2)
415	1869 (Table T2)
416	1883 (Table T2)
417	Antananarivo, Madagascar
	Arrange by date; subarrange each by Table T2
419	Antwerp, 1930 (Table T2)
420	Antwerp, 1984 (Table T2)
424	Athens (Table T2)
	Atlanta
426	1881 (Table T2)
427	1895 (Table T2)
428.7	Baghdad (Table T2)
429	Bahia, 1872 (Table T2)
430	Baltimore (Table T2)
433	Barcelona (Table T2)
436	Basel (Table T2)
439	Batavia (Table T2)
439.3	Belgrad (Table T2)
439.5	Bergen, 1898 (Table T2)
440	Berlin (Table T2)
450	Birmingham (Table T2)
452	Bogota (Table T2)
452.5	Bolzano (Table T2)
453	Bombay (Table T2)
456	Bordeaux (Aquitaine) (Table T2)
460	Boston, 1883 (Table T2)
	Brisbane
463	1875 (Table T2)
463.2	1988 (Table T2)
464	Brno
	Arrange by date; subarrange each by Table T2
	Brussels
465	Before 1910
	Arrange by date; subarrange each by Table T2
467	1910 (Table T2)
468	1935 (Table T2)
469	1958 (Table T2)
475	Bucharest (Table T2)
	Budapest
478	1885 (Table T2)
479	1896 (Table T2)
479.2	1925 (Table T2)
479.3	Later
	Arrange by date; subarrange each by Table T2
	Buenos Aires
481	1875 (Table T2)
482	1880 (Table T2)
483	1882 (Table T2)
484	1910 (Table T2)

## Exhibitions

## Special exhibitions

## Buenos Aires -- Continued

484.5

Later

Arrange by date; subarrange each by Table T2

485

Buffalo, 1901 (Table T2)

486

Cadiz (Table T2)

487

Cairo (Table T2)

488

Calcutta (Table T2)

489

Calicut (Table T2)

491

Canton (Table T2)

494

Capetown (Table T2)

495

Caracas (Table T2)

496

Caserta, 1864 (Table T2)

## Charleroi

496.7

1911 (Table T2)

496.8

Later

Arrange by date; subarrange each by Table T2

497

Charleston, 1901-1902 (Table T2)

## Chicago

499

1873 (Table T2)

499.5

1883 (Table T2)

500

1893 (Table T2)

501

1933-1934 (Table T2)

502

1992 (Table T2)

507.5

Chittagong (Table T2)

Christiania see T797

## Cincinnati

515

1870-1872 (Table T2)

516

1888 (Table T2)

517

1935 (Table T2)

519

Ciudad Trujillo (Table T2)

## Cleveland

520

1909 (Table T2)

521

Later

Arrange by date; subarrange each by Table T2

523

Colombo, Ceylon (Table T2)

525

Constantinople (Table T2)

535

Copenhagen (Table T2)

536

Cordoba, 1871 (Table T2)

537

Cork, 1852 (Table T2)

540

Curitiba, 1875 (Table T2)

541

## Dairen

Arrange by date; subarrange each by Table T2

543

Dallas, 1936-1937 (Table T2)

544

Delhi, India (Table T2)

545

Denver, 1882-1883 (Table T2)

## Detroit

550

1892 (Table T2)

551

Later

Arrange by date; subarrange each by Table T2

552

Djakarta (Table T2)

553

Dnepropetrovsk, 1910 (Table T2)

555

Dresden (Table T2)

## Dublin

560

1853 (Table T2)

## Exhibitions

## Special exhibitions

- Dublin -- Continued  
 561 1865 (Table T2)  
 563 Dusseldorf (Table T2)  
 Dunedin  
 565 1865 (Table T2)  
 566 1925-1926 (Table T2)  
 570 Edinburgh (Table T2)  
 575 Enugu, 1997 (Table T2)  
 590 Florence (Table T2)  
 599 Fukuoka (Table T2)  
 606 Geneva (Table T2)  
 610 Genoa, 1892 (Table T2)  
 615 Ghent  
 Arrange by date; subarrange each by Table T2  
 Glasgow  
 618 1888 (Table T2)  
 618.3 1938 (Table T2)  
 619 Graz (Table T2)  
 619.5 Guadalajara, 1880 (Table T2)  
 620 Guatemala, 1878 (Table T2)  
 620.5 Guimarães, 1884 (Table T2)  
 621 Haarlem, 1861 (Table T2)  
 624 Hague (Table T2)  
 627 Hakodate (Table T2)  
 631 Hamburg (Table T2)  
 632 Hangchow  
 Arrange by date; subarrange each by Table T2  
 632.5 Hannover, 2000 (Table T2)  
 Hanoi  
 633 1902 (Table T2)  
 633.5 Since 1902  
 Arrange by date; subarrange each by Table T2  
 635 Havana (Table T2)  
 640 Hong Kong (Table T2)  
 645 Indianapolis (Table T2)  
 647 Izmir (Table T2)  
 648 Jamestown, 1907 (Table T2)  
 650 Johannesburg (Table T2)  
 650.8 Kanazawa, Japan (Ishikawa Prefecture) (Table T2)  
 651 Karachi  
 Arrange by date; subarrange each by Table T2  
 652 Khartoum  
 Arrange by date; subarrange each by Table T2  
 653 Kiev (Kyïv) (Table T2)  
 654 Kimberley, 1892 (Table T2)  
 655 Kingston, Jamaica, 1891 (Table T2)  
 658 Kishinev (Table T2)  
 670 Klagenfurt, 1838 (Table T2)  
 670.2 Knoxville, 1982 (Table T2)  
 670.4 Kobe-shi (Japan) (Table T2)  
 670.5 Kōchi, Japan  
 Arrange by date; subarrange each by Table T2  
 670.7 Kure, Japan (Table T2)  
 Kyïv see T653

## Exhibitions

## Special exhibitions -- Continued

670.8	Kyoto, Japan (Table T2)
671.3	Lagos (Table T2)
671.5	La Paz, Bolivia (Table T2)
671.8	Lausanne (Table T2)
673	Leeds (Table T2)
678	Leipzig (Table T2)
	Liège
679	1905 (Table T2)
679.3	1930 (Table T2)
679.5	Later
	Arrange by date; subarrange each by Table T2
680	Lima (Table T2)
681	Lisbon (Table T2)
684	Liverpool, 1886 (Table T2)
687	Loanda (Table T2)
	London
690	1851 (Table T2)
691	1862 (Table T2)
695	1871-1874 (Table T2)
695.5	1884 (Table T2)
695.6	1885 (Table T2)
696	1886 (Table T2)
	1887
697	General works (Table T2)
697.3	East London (Table T2)
698	1906 (Table T2)
699	1908 (Table T2)
700	1910 (Table T2)
700.2	1912 (Table T2)
700.5	1917 (Table T2)
700.8	1928 (Table T2)
701	1929 (Table T2)
702	Later
	Arrange by date; subarrange each by Table T2
703	Long Beach, Calif. (Table T2)
704	Los Angeles, Calif. (Table T2)
705	Louisville, Ky. (Table T2)
	Arrange by date; subarrange each by Table T2
	Lyons
710	1894 (Table T2)
711	Later
	Arrange by date; subarrange each by Table T2
712	Madras
	Arrange by date; subarrange each by Table T2
	Madrid
714	Before 1891
	Arrange by date; subarrange each by Table T2
715	1891 (Table T2)
716	Later
	Arrange by date; subarrange each by Table T2
718	Malmö, 1896 (Table T2)
719	Manchester, 1887 (Table T2)
723	Manila (Table T2)
725	Mar del Plata (Table T2)

## Exhibitions

## Special exhibitions -- Continued

727	Marseilles (Table T2)
729	Medelfin, Colombia (Table T2)
	Melbourne
730	1861 (Table T2)
730.1	1866-1967 (Table T2)
730.6	1875 (Table T2)
731	1880-1881 (Table T2)
732	1888-1889 (Table T2)
739	Memphis (Table T2)
742	Mexico (City) (Table T2)
744	Milan (Table T2)
745	Milwaukee (Table T2)
748	Minneapolis (Table T2)
750	Minsk (Table T2)
750.4	Mogadishu, Somalia
	Arrange by date; subarrange each by Table T2
751	Moji (Table T2)
752	Montreal (Table T2)
757	Moscow (Table T2)
760	Mukden (Table T2)
762	Munich (Table T2)
766	Nagasaki (Table T2)
766.5	Nagoya-shi (Japan) (Table T2)
768	Nancy (Table T2)
770	Nanking (Table T2)
773	Naples (Table T2)
774	Naruto-shi (Japan) (Table T2)
775	Nashville, 1897 (Table T2)
775.6	Neuchâtel, 2002 (Table T2)
	New Orleans
776	1854 (Table T2)
777	1884-1885 (Table T2)
778	1885-1886 (Table T2)
779	Later
	Arrange by date; subarrange each by Table T2
	New York
783	1853-1854 (Table T2)
784	1855-1938
	Arrange by date; subarrange each by Table T2
785	1939-1940 (Table T2)
786	Later
	Arrange by date; subarrange each by Table T2
787	Niagara Falls, 1926 (Table T2)
788	Nicosia (Cyprus)
	Arrange by date; subarrange each by Table T2
789	Novgorod (Table T2)
793	Odessa (Table T2)
796	Omaha, 1898 (Table T2)
796.5	Oporto (Table T2)
796.7	Osaka
	Arrange by date; subarrange each by Table T2
797	Oslo (Christiania) (Table T2)
797.5	Otaru, Japan (Table T2)
798	Panama (Table T2)

## Exhibitions

## Special exhibitions

## Panama -- Continued

Panama-Pacific exposition see TC781+

## Paris

- 799 Before 1855  
 Arrange by date; subarrange each by Table T2
- 800 1855 (Table T2)
- 801 1867 (Table T2)
- 801.5 1875 (Table T2)
- 802 1878 (Table T2)
- 803 1889 (Table T2)
- 804 1900 (Table T2)
- 805 Later  
 Arrange by date; subarrange each by Table T2
- 820 Peking (Table T2)
- Philadelphia
- 825 1876 (Table T2)
- 826 1877-1879 (Table T2)
- 826.3 1926 (Table T2)
- 828 Pisa, 1868 (Table T2)
- 830 Pittsburgh (Table T2)
- 830.5 Plovdiv (Table T2)
- 830.7 Poona (Table T2)
- 831 Port-au-Prince, 1949-1950 (Table T2)
- 831.3 Port Louis, 1996 (Table T2)
- 832 Portland, Maine (Table T2)
- Portland, Oregon
- 834 1905 (Table T2)
- 834.2 Later  
 Arrange by date; subarrange each by Table T2
- 835 Porto, 1865 (Table T2)
- 836 Prague (Table T2)
- 836.8 Pushkin (Russia) (Table T2)
- 837 Quito (Table T2)
- Rio de Janeiro
- 839 Before 1875  
 Arrange by date; subarrange each by Table T2
- 840 1875 (Table T2)
- 841 1876-1907  
 Arrange by date; subarrange each by Table T2
- 843 1908 (Table T2)
- 844 Later  
 Arrange by date; subarrange each by Table T2
- 845 Rio Grande do Sul (Table T2)
- 850 Rome (Table T2)
- 860 St. Louis, 1904 (Table T2)
- 865 St. Paul (Table T2)
- 868 St. Petersburg (Table T2)
- 871 San Antonio, Texas (Table T2)
- San Diego
- 872 1915 (Table T2)
- 872.3 Later  
 Arrange by date; subarrange each by Table T2
- San Francisco
- 874 1894 (Table T2)



## Exhibitions

## Special exhibitions

- 875 San Francisco -- Continued  
1895-1914  
Arrange by date; subarrange each by Table T2  
1915. Panama-Pacific exposition see TC781+
- 876 Later  
Arrange by date; subarrange each by Table T2
- 877 San José, 1886 (Table T2)
- 878 San Juan, Puerto Rico (Table T2)  
Santiago de Chile  
1872 (Table T2)
- 879 1873 (Table T2)
- 879.1 1875 (Table T2)
- 880 1942-1943 (Table T2)
- 881 1989
- 882 Sarajevo (Table T2)
- 884 Schwerin, 1861 (Table T2)
- 888 Seattle  
1909 (Table T2)
- 890 Later  
Arrange by date; subarrange each by Table T2
- 890.2 Seoul  
1929 (Table T2)
- 891.5 1982 (Table T2)
- 892 Seville  
1929-1930 (Table T2)
- 894 1992 (Table T2)
- 894.1 Shan-t'ou chuan ch'u, China (Table T2)
- 895 Shanghai (Table T2)
- 896 Shizuoka (Japan)  
Arrange by date; subarrange each by Table T2
- 897 Singapore (Table T2)
- 898 Sofia (Table T2)
- 902 Spokane (Table T2)
- 903 Springfield, Mass. (Table T2)
- 910 Stockholm, 1897 (Table T2)
- 915 Strassburg (Table T2)
- 917 Stuttgart (Table T2)
- 920 Sydney, 1879-1880 (Table T2)
- 923 Taejŏn-si (Korea), 1993 (Table T2)
- 925 T'ai-pei (City) (Table T2)
- 926 Takayama-shi (Japan)  
Arrange by date; subarrange each by Table T2
- 930 Tananarivo (Table T2)
- 933 Tbilisi, 1850 (Table T2)
- 934 Thessalonikē (Table T2)
- Tokyo  
Before 1912  
Arrange by date; subarrange each by Table T2
- 937 1912-  
Arrange by date; subarrange each by Table T2
- 938 Toluca, Mexico (Table T2)
- 939 Toronto (Table T2)
- 940 Toyama (Table T2)
- 941 Trieste (Table T2)
- 944

## Exhibitions

## Special exhibitions -- Continued

945	Tripoli (Table T2)
946	Tsukuba Kenkyū Gakuen Toshi (Japan) (Table T2)
	Turin
947	1884 (Table T2)
948	Later
	Arrange by date; subarrange each by Table T2
948.5	Ulm (Table T2)
948.7	Utsunomiya-shi (Japan) (Table T2)
949	Valladolid, 1850 (Table T2)
951	Valparaiso (Table T2)
953	Vancouver, B.C.
	Arrange by date; subarrange each by Table T2
955	Venice (Table T2)
	Vienna
960	1873 (Table T2)
960.2	1995 (Table T2)
967	Villanueva y Geltrú (Table T2)
975	Warsaw (Table T2)
	Washington
983	1846 (Table T2)
984	Since 1846
	Arrange by date; subarrange each by Table T2
986	Wellington, N. Z., 1885 (Table T2)
988	Wembley, Eng., 1924-1925 (Table T2)
990	Yokohama (Table T2)
991	Yösu-si (Korea), 2012 (Table T2)
992	Zagreb (Agram) (Table T2)
995	Zurich (Table T2)

- Engineering (General). Civil engineering (General)
- Periodicals and societies
  - 1 English
  - 2 French
  - 3 German
  - 4 Other languages (not A-Z)
  - 5 Congresses
- Exhibitions. Museums
  - 6.A1 General works
  - 6.A2-Z By region or country, A-Z
    - Subarrange each country by Table T4b
- 7 Collected works (nonserial)
- 9 Dictionaries and encyclopedias
- Engineering literature see T10.7
- 11 Symbols and abbreviations
- 12 Directories of engineering companies and engineers
- History
  - 15 General works
  - 16 Ancient
  - 17 Medieval
  - Modern
    - 18 To 1800
    - 19 1800-
  - 21-127 Country divisions (Table T1a)
    - Add country number in table to TA0
    - Class here general historical and descriptive literature, reports on public works, etc.
    - Cf. HD3881+ Economic aspects of public works
- Biography
  - 139 Collective
  - 140.A-Z Individual, A-Z
- General works. Civil engineering, etc.
  - 144 Early to 1850
  - 145 1850-
  - 147 Elementary textbooks
  - 148 Popular works
  - 149 Juvenile works
  - 151 Handbooks, manuals, etc.
    - Cf. TA332 Pocketbooks, tables, etc. (Engineering mathematics)
    - Cf. TA685 Tables of structural shapes and sections of steel and iron
- 152 Laboratory manuals
- 153 General special
- 155 Addresses, essays, lectures
- Engineering as a profession. Engineers
  - Including working conditions, ethics, etc.
- 157 General works
- 157.5 Women in engineering. Women engineers
  - Industrial technicians
    - Cf. TS155.4+ Manufacturing personnel
- 158 General works
- 158.3 Instrumentation technicians
- Communication in engineering
  - 158.5 General works
  - 158.7 Computer network resources
    - Including the Internet
- Technical education. Technical schools see T61+
- 159 Examinations, questions, etc.

TA	ENGINEERING (GENERAL). CIVIL ENGINEERING (GENERAL)	TA
	Research	
160	General works	
	Special countries	
160.4	United States	
160.6.A-Z	Other regions or countries, A-Z	
163	Sustainable engineering	
	Cf. TD1+ Environmental technology	
	Bioengineering	
	Cf. R856+ Medical engineering	
164	General works	
164.2	Bionics	
	Cf. Q317+ Cybernetics	
164.4	Neuromorphics	
165	Engineering instruments, meters, etc. Industrial instrumentation	
	Cf. TJ212+ Control engineering	
165.5	Coordinate measuring machines	
	Human engineering	
	Class particular applications with the field of application, e.g. TL240+ Automobile design	
	Cf. QP360.7 Neuroergonomics	
	Cf. T59.7+ Industrial engineering	
166	General works	
167	Human-machine systems	
167.5	Neurotechnology	
	Including neuroadaptive systems	
168	Systems engineering	
	Cf. T57.6+ Systems analysis (Industrial engineering)	
168.5	Reverse engineering	
	Systems reliability	
	Cf. TS173 Reliability of industrial products	
169	General works	
169.3	Accelerated life testing	
	System failures	
	Including failure analysis	
169.5	General works	
169.55.A-Z	Special topics, A-Z	
169.55.R57	Risk assessment	
169.55.R66	Root cause analysis	
169.6	Fault location	
169.7	System safety	
	Cf. T55+ Industrial safety	
	Cf. TS175 Product safety	
	Environmental engineering	
	Cf. TD1+ Environmental technology	
	Cf. TH6014+ Environmental engineering in buildings	
170	General works	
171	Environmental testing	
174	Engineering design	
175	Drawings and designs	
	Cf. T351+ Mechanical drawing	
177	Engineering models	
	Engineering economy	
	Cf. TS165+ Cost control. Value engineering	
	Cf. TS181+ Planning for machinery. Tool life	
177.4	General works	
177.7	Cost effectiveness. Benefits-to-costs ratios	
178	Valuation and depreciation	

- Engineering economy -- Continued  
 Specifications  
     Cf. HD2365+ Competitive letting of contracts in industry  
     Cf. TH425 Construction of buildings  
 180 General works. Methods, etc.  
 181.A-Z By region or country, A-Z  
     Including the official manuals of public works  
 183 Estimates, quantities, and costs  
     Cf. TH434+ Construction of buildings  
 185 Accounting for engineers  
 Management of engineering works  
 190 General works  
 190.5 Office systems and records  
 191 Inspection of workmanship  
     Cf. TH439 Building inspection  
     Cf. TS156.2+ Inspection of manufactures  
 192 Safety measures  
 194 Planning of operations. Critical path analysis  
 Engineering meteorology  
 197 General works  
 198 Industry and meteorology  
     Class special industries and applications with the field e.g. TH7392.M6 Heating of factories  
 Contractors' operations and equipment. Contracting  
     Cf. TH11 Builders' and contractors' bulletins  
 201 Periodicals  
 210 General works  
 Engineering machinery, tools, and implements  
     Cf. TA735+ Excavating machinery  
     Cf. TH900+ Construction equipment in building construction  
     Cf. TS181+ Planning for machinery  
 213 General works  
 214 Directories  
 215 Trade and general catalogs, circulars, etc.  
 Consulting engineering  
     Cf. T56.3 Management consultants  
     Directories see TA12  
 216 General works  
 217.A-Z Special companies. By name, A-Z  
 219 Forensic engineering  
     For image analysis see see TA1654  
 (221-327) Engineering law  
     see class K  
 Engineering mathematics. Engineering analysis  
     Cf. TA640+ Computational methods of structural engineering  
 329 Periodicals. Societies. Collections. Congresses  
 330 General works  
 331 General special  
 332 Pocketbooks, tables, etc.  
 Study and teaching  
 332.5 General works  
 333 Problems, exercises, examinations  
 335 Numerical methods. Approximations  
 Schematic and graphic methods  
 337 General works  
 338.A-Z Special topics, A-Z  
 338.B6 Bond graphs

- Engineering mathematics. Engineering analysis  
 Schematic and graphic methods  
 Special topics, A-Z -- Continued
- 338.F5 Flowgraphs  
 338.G7 Graph theory  
 338.N6 Nomograms  
 340
- Probabilistic and statistical methods  
 Mathematical models  
 Cf. TA177 Engineering models
- 342 General works  
 343 Analogs. Simulation methods  
 Cf. T57.62+ Industrial engineering
- Electronic data processing. Computer-aided engineering  
 General works  
 Special systems, A-Z
- 345 ANSYS  
 345.5.A-Z Architecture Analysis and Design Language  
 345.5.A57 AutoCAD Civil 3D  
 345.5.A73 CATIA  
 345.5.A98 COMSOL Multiphysics  
 345.5.C38 DesignCAD  
 345.5.C66 ICES  
 345.5.D47 MESY  
 345.5.I2 Mathematica  
 345.5.M16 MATLAB  
 345.5.M38  
 345.5.M42  
 345.5.P37 Parallel processing  
 Including use of Charm++
- 345.5.R73 RS/1  
 345.5.U53 UNISURF CAD
- 347.A-Z Other specific mathematical aids in the solution of engineering problems, A-Z  
 347.A78 Artificial intelligence  
 347.B69 Boundary value problems  
 347.C3 Calculus of variations  
 347.C54 Closed circular ring problems  
 347.C6 Combinatorial analysis  
 347.C64 Complex analysis. Functions of complex variables  
 Complex variables, Functions of see TA347.C64  
 347.C68 Coupled problems  
 347.D4 Determinants and matrices  
 347.D45 Differential equations  
 347.D5 Dimensional analysis  
 347.D52 Dimensionless numbers  
 347.D57 Distributed point source method  
 347.E96 Evolutionary computation  
 347.F5 Finite element method  
 347.F86 Functional analysis  
 Functions of complex variables see TA347.C64  
 347.G46 Geometric methods  
 347.I5 Integral equations  
 347.L5 Linear algebras  
 Matrices see TA347.D4  
 347.N46 Nets  
 347.N56 Nonlinear methods  
 347.N6 Normal numbers  
 347.T4 Tensor analysis  
 347.T7 Transfer functions

- Engineering mathematics. Engineering analysis  
 Other specific mathematical aids in the solution of engineering problems, A-Z -- Continued
- 347.V4 Vector analysis  
 348 Power spectra
- Mechanics of engineering. Applied mechanics  
 For structural engineering see TA630+  
 For mechanics applied to machinery see TJ170+  
 Cf. TA405+ Mechanics of materials
- 349 Periodicals, societies, congresses, etc.  
 349.5 Dictionaries and encyclopedias  
 350 General works  
 350.2 Laboratory manuals  
 350.3 Addresses, essays, lectures  
 350.5 Study and teaching  
 350.7 Problems, exercises, examinations  
 351 Applied statics  
 Applied dynamics  
 352 General works  
 353 Contact mechanics  
 354 Impact  
 354.5 Penetration mechanics  
 355 Vibration in engineering  
 Cf. TA654+ Structural engineering  
 Cf. TG265 Bridges  
 Cf. TH153 Building (General)  
 Cf. TJ208 Vibrators
- 356 Vibration of vehicles  
 For vibration of specific vehicles, see the type of vehicle, e.g. TF Railroad vehicles; TL Motor vehicles
- Applied fluid mechanics  
 Including fluid dynamics  
 Cf. TC160+ Technical hydraulics  
 Cf. TJ267 Theory of turbines  
 Cf. TJ853+ Fluidics and fluidic devices
- 357 General works  
 357.3 Problems, exercises, etc.  
 357.5.A-Z Special topics, A-Z  
 Aerodynamics see TA358
- 357.5.A95 Axial flow  
 357.5.C38 Cavitation  
 357.5.C45 Cellular flows  
 Computational fluid dynamics see TA357.5.D37
- 357.5.C65 Convection  
 357.5.C68 Counterflows  
 357.5.D37 Data processing. Computational fluid dynamics  
 357.5.F55 Flow visualization  
 357.5.F58 Fluid-structure interaction  
 Fluid transients see TA357.5.U57
- 357.5.G47 Granular flow  
 Mathematics see QA901+
- 357.5.M43 Measurements  
 357.5.M59 Mixing  
 357.5.M84 Multiphase flow. Two-phase flow  
 357.5.P58 Planar laser-induced fluorescence  
 357.5.R44 Reduced gravity environments  
 357.5.S57 Sloshing

- Mechanics of engineering. Applied mechanics
  - Applied fluid mechanics
    - Special topics, A-Z -- Continued
- 357.5.T87 Turbulence
  - Two-phase flow see TA357.5.M84
- 357.5.U57 Unsteady flow
- 357.5.V56 Viscous flow
- 358 Aerodynamics in engineering
  - Cf. TL570+ Mechanics of flight
- 359 Aerodynamics of vehicles
  - For aerodynamics of specific vehicles, see the vehicle, e.g. TF Railroad vehicles; TL Motor vehicles
- Acoustics in engineering. Acoustical engineering
  - Class particular uses in the field of application, e.g. ML3805 Music; NA2800 Architectural acoustics; TK5981+ Electroacoustics
  - Cf. TA418.84 Acoustical properties of materials
  - Cf. TD891+ Noise control
  - Cf. TH1725 Sound control in buildings
  - Cf. TK5103.52 Acoustical telecommunication
- 365 General works
- 365.5 Anechoic chambers
- 367 Ultrasonics in engineering
  - Cf. TA417.4 Ultrasonic testing
- 367.5 Lasers in engineering
- 368 Standards (Collections, indexes, etc.)
  - Class special collections of standards by subject in T-TX, e.g. TJ1330 Bolts and nuts
  - Cf. T59+ Standardization
- Materials of engineering and construction
  - Including building materials
  - For constitution and properties of matter see QC170+
- 401 Periodicals. Societies. Collections
- 401.3 Congresses
- Exhibitions
  - General works
  - By region or country, A-Z
    - Subarrange each country by Table T4b
- 402 Dictionaries and encyclopedias
- 402.3 Directories of materials scientists
- 402.5.A-Z Special regions or countries, A-Z
- 402.7 Developing countries
- 403 Treatises
- 403.2 Popular works. Juvenile works
- 403.4 Pocketbooks, tables, etc.
- 403.6 General special
  - Including transportation, quality control, etc.
- 403.8 Addresses, essays, lectures
- 403.9 Materials science as a profession
- 404 Study and teaching
- 404.2 Research
  - Cf. TA416+ General engineering and testing laboratories
- 404.23 Data processing
  - Including computer simulation
- 404.25 Communication in materials engineering
  - Including materials databases
- 404.3 Problems, exercises, etc.
- 404.5 Specifications and standards



## Materials of engineering and construction -- Continued

## Specific characteristics of materials

For chemical properties, see QD, TN, and TP

For electric and magnetic properties, see QC501-QC764; TK

## Mechanical properties. Behavior of materials under applied forces

- 404.8 General works  
Strength of materials. Mechanics of materials
- 405 General works
- 407 General special  
Including stress analysis
- 407.2 Pocketbooks, tables, etc.
- 407.4 Problems, exercises, examinations
- 407.6 Study and teaching
- 409 Failure of materials. Fracture  
Cf. TA417.6 Deformation of materials
- 409.2 Service life of materials
- 409.3 Strengthening mechanisms
- Testing of materials (General and mechanical)
- 410 General works
- 412 Laboratory machines  
Testing machines
- 413 General works
- 413.5 Strain gages
- 413.85 Wear-testing machines
- General engineering and testing laboratories  
Cf. TJ148 Mechanical engineering laboratories
- 416 General works
- 416.5.A-Z By region or country, A-Z
- 417.A-Z Special laboratories. By name, A-Z
- Nondestructive tests
- 417.2 General works  
Acoustic emission testing see TA418.84
- 417.23 Microscopy
- 417.25 Radiographic examinations
- 417.3 Magnetic analysis
- 417.35 Electric analysis
- 417.36 Electromagnetic testing  
Including eddy current testing
- 417.4 Ultrasonic testing
- 417.43 Optical characterization
- 417.45 Holographic testing
- 417.5 Infrared examinations
- 417.55 Penetrant inspection
- 417.6 Deformation of materials under stress
- 417.7.A-Z Behavior of materials under specific stresses, A-Z  
For specific properties and tests, see the subject, e.g. TA418+ Elastic properties and tests  
For specific properties and tests, see the subject, e.g. TA418.14+ Plastic (inelastic) properties and tests
- Bending see TA417.7.F5
- 417.7.C6 Composite materials
- 417.7.C65 Compression
- 417.7.F5 Flexure
- 417.7.H53 High gravity
- 417.7.H55 High temperature
- 417.7.R43 Reduced gravity
- 417.7.S5 Shear

- Materials of engineering and construction
  - Specific characteristics of materials
    - Mechanical properties. Behavior of materials under applied forces
      - Testing of materials (General and mechanical)
        - Behavior of materials under specific stresses, A-Z -- Continued
          - 417.7.T4 Tension
          - 417.7.T6 Torsion
  - Specific properties and tests
    - Elastic properties and tests
      - 418 General works
      - 418.12 Photoelasticity
    - Plastic (inelastic) properties and tests
      - 418.14 General works
      - 418.15 Photoplasticity
      - Ductile and brittle states
        - 418.16 General works
        - 418.17 Notch effect
        - 418.18 Strain hardening
      - 418.2 Viscous flow. Viscoelasticity
      - 418.22 Creep behavior
    - Temperature-dependent properties and tests
      - Including effects of temperature on yield strength, viscous flow, etc.
      - Cf. TA418.52+ Thermal properties and tests
    - 418.24 General works
    - 418.26 Heat resistant materials. Refractory materials
      - Cf. TN677+ Metallurgical furnaces and refractory materials
    - 418.28 Cold resistant materials
  - Time-dependent properties and tests
    - 418.3 General works
    - Dynamic properties
      - 418.32 General works
      - 418.34 Impact strength
  - Endurance properties and tests
    - 418.36 General works
    - 418.38 Fatigue behavior
    - 418.4 Mechanical wear
      - Cf. TA418.72 Friction properties
  - 418.42 Hardness properties and tests
  - 418.45 Hard materials
- Physical properties
  - 418.5 General works
  - Thermal properties and tests
    - 418.52 General works
    - 418.54 Thermal conductivity
      - Cf. TH1715+ Insulation and insulating materials
    - Thermal expansion
      - 418.56 General works
      - 418.58 Thermal stresses
  - 418.59 Space environmental effects and tests
  - 418.6 Radiation effects and tests
  - 418.62 Optical properties and tests
  - 418.64 Moisture content
  - Surface effects and tests
    - 418.7 General works
    - 418.72 Friction properties
      - Cf. TJ1075+ Lubrication and friction

- Materials of engineering and construction
  - Physical properties
    - Surface effects and tests -- Continued
      - Corrosion properties. Deterioration
        - Cf. TA462 Corrosion of metals
      - 418.74 General works
      - 418.75 Corrosion-resistant materials
      - 418.76 Protective coatings
    - Materials as particles, with tests
      - 418.78 General works
      - 418.8 Particle size determination
      - 418.82 Porosity and denseness, with tests
      - 418.84 Acoustical properties and tests
        - Cf. TH1725 Soundproof construction
        - Cf. TH1727 Acoustical materials
  - Materials of special composition or structure, A-Z
    - 418.9.A-Z
    - 418.9.A25 Ablative materials
    - 418.9.A58 Amorphous substances
    - 418.9.B73 Braided structures
      - Cf. TA418.9.C6 fibrous composites
    - 418.9.C57 Coatings
      - Cf. TA418.76 Protective coatings
      - Cf. TA446 Cement coating
      - Cf. TA491 Metal coating
      - Cf. TP156.C57 Coating processes
      - Cf. TP934+ Paints
      - Cf. TP935.A2+ Protective coatings
      - Cf. TP1175.S6 Spraying with plastics
      - Cf. TS653+ Plastic coating on metals
      - Cf. TS699 Powder coating of metals
    - 418.9.C6 Composite materials
      - Including fibrous composites
      - Cf. TA481+ Metallic composites
    - 418.9.C7 Crystalline solids
    - 418.9.F5 Fibers
      - For fibrous composites see TA418.9.C6
    - 418.9.F6 Foamed materials
    - 418.9.F85 Functionally gradient materials
    - 418.9.G45 Gels
      - Including microgels and nanogels
    - 418.9.I53 Inhomogeneous materials
    - 418.9.L3 Laminated materials
    - 418.9.L53 Lightweight materials
    - 418.9.L54 Liquid crystals
      - Microgels see TA418.9.G45
      - Nanogels see TA418.9.G45
    - 418.9.N35 Nanostructured materials
    - 418.9.P6 Porous materials
    - 418.9.R37 Rare earths
    - 418.9.R4 Reinforced materials
    - 418.9.S62 Smart materials
    - 418.9.S64 SPM materials
    - 418.9.T45 Thin films
    - 418.9.T96 Two-dimensional materials
  - Special materials
    - For design and construction in special materials see TA663+

## Materials of engineering and construction

## Special materials -- Continued

## Nonmetallic materials

418.95

## General works

## Wood

Cf. TA666+ Wooden construction

Cf. TS800+ Lumber and woodwork

Cf. TS920+ Chemical processing of wood

419.A1

Periodicals, societies, congresses, etc.

419.A2-Z

General works

419.5

Standards

420

Strength and testing of wood

Deterioration and preservation of wood

Cf. TC200 Deterioration of structures exposed to sea water

422

General works

Special destructive agents

Including their control

423

General works

Fungi. Decay

423.2

General works

423.3

Dry rot

423.4

Stain fungi

Insects

423.6

General works

423.63

Beetles

423.7

Termites

Preservation of wood

Cf. TT300+ Painting

424

General works

424.2

Testing

424.4

Special preservation methods

Including pressure-impregnation

424.6.A-Z

Special preservatives, A-Z

424.6.C7

Creosote

424.6.F8

Fungicides

424.6.O4

Oil-soluble preservatives

424.6.R8

Rubber

424.6.S3

Salt

424.6.W3

Water-soluble preservatives

## Masonry materials

Cf. TA670+ Construction

425

General works

## Stone

426

General works

427

Strength and testing of stone

428.A-Z

Special kinds of stone, A-Z

428.L5

Limestone

Cf. TA428.T73 Travertine

428.M3

Marble

428.T73

Travertine

430

Ceramic materials

## Artificial materials

431

General works

Brick, tile, terra cotta

432

General works

433

Strength and testing of brick, etc.

## Materials of engineering and construction

## Special materials

## Nonmetallic materials

## Masonry materials

## Artificial materials -- Continued

## Cement, lime, mortar, etc.

Cf. TP875+ Cement industries

434

General works

435

Strength and testing of cement, etc.

## Mortar

436

General works

437

Strength and testing

438

Cement composites

## Concrete

Including Portland cement concrete

Including mixing

439

General works

439.5

Recycling

440

Strength and testing

Including concrete corrosion

441

Aggregates

Including use of slag, clinkers, etc

442

Concrete and timber

Special types of concrete

442.5

General works

443.A-Z

By cementing substance, A-Z

443.A7

Asphalt

443.C64

Colloidal concrete

443.P58

Polymers

443.R4

Resin

443.5

Air-entrained concrete

443.53

Autoclaved aerated concrete

Reinforced concrete

444

General works

444.5

Prestressed concrete

444.52

Pre-tensioned prestressed concrete

444.53

Post-tensioned prestressed concrete

445

Strength and testing

445.5

Corrosion of reinforcing bars

Reinforcing bar practice see TA683.42

445.7

Self-consolidating concrete

446

Shotcrete. Gunite. Cement guns

447

Pipes of cement, concrete, and clay

Including drain tiles, culverts, etc.

Cf. TP885.P5 Pipe manufacture

448

Plastic pipes

Cf. TH6330 Plastic pipes in plumbing

Cf. TP1185.P5 Manufacture of plastic pipes

450

Glass

Including fiber glass

455.A-Z

Other nonmetallic materials, A-Z

455.A3

Abrasives

455.A34

Adhesives

455.A6

Asbestos

455.A62

Asbestos substitutes

## Materials of engineering and construction

## Special materials

## Nonmetallic materials

## Other nonmetallic materials, A-Z -- Continued

455.A63	Ashes Cf. TA455.F55 Fly ash
455.A7	Asphalt
455.B3	Bamboo
455.B5	Bituminous materials
455.B65	Borides
455.C3	Carbon
455.C43	Ceramic materials (General) For ceramic materials for heat-engines see TJ255.5 Cf. ML86 Music on ceramics Cf. NK3700+ Art industries Cf. R857.C4 Biomedical engineering Cf. RK655 Ceramics in dentistry Cf. TA430 Ceramic masonry materials Cf. TA479.6 Ceramic metals Cf. TK7871.15.C4 Electronics Cf. TP785+ Chemical technology Cf. TP825+ Ceramics, Architectural Cf. TT919+ Pottery craft
455.C45	Chromic materials
455.C55	Clay minerals
455.C6	Cork
455.C65	Corundum
455.E4	Elastomers
455.E5	Enamels
455.E6	Epoxy resins
455.F3	Faolite
	Fiber glass see TA450
455.F5	Fire clay
455.F54	Fluorine compounds
455.F55	Fly ash Cf. TE210.5.F55 Soil stabilization materials
455.G44	Geosynthetics
455.G65	Graphene
455.G7	Graphite
455.G73	Gravel
455.G9	Gypsum
455.L3	Laterite
455.L6	Loess
455.M5	Mica
455.N5	Nitrides
455.P4	Peat
455.P45	Perlite
455.P46	Perovskite
455.P49	Plant fibers
	Plastics
455.P5	General works
455.P55	Reinforced plastics
	Polymers
455.P58	General works
455.P585	Shape memory polymers
455.R4	Reed

## Materials of engineering and construction

## Special materials

## Nonmetallic materials

## Other nonmetallic materials, A-Z -- Continued

Refractory materials see TN677+

455.R8 Rubber  
 455.S3 Sand  
 455.S35 Semimetals  
 455.S4 Shale  
 455.S43 Shells (Sea shells)  
 455.S46 Silicates  
 455.S5 Slag  
 455.S6 Soil  
 455.S8 Straw  
 455.S84 Stucco  
 455.S93 Sulfur  
 455.T3 Talc  
 455.V4 Vermiculite  
 455.W3 Wallboard

## Metals

Cf. TA684+ Metal construction

Cf. TN689+ Metallography

459 General works  
 460 Strength and testing  
 461 Specifications  
 462 Corrosion and protection against corrosion  
     Cf. TS653+ Metal finishing  
     Cf. TT300+ Industrial and structural painting  
 463 Liquid metals  
     Cf. QC173.4.L56 Physics  
 Iron and steel  
     Cf. TN701.482+ Metallurgy  
     Cf. UG408+ Iron and steel for land defenses  
 464 General works  
 465 Strength and testing  
 466 Specifications  
 467 Corrosion and protection against corrosion  
     For stray currents from electric traction see TF912  
     For electrolytic corrosion of underground lines see TK3255  
 Wrought iron  
     Including specifications  
 469 General works  
 470 Strength and testing  
 Steel  
     Including specifications  
 472 General works  
 473 Strength and testing  
 Cast iron  
     Including specifications  
 474 General works  
 475 Strength and testing  
 Iron and steel alloys  
 478 General works  
 479.A-Z Special, A-Z  
 479.A4 Aluminum alloys  
 479.A88 Austenitic steel

## Materials of engineering and construction

## Special materials

## Metals

## Iron and steel

## Iron and steel alloys

## Special, A-Z -- Continued

479.B6	Boron steel
479.B7	Bulat steel
479.C37	Carbon steel
479.C5	Chromium steel
479.C7	Copper steel
	Ferritic steel see TA479.S7
479.H43	Heat resistant steel
	Cf. TA485 Heat resistant alloys
479.L54	Lightweight steel
	Maraging steel see TA479.N5
479.N5	Nickel steel
479.S5	Silicon alloys
479.S7	Stainless steel
479.T8	Tungsten alloys
479.V3	Vanadium steel
479.3	Nonferrous metals
479.6	Ceramic metals
480.A-Z	Special metals, including their alloys, A-Z
480.A6	Aluminum
	Including duralumin
480.B4	Beryllium
480.C5	Chromium
480.C6	Cobalt
480.C7	Copper
	Including brass and bronze
480.G4	Germanium
480.I53	Indium
480.L4	Lead
480.L5	Lithium
480.M3	Magnesium
480.M35	Manganese
480.M4	Mercury
480.M6	Molybdenum
480.N6	Nickel
480.N63	Nickel-titanium alloys
480.N65	Niobium
480.P35	Palladium
480.R3	Rare earth metals
480.R5	Rhenium
480.R8	Rubidium
480.S5	Silver
480.T34	Tantalum
480.T5	Tin
	Including babbitt
480.T54	Titanium
480.T9	Tungsten
480.U7	Uranium
480.Y8	Yttrium
480.Z6	Zinc
480.Z65	Zirconium



## Materials of engineering and construction

## Special materials

## Metals -- Continued

## Metallic composites

481  
481.5

General works

Fiber-strengthened composites

## Alloys

483  
483.3

General works

Eutectic alloys

Including hypereutectic and hypoeutectic alloys

484

Lightweight alloys

Cf. TA480.A6 Aluminum

485

Heat resistant alloys

Cf. TA479.H43 Heat resistant steel

Cf. TA479.6 Ceramic metals

486

Corrosion-resistant alloys

487

Shape memory alloys

491

## Metal coatings

Cf. TP1175.M4 Metal coating of plastics

Cf. TS590+ Metal manufactures

492.A-Z

## Special forms and shapes in metal, A-Z

492.A3

Adhesive joints

492.A6

Angles

492.B3

Balls

492.B63

Bolts and nuts

492.C6

Chains

492.C7

Columns

492.C9

Cylinders

492.F4

Filletts

492.F5

Flanges

492.G5

Girders

492.H6

Hooks

492.N2

Nails and spikes

492.P6

Pipes

492.P7

Plates

492.R6

Rivets

Cf. TA891 Riveting

492.S25

Sandwich construction elements

492.S3

Screws

492.S5

Shafting

492.T4

Tee stiffeners

492.T8

Tubes

492.W4

Welded joints

492.W7

Wire

492.W77

Wire netting

492.W8

Wire rope

495

## Disasters and engineering

Cf. TC181 Earthquakes and hydraulic structures

Cf. TC530+ Flood control

Cf. TF539 Damage to railroads

Cf. TH1095 Earthquakes and building

## Surveying

501

Periodicals, societies, etc.

502

Congresses

504

Collected works (nonserial)

505

Dictionaries and encyclopedias

- Surveying -- Continued
- 506 Directories
- History
- 514.7 Periodicals, societies, serials, etc.
- 515 General works
- 516 Ancient
- 517 Medieval
- 518 Modern
- 519 19th-20th centuries
- 520 20th century
- 521-531 Special regions or countries
- America. United States
- 521 General works
- Special divisions (United States)
- 521.5.A-Z By region, A-Z
- e.g.
- 521.5.N4 New England
- 522.A-.W States, A-W
- 522.5.A-Z Cities, A-Z
- Canada
- 523.A1 General works
- 523.A3-Z By region or province, A-Z
- Under each province:*
- .x *General works*
- .x3A-.x3Z *Special cities, A-Z*
- 524 Latin America. West Indies (Table T4)
- 525 South America (Table T4)
- 526 Europe (Table T4)
- 527 Asia (Table T4)
- 528 Africa (Table T4)
- Australia
- 529.A1 General works
- 529.A3-Z By region or state, A-Z
- Under each state:*
- .x *General works*
- .x3A-.x3Z *Special cities, A-Z*
- 529.5 New Zealand
- 530 Pacific islands (Table T4)
- 531 Arctic regions
- Biography
- 532 Collective
- 533.A-Z Individual, A-Z
- 534 Surveying as a profession
- Study and teaching
- 535 General works
- 537 Examinations, questions, etc.
- 538.A-Z By region or country, A-Z
- General works
- 544 Early to 1800
- 545 1800-
- 549 General special
- 551 Pocketbooks, field manuals, etc.
- 552 Tables
- 555 Addresses, essays, lectures
- 556.A-Z Special topics, A-Z
- 556.M38 Mathematics

- Surveying -- Continued
- Instruments
    - 562 General works
    - Special instruments
      - 563 Compass
      - 565 Levels
      - 571 Planetable
      - 575 Theodolite and transit
      - 579 Other instruments
      - 581 Trade catalogs, circulars, etc.
      - 583 Triangulation for engineering works
        - Cf. QB311 Geodesy
        - Cf. TA593.8+ Photographic triangulation
    - 585 Traverses
    - 588 Stadia surveying
    - 590 Topographical surveying
    - Photography in surveying, aerial surveying, etc.
      - For special applications of photographic surveying, see the application
    - 592 Periodicals. Societies. Serials
    - 592.2 Congresses
    - 592.3 Collected works (nonserial)
    - 592.4 Dictionaries and encyclopedias
    - History
      - 592.5 General works
      - 592.6.A-Z By region or country, A-Z
        - Subarrange each country by Table T4a
    - 593 General works
      - 593.2 General special
      - 593.25 Handbooks, tables, etc.
      - 593.3 Addresses, essays, lectures
      - 593.35 Instruments, cameras, etc.
      - 593.4 Photographic reading, interpretation, etc.
      - 593.5 Mathematical models. Data processing
      - 593.6 Standards, specifications, etc.
      - 593.7 Stereophotogrammetry
      - Photographic triangulation
        - 593.8 General works
        - 593.83 Strip adjustment. Block adjustment
      - 593.9.A-Z Other topics, A-Z
        - 593.9.E75 Errors
        - Graphic plotting see TA611
        - 593.9.T54 Tilt
    - Other methods. Compass surveying, etc.
      - 595 General works
      - 595.5 Satellite surveying
    - 597 Applications of astronomy
      - e.g. Azimuth observations
      - Cf. QB201+ Geodesy
      - Cf. VK563 Navigation
    - 601 Measurement of distances
    - 603 Measurement of angles
    - Leveling
      - 606 General works
      - 607 Spirit leveling. Precise leveling
      - 609 Trigonometric
      - Barometric hypsometry see QC895

- Surveying
  - Leveling -- Continued
    - 610.A-Z Lists of bench marks. By country, A-Z
  - 611 Plotting
  - Computation of areas
    - 613 General works
    - 614 Planimeters
      - Class here works on application only
  - 616 Topographic drawing
    - Class here engineering works only
    - Cf. GA125 Cartography
    - Cf. UG470+ Military topography
  - Surveying for special purposes
    - 622 Public land
    - 623 Hydraulic surveying for engineering purposes
    - Hydrographic surveying see VK588+
    - City surveying see TD167
    - Geodetic surveying see QB301+
    - Geophysical surveying see TN269+
    - Landscape architectural surveying see SB475.9.S95
    - Military surveying see UG470+
    - Mine surveying see TN273
    - Railroad surveying see TF210+
    - Road surveying see TE209+
    - 625 Other special applications
  - Structural engineering (General)
    - For structural engineering of a specific kind of structure, see the structure, e.g. TC540 Dams; TG Bridges; TH Buildings; TJ Machinery; TL Vehicles; VM Ships
    - Cf. TA660.A+ Specific structural forms without regard to material used
    - Cf. TA663+ Structures in special materials, including their structural parts
  - 630 Periodicals, societies, congresses, etc.
  - 631 Dictionaries and encyclopedias
  - General works
    - 632 Early to 1850
    - 633 1850-
    - 634 Juvenile works
    - 635 Pocketbooks, tables, etc.
    - 636 General special
    - 637 Addresses, essays, lectures
    - 638 Study and teaching
    - 638.2 Research
    - 638.5 Examinations, questions, etc.
    - Structural engineering project management see TA190+
    - Structural drawing see T355
    - Computational methods
      - 640 General works
      - 640.2 General special
      - 640.4 Problems, exercises, etc.
      - 640.6 Graphic statics
        - Cf. TG270 Graphic statics in bridge engineering
        - Cf. TJ235 Graphic statics in mechanical engineering
    - 640.8 Influence lines
    - 641 Electronic computer methods
    - 642 Matrix methods
    - 643 Model analysis. Simulation methods
  - Structural analysis. Theory of structures

## Structural engineering (General)

## Structural analysis. Theory of structures -- Continued

- 645 General works
- 646 General special
- 647 Data processing
- Static loading conditions
- 648 General works
- 648.2 Dead loads
- 648.3 Stresses
- 648.4 Shear. Bending moments
- 648.5 Strains and deflections
- Statistically indeterminate structures
  - Including the slope-deflection method, moment-distribution method, Cross method, Castigliano's theorem, three-moment theorem, etc.
- 650 General works
- 651 Continuous systems
- 652 Limit analysis. Plastic analysis. Yield stress analysis
- 653 Elastic analysis
- Dynamic loading conditions. Structural dynamics. Vibrations
- 654 General works
- 654.15 Modal analysis
- 654.2 Impact loading
- Live loads. Moving loads
- 654.3 General works
- 654.33 Road loads
- 654.4 Snow and ice loads
  - Cf. TG304 Bridges
  - Cf. TH895 Snow loads in building
- 654.5 Wind loads
  - Cf. TG303 Wind pressure on bridges
  - Cf. TH891 Wind pressure in building
- 654.55 Water wave loads
- 654.6 Earthquake forces
  - Including general earthquake engineering
  - Cf. QE539.2.S34 Earthquake safety measures and hazard analysis
  - Cf. TA658.44 Earthquake resistant design
  - Cf. TC181 Hydraulic structures
  - Cf. TF539 Railroads
  - Cf. TH1095 Earthquakes and building
- 654.7 Blast loads
  - Cf. TA658.42 Blast resistant design
  - Cf. TH1097 Bombproof construction
- 654.8 Thermal stresses
- 654.9 Dynamic control
- Stability of structures. Structural failure
- 656 General works
- 656.2 Buckling
- 656.3 Fatigue
- 656.4 Brittle fracture
- 656.5 Probability of safety
- 656.6 Structural health monitoring
- Structural design
  - For design of structures of a specific material, see the specific material in TA663+
- 658 General works
- 658.2 General special
- 658.3 Pocketbooks, tables, etc.

	Structural engineering (General)
	Structural design -- Continued
658.35	Problems, exercises, examinations
	Structural design for dynamic loads
658.4	General works
658.42	Blast resistant design
658.44	Earthquake resistant design
	Cf. TA654.6 Earthquake forces and earthquake engineering
	Cf. TH1095 Earthquakes and building
658.48	Wind resistant design
	Cf. TA654.5 Wind loads
	Cf. TH891 Wind pressure in building
658.6	Limit design. Plastic design
658.8	Structural optimization
660.A-Z	Specific structural forms, analysis, and design, A-Z
660.A53	Angles
660.A7	Arches
	Cf. TG327+ Arched bridges
	Cf. TH2150+ Arches in building detail
660.B3	Bars
660.B4	Beams
	Cf. TG350+ Beams and girders of bridges
660.B43	Beams, Continuous
660.B45	Bearings
	Cf. TJ1061+ Mechanical engineering
660.C3	Cables. Cable structures
660.C36	Cantilevers
660.C37	Castellated beams
660.C47	Channels
	Circular plates see TA660.P62
660.C6	Columns
660.C9	Cylinders
660.D52	Diaphragms
660.D6	Domes
	Cf. TH2170+ Domes in building detail
660.E9	Expansion joints
	Cf. TJ424 Pipe fittings
	Cf. TL784.E9 Rockets
660.F53	Flexible structures
660.F57	Flitch beams
660.F6	Floors (General)
	Cf. TH2521+ Floors in building design and construction
	Folded plates see TA660.P63
660.F7	Frames
660.F72	Frames, Continuous
660.F73	Frames, Multistory
	Girders, Plates see TA660.P59
660.G7	Grillages
660.H66	Honeycomb structure
660.H97	Hyperboloid structures
660.J64	Joints
660.P55	Pipelines
660.P59	Plate girders
660.P6	Plates
660.P62	Plates, Circular
660.P63	Plates, Folded

## Structural engineering (General)

## Specific structural forms, analysis, and design, A-Z -- Continued

- 660.P65 Plates, Twisted  
660.P73 Polyhedra  
Pressure vessels see TA660.T34
- 660.S3 Sandwich elements  
660.S5 Shells  
Cf. TH2416+ Shell roofs of buildings
- 660.S6 Slabs  
660.S63 Space frame structures  
660.S66 Steel beams  
660.S67 Steel-wood I-beams  
660.S7 Struts  
660.T34 Tanks. Pressure vessels  
Cf. TF271 Track tanks  
Cf. TH4935 Silos  
Cf. TP692.5 Petroleum storage tanks  
Cf. TP756 Gasholders  
Cf. TP756.5 Underground storage
- 660.T46 Tensile architecture  
660.T48 Thick-walled elements  
660.T5 Thin-walled elements  
660.T6 Towers  
660.T8 Trusses  
Cf. TG375+ Truss bridges  
Cf. TH2392 Roof trusses  
Twisted plates see TA660.P65
- 660.W3 Walls (General)  
Cf. TH2201+ Walls in building detail
- Design and construction in special materials  
For properties of special engineering materials without regard to their structural use see  
TA418.95+
- 663 Lightweight construction  
Cf. TH1100 Building construction
- 664 Composite design and construction  
665 Prestressed construction  
Wooden construction  
Cf. TH1101 Building construction
- 666 General works  
666.5.A-Z Individual structural members, A-Z  
666.5.B43 Beams  
666.5.J64 Joints  
666.5.P35 Panels. Paneling  
668 Plastic construction  
Masonry construction  
Cf. TH1199+ Building construction  
Cf. TH5311+ Practical masonry
- 670 General works  
672 Stereotomy  
Cf. TH5401+ Stonecutting
- 676 Stone  
Cf. TH1201 Building construction
- 679 Brick  
Cf. TH1301 Building construction  
Cement and concrete  
Cf. TH1461+ Building construction

## Structural engineering (General)

## Design and construction in special materials

## Masonry construction

## Cement and concrete -- Continued

- 680 Periodicals. Societies. Congresses
- 680.5 Directories
- 681 General works
- Analysis and design of structures
- 681.5 General works
- 682 Pocketbooks, tables, etc.
- 682.25 Specifications and standards
- 682.26 Estimates and costs
- 682.3 Joints. Hinges
- Practical construction methods
- 682.4 General works
- 682.42 Amateurs' manuals
- 682.43 Cold weather conditions
- 682.44 Formwork
- 682.445 Bearing pads
- 682.446 Maintenance and repair
- 682.45 Pump placing
- 682.455 Roller compacting
- 682.46 Vibration processes
- 682.47 Vacuum processes
- 682.48 Hot weather conditions
- 682.485 Underwater construction
- 682.49 Finishing processes
- 682.5.A-Z Individual structural members, A-Z
- 682.5.S5 Slabs
- Reinforced concrete construction
  - Cf. TA444+ Construction materials
  - Cf. TH1501 Building construction
- Periodicals. Societies. Congresses see TA680
- 683 General works
- Analysis and design of structures
- 683.2 General works
- 683.22 Pocketbooks, tables, etc.
- 683.23 Examinations, questions, etc.
- 683.24 Specifications and standards
- 683.26 Estimates
- 683.28 Drawings. Detailing
- 683.3 Joints
- Practical construction methods
- 683.4 General works
- 683.42 Reinforcing bars
  - Cf. TA445.5 Corrosion of reinforcing bars
- 683.44 Formwork
- 683.45 Inserts
- 683.46 Vibration methods
- 683.5.A-Z Individual structural members, A-Z
- 683.5.B3 Beams
- 683.5.C7 Columns
- 683.5.F8 Frames
- 683.5.P35 Panels
- 683.5.P65 Poles
- 683.5.S4 Shells



- Structural engineering (General)
  - Design and construction in special materials
    - Masonry construction
      - Cement and concrete
        - Reinforced concrete construction
          - Individual structural members, A-Z -- Continued
            - 683.5.S6 Slabs
            - 683.5.T7 Trusses
            - 683.5.W34 Walls
            - 683.7 Precast construction
              - For individual members see TA683.5.A+
            - Prestressed concrete construction
              - For individual members see TA683.5.A+
            - 683.9 General works
            - 683.94 Post-tensioned prestressed concrete construction
          - Metal construction
            - Iron and steel
              - Cf. TA890+ Cutting, bending, riveting of iron and steel
              - 684 General works
              - 685 Catalogs. Pocketbooks, tables, etc.
              - 690 Aluminum and aluminum alloys
              - 695.A-Z Other metal construction, A-Z
  - Engineering geology. Geotechnical engineering
    - Cf. TC542 Dam geology
    - 703 Periodicals. Societies. Serials
    - 703.5 Congresses
    - 704 Dictionaries and encyclopedias
    - 705 General works
      - By region or country
        - United States
          - 705.2 General works
          - 705.3.A-Z By region or state, A-Z
          - 705.4.A-Z Other regions or countries, A-Z
            - Subarrange each country by Table T4a
- Rock mechanics
  - 706 General works
  - 706.3 Drill cores
  - 706.5 Testing methods
  - 709 Rockfills
  - 709.5 Residual materials
- Soil mechanics
  - Including properties of soils, water in soil, strength properties, consolidation, etc.
  - Cf. TE208+ Soil surveys in highway engineering
  - Cf. TL243+ Dynamics of motor vehicles
  - 710.A1 Periodicals, societies, congresses, etc.
  - 710.A15 Dictionaries and encyclopedias
  - 710.A2-Z General works
    - By region or country
      - United States
        - 710.2 General works
        - 710.3.A-Z By region or state, A-Z
        - 710.4.A-Z Other regions or countries, A-Z
          - Subarrange each country by Table T4a
    - 710.5 Laboratory manuals. Testing of soils. Measurements
  - Soil dynamics
    - 711.A1 Periodicals, societies, congresses, etc.

- Soil mechanics
  - Soil dynamics -- Continued
    - 711.A2-Z General works
    - 711.5 Soil-structure interaction
    - 712 Underground construction
    - 713 Frozen ground construction
      - Cf. GB2401+ Physical geography
    - 714 Snow mechanics. Avalanche control
      - Cf. GB2401+ Physical geography
      - Cf. QC929.A8 Avalanches (Meteorology)
      - Cf. QC929.S7 Snow (Meteorology)
    - 714.5 Ice mechanics
  - Earthwork
    - 715 General works
    - 721 Tables, calculations, etc. Estimates
    - 725 Earthmoving machinery
      - Cf. TA735+ Excavating machinery
    - Excavations
      - 730 General works
      - 732 Juvenile works
        - Excavating machinery
          - Cf. TC187+ Dredging
          - Cf. TF225+ Railroads
      - 735 General works
      - 737 Trade catalogs
      - Rock excavation
        - 740 General works
        - 743 Rock drilling
          - Cf. TA800+ Tunneling
          - Cf. TD412 Well boring
          - Cf. TN275+ Mining operations
        - Rock drills
          - 745 General works
          - 747 Trade catalogs
      - 748 Blasting
      - 749 Soil stabilization
        - Including soil compaction
        - Cf. S593.23 Agriculture
        - Cf. TE210.4+ Highway engineering
    - 750 Hydraulic filling
    - 755 Grouting
      - Embankments, retaining walls, dams, etc.
        - Cf. TC540+ Dams
    - 760 General works
    - 765 Earth pressure
    - 770 Retaining walls
      - Geosynthetic encased columns see TA788
    - 772 Anchorage (Structural engineering)
      - Foundations
        - Cf. TC197 Foundations under water
        - Cf. TG320 Foundations of bridges
        - Cf. TH2101 Foundations of buildings
    - 775 General works
    - 777 Guy anchors
    - 780 Piles and pile-driving
      - General works

- Foundations
  - Piles and pile-driving -- Continued
    - 783 Screw-piles
    - 785 Sheet-piling
    - 786 Steel piling
    - 787 Concrete piling
    - 788 Geosynthetic encased columns
- Tunneling. Tunnels
  - Including vehicular tunnels
  - Cf. TF230+ Railroad tunnels and tunneling
  - Cf. TN285 Mine tunneling
- 800 Periodicals, societies, congresses, etc.
- History
  - 803 General works
  - 804.A-Z By region or country, A-Z
  - 805 General works
  - 807 Popular works. Juvenile works
  - 810 Pocketbooks, tables, etc.
  - 814 Ventilation and lighting
  - 815 Special topics and methods
  - 820.A-Z Tunnels. By place, A-Z
- Scaffolding see TH5281
- Practical masonry, stonecutting, bricklaying, etc. see TH5311+
- (881) Centering of arches
  - see TH5591
- Iron and steel work
  - Including cutting, bending, etc.
  - Cf. TA684+ Construction
- 890 General works
- 891 Riveting
- 900 Protection of structures
  - Cf. TH9025+ Protection of buildings
- 901 Waterproof construction
  - Cf. TH9030+ Protection of buildings from dampness
- Transportation engineering
  - Class individual types of transportation with the type, e.g. TF Railroads; TL Motor vehicles, airplanes, etc.
  - For economics of transportation see HE1+
- 1001 Periodicals and societies
- (1004) Yearbooks
  - see TA1001
- 1005 Congresses
- Museums. Exhibitions
  - 1006.A1 General works
  - 1006.A2-Z By region or country, A-Z
    - Subarrange each country by Table T4b
- 1007 Collected works (nonserial)
- 1009 Dictionaries and encyclopedias
- 1015 History
- 1021-1127 Country divisions (Table T1a)
  - Add country number in table to TA1000
- 1145 General works
- 1147 Popular works
- 1149 Juvenile works
- 1151 Handbooks, tables, etc.
- 1155 Addresses, essays, lectures

- Transportation engineering -- Continued
- 1160 Transportation engineering as a profession
- 1163 Study and teaching
- 1165 Data processing
- Route surveying see TA551; TA625
- 1200 Coordination of forms of transportation
- Urban and metropolitan transportation systems
- For local see TA1021+
- 1205 General works
- 1207 Personal rapid transit
- Freight
- 1210 General works
- 1215 Containerization
- 1225 Terminals. Transport centers
- 1227 Food service
- Cf. TF668.A1+ Dining car service
- 1230 Automation
- 1235 Electronics in transportation
- Signaling equipment
- 1245 General works
- 1250 Signal lights
- 1280 Heating, ventilation, and air conditioning equipment
- 1285 Access for people with disabilities. Barrier-free design
- Applied optics. Photonics
- Class applications in a special field with the field
- Cf. QC370.5+ Optical instruments and apparatus
- Cf. QH201+ Microscopes and microscopy
- Cf. TK5103.59+ Optical communications
- Cf. TK8300+ Optoelectronic devices. Photoelectronic devices
- Cf. TR1+ Photography
- Cf. TS510+ Optical instrument manufacture
- 1501 Periodicals. Societies. Serials
- 1505 Congresses
- 1509 Dictionaries and encyclopedias
- 1520 General works
- 1521 Juvenile works. Popular works
- 1522 General special
- 1530 Nanophotonics
- Applied holography
- Cf. HD9707.5.H34+ Holography industry
- Cf. QC244.5 Acoustic holography (Physics)
- Cf. QC449+ Holography (Physics)
- Cf. TA417.45 Holographic testing of engineering materials
- 1540 General works
- 1542 General special
- 1550 Acoustic holography
- 1552 Microwave holography
- 1555 Holographic interferometry
- For stereoscopic photography see TR780
- 1560 Three-dimensional imaging
- Class here general works on three-dimensional imaging
- For three-dimensional display systems see TK7882.T47

## Applied optics. Photonics -- Continued

## Infrared technology

- Cf. QC457 Infrared rays
- Cf. TK4635 Infrared heating
- Cf. TP363 Heating, drying, cooling, etc.
- Cf. TR755 Photography

1570

## General works

1573

## Detectors. Sensors

1600

## Ultraviolet technology

- Cf. QC459+ Ultraviolet rays

## Optical data processing

- Cf. TA1540+ Applied holography
- Cf. TK7895.O6 Optical equipment (Computers)
- Cf. TK8315+ Imaging systems

1630

## General works

1632

## General special

1634

## Computer vision

- Cf. TJ211.3 Robot vision

1635

## Optical data storage

- Cf. TK6685 Video discs and video disc equipment
- Cf. TK7882.C56 Compact discs
- Cf. TK7882.D93 DVDs. DVD players

1636

## Security measures

- Including image steganography, image encryption, and digital watermarking of image files

## Image processing

- For three-dimensional imaging see TA1560
- Cf. TK8315+ Imaging systems
- Cf. TR267+ Digital photography
- Cf. TR897.7+ Computer animation

1637

## General works

1637.5

## Mathematics

1638

## Image compression

- Including coding standards, e.g., JPEG
- For MPEG see TK6680.8.M74

1638.4

## Image segmentation

1640

## Optical character recognition

## Optical pattern recognition

1650

## General works

1653

## Human face recognition

1654

## Image analysis. Image authentication

- Cf. TA219 Forensic engineering

1655

## Image stabilization

## Micro-optics

1659.5

## General works

1660

## Integrated optics

1660.5

## Microlenses

## Lasers and laser applications

- For application in special fields, see the field, e.g. RE992.P5, Laser coagulation; TA1540-TA1555, Applied holography; TJ1191, Laser beam cutting; TK5103.6, Laser communication systems; TK6592.O6, Optical radar
- Cf. QC685+ Laser physics
- Cf. TK7871.4 Masers

1671

## Periodicals, societies, etc.

1673

## Congresses

1674

## Directories

1675

## General works

- Applied optics. Photonics
  - Lasers and laser applications -- Continued
    - 1677 General special
    - 1680 Popular works
    - 1682 Juvenile works
    - 1683 Handbooks, tables, etc.
    - 1684 Addresses, essays, lectures
    - 1688 Mode-locked lasers
    - 1690 Chemical lasers. Dye lasers
    - 1693 Free electron lasers
    - 1694 Gamma ray lasers
    - 1695 Gas lasers
    - 1695.5 High power lasers
    - 1696 Infrared and far infrared lasers
    - 1699 Raman lasers
      - Including Raman fiber lasers
    - 1700 Semiconductor lasers
    - 1705 Solid-state lasers (Ruby, etc.)
    - 1706 Tunable lasers
    - 1707 X-ray lasers
    - 1715 Laser ablation
  - Applied electrooptics. Electrooptical devices. Optoelectronics
    - For specific optoelectronic devices see TK8300+
    - Cf. QC673+ Electrooptics
- 1750 General works
  - Electroluminescent devices see TK7871.68+
  - Photoelectronic devices see TK8300+
- 1770 Applied acoustooptics. Acoustooptical devices
- 1773 Applied neutron optics. Neutron optical devices
- 1775 Applied X-ray optics
- Applied fiber optics
  - For fiber optics; optical fiber communication see TK5103.592.F52
  - Cf. QC447.9+ Fiber optics (Physics)
- 1800 General works
  - Cf. TK8306 Optical fibers
- 1815 Optical fiber detectors
- 1820 Stroboscopy
- Plasma engineering. Applied plasma dynamics
  - Class applications in a special field with the field
- 2001 Periodicals. Societies. Serials
- 2005 Congresses
- 2020 General works
- 2030 Plasma devices (General)
  - Cf. TK2970 Magnetohydrodynamic generators
  - Cf. TL783.6 Plasma rockets
- 2040 Magnetohydrodynamics. Magnetohydrodynamic devices
  - Cf. TK2970 Magnetohydrodynamic generators

- Hydraulic engineering  
 For municipal water supply see TD201+  
 For hydraulic machinery see TJ840.A2+
- 1 Periodicals, societies, etc.
- 5 Congresses  
 Exhibitions. Museums
- 6.A1 General works
- 6.A2-Z By region or country, A-Z  
 Subarrange each country by Table T4b
- 7 Collected works (nonserial)
- 9 Dictionaries and encyclopedias
- 12 Directories
- History and description
- 15 General works
- 16 Ancient
- 17 Medieval
- 18 Modern
- 19 19th century
- 20 20th century
- 21-127 Country divisions (General hydraulic works) (Table T1a)  
 Add country number in table to TC0
- Biography
- 139 Collective
- 140.A-Z Individual, A-Z  
 e.g.  
 140.K5 Kfir, Antoin̄in
- General works
- 144 Early to 1800
- 145 1800-
- 146 Juvenile works
- 147 Waterpower engineering. Hydraulic powerplants  
 Including use of tidal power  
 For power utilization of specific rivers see TC415+  
 Cf. TJ840.A2+ Hydraulic machinery  
 Cf. TK1081+ Hydroelectric power production  
 Cf. TK1421+ Hydroelectric powerplants
- 151 Pocketbooks, tables, etc.
- 153 General special
- 155 Addresses, essays, lectures
- Study and teaching
- 157 General works
- 157.5 Problems, exercises, etc.
- 157.8 Electronic data processing. Mathematics
- 158 Hydraulic laboratories
- 159 Safety measures
- Technical hydraulics
- 160 General works
- 163 General special
- 163.5 Environmental hydraulics  
 Hydraulic models
- 164 General works
- 164.6 Movable bed models
- Hydrostatics (Water at rest)
- 165 General works
- 167 Dams, reservoirs
- 169 Gates, sluices, etc.

- Technical hydraulics -- Continued  
 Hydrodynamics (Water in motion)
- 171 General works
  - 171.5 Water tunnels
  - 172 Water waves
  - 173 Orifices. Nozzles. Jets
    - Cf. TH9323 Fire streams
    - Cf. TP156.S6 Spraying
    - Cf. TP159.A85 Atomizers
  - 174 Pipes and conduits
    - Including water hammer
    - Open channels, rivers, and canals. Sluices, flumes, weirs. Stream gauging
  - 175 General works
  - 175.2 Sediment transport
    - For sediment transport of specific rivers, etc., see TC421+
  - 176 Underground flow
  - 177 Hydraulic measurements. Hydraulic instruments, meters, registers, etc.
    - Cf. TD499+ Domestic meters
    - Smart water grids see TD484
    - Tables, diagrams, etc.
  - 179 Hydraulic structures
    - Cf. TA654.55 Water wave loads
  - 181 Earthquakes and hydraulic structures
  - General preliminary operations
  - 183 General works
    - Diving see VM975+
    - Dredging
  - 187 General works
  - 188 Dredges
  - Submarine blasting
  - 191 General works
  - 192 Hell Gate
  - 193 Submarine drilling
    - Cf. TN871.3 Petroleum well drilling
  - Submarine building
  - 195 General works
  - 197 Submarine foundations. Cribwork, etc.
    - For bridge pier foundations see TG320
  - 198 Cofferdams
  - 199 Caissons
  - 200 Deterioration of structures exposed to sea water
    - Including corrosion
  - 201 Control of organisms injurious to submerged structures
    - Cf. QH91.8.M3 Marine biology
    - Cf. TA422+ Wood
  - Harbors and coast protective works. Coastal engineering
  - 203 Periodicals. Societies. Serials
  - 203.5 Congresses
  - 203.7 Dictionaries and encyclopedias
  - General works
  - 204 Early to 1800
  - 205 1800-
  - 209 General special
  - 215-327 History and country divisions (Table T1)
    - Add country number in table to TC200
    - Class here special harbors, inlets, channels, etc.



- 328 Marinas
- Coast protective works
  - For local see TC215+
- 330 General works
- 332 Beach nourishment
- 333 Breakwaters
- 335 Seawalls
- 337 Dikes, levees, embankments
  - For river levees see TC533
  - For canal embankments see TC759+
- 339 Dunes (as defense works)
- 339.8 Sand bypassing
- 340 Tree planting
- Reclamation and preservation of land from the sea. Polders
  - Cf. TC970+ Land drainage and reclamation of bogs, swamps, and lakes
- 343 General works
- 345.A-Z By region or country, A-Z
- Harbor engineering
  - Cf. HE550+ Economic aspects
  - Cf. SH337.5 Fishing port facilities
- 352 Approach channels
- 353 Sea locks
- 355 Docks
- 357 Piers, quays, and wharves
- 361 Drydocks
- 363 Floating harbors
  - Including floating docks, piers, etc.
- 365 Other special docks
- 370 Mechanical equipment of docks for cargo handling, etc.
  - Including cranes
  - For cargo handling, etc. see VK235
- 373 General special
  - Including mooring berths, fenders
- Lighthouses (Construction and equipment)
- 375 General works
- 377 Lights, lamps, etc.
- 379 Lenses
- 380 Buoys
- River, lake, and water-supply engineering (General)
  - Class here development of the water resources of a watershed
  - Cf. TD201+ Municipal water supply
- 401 Periodicals, societies, congresses, etc.
- 403 Dictionaries and encyclopedias
- General works
  - Early to 1800
  - 1800-
- 404 Popular works
- 405 Pocketbooks, tables, etc.
- 406 General special
  - Including estimation of value, simulation methods
- 407 Addresses, essays, lectures
- 411 Watershed management
- 413

- River, lake, and water-supply engineering (General) -- Continued  
 History and country divisions (Table T1 modified)  
 Add country number in table to TC400  
 Class here special rivers and lakes  
 Cf. GB1201+ Physical geography of rivers  
 Cf. HE380.8+ Economic aspects of waterways
- Special countries
- America
- North America
- United States
- 423 General works  
 423.3 Great Lakes  
 Including diversion of water from Lake Michigan
- Mississippi River  
 The detailed arrangement for Mississippi River should not be used for other rivers
- 425.M6 General works  
 425.M61 Conventions  
 Arrange by date
- 425.M62 Levees  
 425.M63A-.M63W Levees of special states, A-W  
 425.M65 Jetties  
 425.M66A-.M66W Special states, A-W  
 425.M67A-.M67Z Special cities, A-Z  
 e.g.  
 425.M67M5 Memphis
- Rivers of Canada
- 426 General works  
 426.5.A-Z Provinces, A-Z  
 427.A-Z Special rivers and lakes, A-Z  
 e.g.  
 427.S3 St. Lawrence River
- Europe
- Rivers of Great Britain
- 457 General works  
 464.A-Z Special rivers and lakes, A-Z  
 e.g.  
 464.T4 Thames
- Rivers of Austria
- 465 General works  
 465.2.A-Z Special rivers and lakes, A-Z  
 e.g.  
 465.2.D2 Danube
- Rivers of France
- 471 General works  
 472.A-Z Special rivers and lakes, A-Z  
 e.g.  
 472.S4 Seine
- Asia
- South Asia
- Rivers of India
- 503 General works  
 503.5.A-Z Provinces, etc., A-Z  
 504.A-Z Special rivers and lakes, A-Z  
 e.g.  
 504.I4 Indus River
- Rivers of Japan

- River, lake, and water-supply engineering (General)
  - History and country divisions
    - Special countries
      - Asia
        - Rivers of Japan -- Continued
          - 505 General works
          - 505.5.A-Z Prefectures, etc., A-Z
          - 506.A-Z Special rivers and lakes, A-Z
- 529 Stream channelization. Channel improvement
  - River protective works. Regulation. Flood control
    - For local see TC415+
    - Cf. HD1675+ Economic aspects
- 530 General works
- 531 Flood control channels
- 533 Levees
- 535 Jetties
- 537 Tree planting. Streambank planting
- Dams. Barrages
  - 540 General works
  - 541 Juvenile works
  - Damsite selection
    - 542 Dam geology
      - For the geology of damsites of special areas see TC556+
  - 542.5 Earthquakes and dams
  - Dam types
    - 543 Earthen dams
    - 545 Wooden dams
    - 547 Masonry dams. Concrete dams
    - 549 Other (not A-Z)
      - Including steel, movable, beartrap, needle
  - 550 Dam safety
    - For local see TC556+
  - 550.2 Dam failures
    - For local see TC556+
  - 553 Sluices and gates
  - 554 Trashracks
  - 555 Wasteways, spillways, weirs, etc.
  - Special countries
    - United States
      - 556 General works
      - 556.5.A-Z By region, A-Z
      - 557.A-.W By state, A-W
        - Under each:*
        - .x *General works*
        - .x2A-.x2Z *Special dams, A-Z*
        - e.g.
        - California
          - 557.C2 General works
          - 557.C3A-.C3Z Special dams, A-Z
            - e.g.
            - 557.C3O76 Oroville Dam
  - 557.3.A-Z By river, A-Z
    - Class here only rivers located in two or more states
    - e.g.
    - 557.3.P6 Potomac River

- Dams. Barrages  
 Special countries  
 United States -- Continued  
 557.5.A-Z Other special dams, A-Z  
     Class here only dams located in two states  
     e.g.  
 557.5.H6 Hoover Dam  
 558.A-Z Other regions or countries, A-Z  
     *Under each (unless otherwise specified):*  
     .x General works  
     .x2A-.x2Z Special dams, A-Z  
     e.g.  
 China  
 558.C5 General works  
 558.C52A-.C52Z Special dams, A-Z  
     e.g.  
 558.C52S26 San Xia Dam. Three Gorges Dam  
     Three Gorges Dam see TC558.C52S26  
 Egypt  
 558.E4 General works  
 558.E5A-.E5Z Special dams, A-Z  
     e.g.  
 558.E5A8 Aswan High Dam  
 Canals and inland navigation. Waterways  
     Cf. HE380.8+ Economic aspects  
     Cf. TC930 Irrigation canals  
 601 Periodicals, societies, etc.  
 605 Congresses  
 607 Collected works (nonserial)  
 615-727 History and country divisions (Table T1 modified)  
     Add country number in table to TC600  
     Class here special canals and locks  
 Special countries  
 America  
 North America  
 United States  
 623 Canals (General)  
 623.1 Great Lakes to Atlantic  
 623.2 Great Lakes to Gulf of Mexico  
 623.3 Mississippi to Atlantic  
     Intracoastal waterways  
 623.4 Atlantic  
 623.5 Gulf of Mexico  
 623.7 Miscellaneous general projects  
 624.A-.W Special states, A-W  
 625.A-Z Special canals and locks, A-Z  
     *Under each:*  
     .xA1-.xA3 Serial documents  
     .xA5 Special documents, by date  
     .xA6-.xZ General works  
     e.g.  
 625.E6 Erie Canal  
 625.M6 Middlesex Canal  
     Isthmian canals see TC773+  
 Europe  
 655 General works

- Canals and inland navigation. Waterways
  - History and country divisions
    - Special countries
      - Europe -- Continued
        - 656.A-Z Special projects, A-Z
          - e.g.
            - 656.R5 Rhine-Main-Danube Waterway
        - 664.A-Z Great Britain. England
          - Cities (or other special), A-Z
            - e.g.
              - 664.M2 Manchester Ship Canal
        - Balkan Peninsula
          - 695.B2 General works
          - 695.B23A-.B23Z Special projects, A-Z
            - e.g.
              - 695.B23D3 Danube-Aegean project
      - Africa
        - Egypt
          - 718.A-Z Local or special, A-Z
            - Suez Canal see TC791
  - General works
    - 744 Early to 1800
    - 745 1800-
    - 751 Pocketbooks, tables, etc.
    - 753 General special
    - 755 Addresses, essays, lectures
  - Special aspects
    - 759 Canal embankments
    - 761 Canal locks
      - For special locks see TC615+
    - 762 Canal gates
      - Including operating devices
    - 763 Lifts and inclines
    - 764 Canal aqueducts
    - 765 Canalboats
    - 766 Resistance of water
    - Motive power. Towing
      - 767 General works
      - 769 Mechanical and electrical
      - 770 Ship canals (General)
        - For economic studies, traffic statistics, etc. see HE380.8+
    - Ship and boat railways
      - 771 General works
      - 772 Special (except Tehuantepec)
        - Tehuantepec Ship Railway see TC786
  - Isthmian canal projects (General)
    - 773 General works
    - Panama Canal
      - 774 General works
        - For economic aspects see HE537+
      - 777 Operation of the canal
        - Cf. HE538.A1+ Administration of the canal
      - 777.5 Miscellaneous uncataloged matter
        - Compagnie universelle du canal interocéanique de Panama
      - 778 General works
      - 778.B9 Bulletin du canal interocéanique

## Canals and inland navigation. Waterways

## Isthmian canal projects (General)

## Panama Canal

## Compagnie universelle du canal interoceanique de Panama

(778.1)

Annual report of directors

see HE537.33

778.2

Annual report of chief engineer

778.3

Other serial reports

778.5

Special reports. By date

(778.7)

Charter, bylaws

see HE537.37

778.8

Other printed matter

## Compagnie nouvelle du canal de Panama

779

General works

779.B9

Bulletin

(779.1)

Annual report of directors

see HE537.43+

779.2

Annual report of chief engineer

779.3

Other serial reports

779.5

Special reports. By date

(779.7)

Charter, bylaws

see HE537.47

779.8

Other printed matter

780

The "Panama affair" and history of the companies

## Panama Exposition

## Preliminary

## United States

781.A1-.A3

Documents

781.A4A-.A4W

States, A-W

781.A5A-.A5Z

Cities, A-Z

781.A6A-.A6Z

Other regions or countries, A-Z

781.A7

Nonofficial. By author

## The Exposition

781.A8

Official guides

Histories and descriptions

781.B1

General works

781.B2

General special

781.C1

Collections of pictures, views, etc.

## Official publications

Acts of incorporation, rules, organization, etc.

781.D1

General works

781.D13

Translations of acts

Rules, regulations, etc.

781.D15

General works

781.D17

Translations of rules, regulations, etc.

781.D2

General reports, proceedings, etc., of governing board

781.D25

Reports of national (government) commission

781.D3

General reports of special boards, commissions, etc.

781.D4

Congressional hearings and reports of national government on appropriations, etc.

By date

781.D5

Special reports. By date

General catalogs

781.D6

Official. By date

781.D7

Nonofficial

Subarranged by author

781.D8

Reports and awards of jurors

- Canals and inland navigation. Waterways
  - Isthmian canal projects (General)
    - Panama Canal
      - Panama Exposition
        - The Exposition
          - Official publications -- Continued
          - Miscellaneous printed matter
- 781.D9 Official comprehensive reports on the exhibits by editorial commissions, etc. By date
- 781.E1 General official reports of other countries on exhibitions
  - For their own exhibits see TC781.G1
- 781.E1A-.E1Z Exhibits of the country in which the exhibition is held
  - 781.F1 Collective
    - Class here general only; special with subject
  - 781.F2 Government exhibit
  - 781.F3 State exhibits, etc.
  - 781.G1 Exhibits of other countries
    - Cf. TC781.E1A+ General official reports on exhibitions
  - 781.H1 Parts of the exposition
    - Works on various exhibits which cannot well be classified with any one subject, e. g. a work on an educational exhibit goes in class L, Education, subdivision Exhibits, but a work on Machinery hall is classed here
  - 781.K1 Exhibits arranged by names of exhibitors
    - Works on various exhibits which cannot well be classified with any one subject, e. g. a work on an educational exhibit goes in class L, Education, subdivision Exhibits, but a work on Machinery hall is classed here
  - 781.L1 Miscellaneous
    - Other than .A1-.K1
  - 781.N1 Congresses. General reports
- Other Isthmian canal projects
  - 784 Nicaragua Canal
  - 785 Tehuantepec Canal
  - 786 Tehuantepec Ship Railway
  - 788 Darien, Atrato and others
  - 791 Suez Canal
- Irrigation engineering. Reclamation of wasteland
  - Cf. HD1690+ Water rights
  - Cf. HD1710.2+ Economic situation, history, etc.
  - Cf. S604.8+ Agriculture
  - Cf. SB112 Irrigation farming
  - Cf. TC343+ Reclamation of land from the sea
- 801 Periodicals, societies, etc.
- 803 Congresses
- 804 Dictionaries and encyclopedias
- 805 General works
- 809 General special
- 812 Management of irrigation projects
- 815-927 History and country divisions (Table T1 modified)
  - Add country number in table to TC800
  - Special countries
    - Asia
      - South Asia
        - India
          - 903 General works
          - 904.4.A-Z Special projects, A-Z
          - 904.4.G2 Ganges Canal

- Irrigation engineering. Reclamation of wasteland -- Continued
- (927) Irrigation by pumping  
       see TC929
- Biography
- 928 Collective  
 928.2.A-Z Individual, A-Z
- 929 Irrigation pumps
- 930 Irrigation canals
- 933 Irrigation flumes and conduits
- 937 Gates and other incidental structures
- Flooding of deserts and wastelands
- 950 General works  
 Special  
 953 United States  
 955 Sahara  
 957.A-Z Other, A-Z
- Drainage  
       Cf. HD1681+ Economics, public policy, etc.  
       Cf. S621 Farmers' manuals
- 970 General works
- 973 Relief wells
- 974 Wellpoint system
- 974.2 Vertical drains
- 975 Reclamation of bogs, swamps, lakes, etc.  
       Cf. TC343+ Reclamation of land from the sea
- Country divisions
- United States
- 976 General works
- 977.A-Z Regions or states, A-Z
- 978.A-Z Other regions or countries, A-Z  
       Subarrange each country by Table T4a



	Ocean engineering
	Cf. GC1000+ Marine resources
	Cf. TN291.5 Ocean mining
1501	Periodicals, societies, etc.
1505	Congresses
1550	Directories
1645	General works
1650	General special
1655	Study and teaching
1657	Electricity in ocean engineering
1660	Patents
1662	Remotely operated vehicles
	Offshore structures
1665	General works
1670	Corrosion
1680	Models
	Compliant platforms
1700	General works
1702	Semi-submersible offshore structures
1703	Tension leg platforms
1800	Underwater pipelines

## Environmental technology. Sanitary engineering

Including the promotion and conservation of the public health, comfort, and convenience by the control of the environment

Cf. GE170+ Environmental policy

Cf. GF51 Human beings and the environment

Cf. RA565+ Environmental health

Cf. TA163 Sustainable engineering

Cf. TH6014+ Environmental engineering in buildings

## Periodicals and societies. By language of publication

1 English

2 French

3 German

4 Other languages (not A-Z)

5 Congresses

## Exhibitions. Museums

6.A1 General works

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

Subarrange each country by Table T4b

7 Collected works (nonserial)

9 Dictionaries and encyclopedias

12 Directories

## History

15 General works

16 Ancient

17 Medieval

18 Modern to 1800

19 Nineteenth century

20 Twentieth century

## Country and city subdivisions

Including municipal reports of public sanitary works

## America

21 General works

## North America

22 General works

## United States

23 General works

23.1 Eastern states. Atlantic coast

23.15 New England

23.2 Appalachian region

23.3 Great Lakes region

23.4 Midwest. Mississippi Valley

23.5 South. Gulf states

23.6 West

23.7 Northwest

23.8 Pacific coast

23.9 Southwest

24.A-.W States, A-W

e.g.

24.A4 Alaska

24.H3 Hawaii

25.A-Z Cities or other special, A-Z

## Canada

26.A1 General works

26.A6-Z Provinces, A-Z

27.A-Z Local (Cities, etc.), A-Z

27.5 Latin America

## Country and city subdivisions

## America -- Continued

## Mexico

- 28.A1 General works
- 28.A6-Z States, provinces, etc., A-Z
- 29.A-Z Local (Cities, etc.), A-Z

## Central America

- 30 General works
- 31.A-Z Special countries, A-Z

## South America

- 34 General works
- Argentina
- 36.A1 General works
- 36.A6-Z States, provinces, etc., A-Z
- 37.A-Z Local (Cities, etc.), A-Z

## Bolivia

- 38.A1 General works
- 38.A6-Z States, provinces, etc., A-Z
- 39.A-Z Local (Cities, etc.), A-Z

## Brazil

- 41.A1 General works
- 41.A6-Z States, provinces, etc., A-Z
- 42.A-Z Local (Cities, etc.), A-Z

## Chile

- 43.A1 General works
- 43.A6-Z States, provinces, etc., A-Z
- 44.A-Z Local (Cities, etc.), A-Z

## Colombia

- 45.A1 General works
- 45.A6-Z States, provinces, etc., A-Z
- 46.A-Z Local (Cities, etc.), A-Z

- 47 Ecuador
- 48 Guyana
- 49 Suriname
- 50 French Guiana
- 51 Paraguay
- 52 Peru
- 53 Uruguay
- 54 Venezuela

## Europe

- 55 General works
- Great Britain. England
- 57 General works
- 58.A-Z English counties or regions, A-Z
- Ireland
- 59 General works
- 59.2 Irish Free State. Ireland (Eire)
- 59.3 Northern Ireland
- 60.A-Z Special counties, A-Z
- Scotland
- 61 General works
- 62.A-Z Special counties, A-Z
- 63 Wales
- 64.A-Z Cities or other special, A-Z
- Austria
- 65.A1 General works

## Country and city subdivisions

## Europe

## Austria -- Continued

65.A6-Z States, provinces, etc., A-Z  
 65.2.A-Z Local (Cities, etc.), A-Z

## Czechoslovakia

65.3.A1 General works  
 65.3.A6-Z States, provinces, etc., A-Z  
 65.4.A-Z Local (Cities, etc.), A-Z

## Hungary

65.5 General works  
 65.9.A-Z Special counties, A-Z  
 66.A-Z Cities or other special, A-Z

## Belgium

67.A1 General works  
 67.A6-Z States, provinces, etc., A-Z  
 68.A-Z Local (Cities, etc.), A-Z

## Denmark

69.A1 General works  
 69.A6-Z States, provinces, etc., A-Z  
 70.A-Z Local (Cities, etc.), A-Z

## France

71.A1 General works  
 71.A6-Z States, provinces, etc., A-Z  
 72.A-Z Local (Cities, etc.), A-Z  
 72.5 Colonies (Collectively)

## Germany

73 General works  
 73.1 East Germany. Eastern Germany  
 73.2 Baden-Württemberg  
 73.3 Bavaria  
 73.4 Hesse  
 73.5 Prussia  
 73.6 Saxony  
 73.7 North Rhine-Westphalia  
 73.9.A-Z Other states, A-Z  
 74.A-Z Cities or other special, A-Z  
 74.5 Colonies (Collectively)

## Greece

75.A1 General works  
 75.A6-Z States, provinces, etc., A-Z  
 76.A-Z Local (Cities, etc.), A-Z

## Netherlands

77.A1 General works  
 77.A6-Z States, provinces, etc., A-Z  
 78.A-Z Local (Cities, etc.), A-Z

## Italy

79.A1 General works  
 79.A6-Z States, provinces, etc., A-Z  
 80.A-Z Local (Cities, etc.), A-Z  
 80.5

## Malta

## Norway

81.A1 General works  
 81.A6-Z States, provinces, etc., A-Z  
 82.A-Z Local (Cities, etc.), A-Z

Portugal, Azores, etc.

## Country and city subdivisions

## Europe

Portugal, Azores, etc. -- Continued

83.A1 General works  
 83.A6-Z States, provinces, etc., A-Z  
 84.A-Z Local (Cities, etc.), A-Z  
 84.5 Colonies (Collectively)

Russia in Europe

85.A1 General works  
 85.A6-Z States, provinces, etc., A-Z  
 86.A-Z Local (Cities, etc.), A-Z

Spain

87.A1 General works  
 87.A6-Z States, provinces, etc., A-Z  
 88.A-Z Local (Cities, etc.), A-Z  
 88.5 Scandinavia

Sweden

89.A1 General works  
 89.A6-Z States, provinces, etc., A-Z  
 90.A-Z Local (Cities, etc.), A-Z

Switzerland

91.A1 General works  
 91.A6-Z States, provinces, etc., A-Z  
 92.A-Z Local (Cities, etc.), A-Z

Other regions and countries, A-Z

95.A2 Balkan Peninsula  
 95.A38 Albania  
 95.A44 Alps  
 95.A48 Andorra  
 95.B3 Baltic Sea  
 95.B43 Belarus  
 95.B45 Benelux countries  
 95.B9 Bulgaria  
 95.C37 Carpathian Mountains  
 95.D35 Danube River  
 95.F5 Finland  
 95.I43 Iceland  
 95.L285 Lapland  
 95.L37 Latvia  
 95.L78 Lithuania  
 95.L9 Luxemburg  
 95.M4 Mediterranean Region  
 95.N67 North Sea  
 95.P7 Poland  
 95.P75 Pomerania (Poland and Germany)  
 95.R48 Rhine River  
 95.R6 Romania  
 95.S55 Slovenia  
 95.T48 Thrace  
 95.U95 Ukraine  
 95.Y8 Yugoslavia

## Asia

99 General works  
 China  
 For Hong Kong see TD113.H85  
 101.A1 General works

## Country and city subdivisions

## Asia

## China -- Continued

- 101.A6-Z States, provinces, etc., A-Z
- 102.A-Z Local (Cities, etc.), A-Z

## Taiwan

- 102.5.A1 General works
- 102.5.A6-Z States, provinces, etc., A-Z
- 102.6.A-Z Local (Cities, etc.), A-Z

## South Asia

- 102.9 General works
- India

- 103.A1 General works
- 103.A6-Z States, provinces, etc., A-Z
- 104.A-Z Local (Cities, etc.), A-Z

## Pakistan

- 104.5.A1 General works
- 104.5.A6-Z States, provinces, etc., A-Z
- 104.6.A-Z Local (Cities, etc.), A-Z

## Bangladesh

- 104.65.A1 General works
- 104.65.A6-Z States, provinces, etc., A-Z
- 104.66.A-Z Local (Cities, etc.), A-Z

## Sri Lanka. Ceylon

- 104.7.A1 General works
- 104.7.A6-Z States, provinces, etc., A-Z
- 104.8.A-Z Local (Cities, etc.), A-Z

## Japan

- 105.A1 General works
- 105.A6-Z States, provinces, etc., A-Z
- 106.A-Z Local (Cities, etc.), A-Z

## Korea

## Including South Korea

- 106.5.A1 General works
- 106.5.A6-Z States, provinces, etc., A-Z
- 106.6.A-Z Local (Cities, etc.), A-Z

## North Korea

- 106.7.A1 General works
- 106.7.A6-Z States, provinces, etc., A-Z
- 106.8.A-Z Local (Cities, etc.), A-Z

## Iran. Persia

- 107.A1 General works
- 107.A6-Z States, provinces, etc., A-Z
- 108.A-Z Local (Cities, etc.), A-Z

## Russia in Asia. Siberia

- 109.A1 General works
- 109.A6-Z States, provinces, etc., A-Z
- 110.A-Z Local (Cities, etc.), A-Z

## Turkey. Asia Minor

- 111.A1 General works
- 111.A6-Z States, provinces, etc., A-Z
- 112.A-Z Local (Cities, etc.), A-Z

## Other divisions of Asia, A-Z

- 113.A3 Afghanistan
- 113.B54 Borneo
- 113.B7 Brunei

## Country and city subdivisions

## Asia

## Other divisions of Asia, A-Z -- Continued

- 113.B8 Burma. Myanmar
- 113.C16 Cambodia
- 113.C9 Cyprus
- 113.G39 Gaza Strip
- 113.H85 Hong Kong
- 113.I55 Indonesia
- 113.I7 Iraq
- 113.I75 Israel
- 113.J6 Jordan
- 113.K85 Kuwait
- 113.L28 Laos
- 113.L4 Lebanon
- 113.M2 Macau
- 113.M318 Malaya
- 113.M32 Malaysia
- 113.M45 Mekong River Valley
- 113.N4 Myanmar see TD113.B8
- 113.P6 Nepal
- 113.P6 Philippines
- 113.Q36 Qatar
- 113.S33 Saudi Arabia
- 113.S53 Singapore
- 113.S6 Southeast Asia
- 113.S94 Syria
- 113.T48 Thailand
- 113.U54 United Arab Emirates
- 113.V5 Vietnam
- 113.W48 West Bank
- 113.Y45 Yemen (People's Democratic Republic)

## Middle East

- 114 Arab countries
- 114.5 Islamic countries

## Africa

- 115 General works
- Egypt
  - 117.A1 General works
  - 117.A6-Z States, provinces, etc., A-Z
  - 118.A-Z Local (Cities, etc.), A-Z
- 119.A-Z Other divisions of Africa, A-Z
  - 119.A4 Algeria
  - 119.A5 Angola
  - 119.B57 Botswana
  - 119.B85 Burundi
  - 119.C17 Cameroon
  - 119.C42 Central Africa
  - 119.C43 Central Africa Republic
  - 119.C75 Congo (Brazzaville)
  - Congo (Democratic Republic) see TD119.Z3
  - Côte d'Ivoire see TD119.I9
- 119.D3 Dahomey
- 119.D55 Djibouti
- 119.E18 East Africa
- 119.E19 Eastern Africa

## Country and city subdivisions

## Africa

## Other divisions of Africa, A-Z -- Continued

- 119.E77 Eswatini  
 119.E8 Ethiopia  
 119.F82 French-speaking Equatorial Africa  
 119.F83 French-speaking West Africa  
 119.G23 Gabon  
 119.G45 Ghana  
 119.G92 Guinea  
 119.G94 Guinea-Bissau  
 119.I9 Ivory Coast. Côte d'Ivoire  
 119.K4 Kenya  
 119.L45 Lesotho  
 119.L49 Liberia  
 119.L74 Libya  
 119.M28 Madagascar  
 119.M3 Malawi  
 119.M34 Mali  
 119.M39 Mauritania  
 119.M6 Morocco  
 119.M85 Mozambique  
 Namibia see TD119.S68  
 119.N53 Niger  
 119.N54 Nigeria  
 119.N6 Nile River Valley  
 119.R45 Rhodesia, Southern. Zimbabwe  
 119.R9 Rwanda  
 119.S18 Sahel  
 119.S38 Senegal  
 119.S5 Sierra Leone  
 119.S59 Somalia  
 119.S6 South Africa  
 119.S64 Southern Africa  
 119.S68 Southwest Africa. Namibia  
 119.S73 Sub-Saharan Africa  
 119.S74 Sudan  
 (119.S87) Swaziland  
     see TD119.E77  
 119.T35 Tanzania  
 119.T64 Togo  
 119.T8 Tunisia  
 119.U4 Uganda  
 119.U66 Upper Volta  
 119.W48 West Africa  
 119.Z3 Zaire. Congo (Democratic Republic)  
 119.Z34 Zambia  
     Zimbabwe see TD119.R45
- Indian Ocean islands  
 120 General works  
 120.5.A-Z Special islands, A-Z  
 120.5.M38 Mauritius  
 120.5.R48 Réunion
- Australasia  
 120.7 General works  
     Australia



- Country and city subdivisions
  - Australasia
    - Australia -- Continued
      - 121.A1 General works
      - 121.A6-Z States, provinces, etc., A-Z
      - 122.A-Z Local (Cities, etc.), A-Z
    - New Zealand
      - 122.5.A1 General works
      - 122.5.A6-Z States, provinces, etc., A-Z
      - 122.6.A-Z Local (Cities, etc.), A-Z
    - 122.7 Papua New Guinea
  - Pacific islands
    - 123 General works
    - 124.A-Z By island, A-Z
  - Arctic regions
    - 125 General works
    - 125.5 Greenland
  - 126 Antarctica
  - 126.5 Tropics
  - 127 Developing countries
- Biography
  - 139 Collective
  - 140.A-Z Individual, A-Z
- General works
  - 144 Early through 1850
  - 145 1851-
  - 146 Elementary textbooks
  - 148 Popular works
  - 151 Pocketbooks, tables, etc.
  - 152 Estimates and costs
  - 153 General special
  - 155 Addresses, essays, lectures
  - 156 Environmental and sanitary engineering as a profession
- Study and teaching
  - 157 General works
  - 157.15 Problems, exercises, etc.
  - By region or country
    - United States
      - 157.2 General works
      - 157.3.A-Z By region or state, A-Z
        - Subarrange each country by Table T4a
      - 157.4.A-Z Other regions or countries, A-Z
        - Subarrange each country by Table T4a
  - 157.5 Research
- 158 Remote sensing
- Municipal engineering
  - Cf. GV421+ Playgrounds
  - Cf. HD7285+ Housing
  - Cf. SB481.A1+ Parks
  - Cf. TE1+ Streets and roads
  - Cf. TH350 Engineering of the subdivision
- 159.A1 Periodicals, societies, congresses, etc.
- 159.A5-Z General works
- 159.3 General special
- By region or country see TD21+
- 159.4 Smart cities

- Municipal engineering -- Continued
- 159.5 Department organization and management  
 Planning and laying out cities  
     Cf. HT165.5+ City planning (Urban sociology)  
     Cf. HT170+ Urban renewal  
     Cf. NA9000+ City planning (Architecture)
- 160 General works
- 163 General special
- 167 City surveying
- 168 Underground utility lines
- 168.5 Climatic factors
- Environmental protection  
     Cf. GE170+ Environmental policy
- 169 Periodicals, societies, congresses, etc.
- 169.3 Dictionaries and encyclopedias
- 169.5 Information services
- 169.6 Directories
- 170 General works
- 170.15 Juvenile works
- 170.2 General special
- 170.3 Addresses, essays, lectures  
 Study and teaching
- 170.6 General works  
     By region or country
- 170.7 United States
- 170.8.A-Z Other regions or countries, A-Z
- Research
- 170.9 General works  
     By region or country
- 170.93 United States
- 170.94.A-Z Other regions or countries, A-Z
- Special regions or countries
- United States
- 171 General works
- 171.3.A-Z By region or state, A-Z  
     Subarrange each state by Table T4a
- 171.5.A-Z Other regions or countries, A-Z  
     Subarrange each country by Table T4a
- 171.7 Citizen participation
- 171.75 Climate change mitigation
- 171.8 Decision making
- 171.9 Environmental geotechnology
- Environmental pollution  
     Including its control  
     Class special types of pollution with the type, e.g. GC1080+ Marine pollution; TD196.R3  
     Radioactive pollution; TD419+ Water pollution; TD881+ Air pollution; TD891+ Noise pollution,  
     etc.  
     Cf. SB744.5+ Crops and pollution
- 172 Periodicals, societies, etc.
- 172.5 Congresses
- 173 Dictionaries and encyclopedias
- 173.5 Directories
- 174 General works
- 175 Popular works
- 176 Juvenile works
- 176.4 Pocketbooks, tables, etc.

- Environmental pollution -- Continued
- 176.7 Addresses, essays, lectures
- 177 General special
- 177.8 Vocational guidance for pollution control personnel
- Study and teaching
- 178 General works
- Special countries
- 178.3 United States
- 178.4.A-Z Other countries, A-Z
- Research
- 178.5 General works
- Special countries
- 178.6 United States
- 178.7.A-Z Other countries, A-Z
- Environmental laboratories
- 178.8.A1 General works
- 178.8.A2-Z By region or country, A-Z
- Under each country:*
- |           |                                      |
|-----------|--------------------------------------|
| .x        | <i>General works</i>                 |
| .x2A-.x2Z | <i>By state, province, etc., A-Z</i> |
| .x3A-.x3Z | <i>Special. By city, A-Z</i>         |
- 179 History
- Special countries
- North America
- 179.5 General works
- United States
- 180 General works
- 181.A-Z By region or state, A-Z
- Subarrange each country by Table T4a
- Canada
- 182 General works
- 182.4.A-Z By region or province, A-Z
- Subarrange each province by Table T4a
- Mexico
- 182.6 General works
- 182.7.A-Z By region or state, A-Z
- Subarrange each state by Table T4a
- Central America
- 183 General works
- 183.5.A-Z By country, A-Z
- Subarrange each country by Table T4a
- West Indies
- 184 General works
- 184.5.A-Z By country, A-Z
- Subarrange each country by Table T4a
- South America
- 185 General works
- 185.5.A-Z By country, A-Z
- Subarrange each country by Table T4a
- Europe
- 186 General works
- 186.5.A-Z By country, A-Z
- Subarrange each country by Table T4a
- Asia
- 187 General works

	Environmental pollution
	Special countries
	Asia -- Continued
187.5.A-Z	By country, A-Z
	Subarrange each country by Table T4a
	Africa
188	General works
188.5.A-Z	By country, A-Z
	Subarrange each country by Table T4a
	Oceania
189	General works
189.5.A-Z	By country, A-Z
	Subarrange each country by Table T4a
	e.g.
189.5.A8	Australia (Table T4a)
189.5.N4	New Zealand (Table T4a)
	Polar regions
190	General works
190.5	Arctic regions
190.7	Antarctica
191	Developing countries
	Pollution control methods
191.5	General works
192	Equipment and supplies
	Special methods
	Chemical treatment
192.2	General works
192.3	Catalysis
192.35	Electrochemical treatment
	Including electrokinetic remediation
	Class here general works on electrical techniques for pollution prevention; for electrical techniques for special types of pollution, see the type, e.g. TD757 electrolytic treatment of sewage
192.4	Lime treatment
192.45	Oxidation
	Biological treatment. Bioremediation
192.5	General works
192.6	Fertilization
192.7	Seeding
192.72	Fungal remediation
192.75	Phytoremediation
192.8	In situ remediation
	Measurement of pollution. Sampling and analysis. Environmental chemistry
	For measurement or analysis of specific pollutants see TD196.A+
193	General works
(193.2)	Environmental indicators
	see GE140+
193.3	Cross-media pollution
193.4	Environmental forensics
193.5	Risk assessment
	Cf. GE145+ Environmental risk assessment

- Environmental effects of industries and plants
  - Cf. HD30.255 Environmental aspects of industrial management
  - Cf. TD419+ Water pollution
  - Cf. TD881+ Air pollution
  - Cf. TD891+ Noise pollution
  - Cf. TD896+ Industry and factory wastes
- 194 General works
- 194.4 General special
- Environmental impact statements
- 194.5 General works
  - By region or country
    - United States
      - 194.55 General works
      - 194.56.A-Z By region or state, A-Z
        - Subarrange each state by Table T4a
      - 194.58.A-Z Other regions or countries, A-Z
        - Subarrange each country by Table T4a
- Environmental impact analysis
- 194.6 General works
- 194.64 Study and teaching
  - By region or country
    - United States
      - 194.65 General works
      - 194.66.A-Z By region or state, A-Z
        - Subarrange each state by Table T4a
      - 194.68.A-Z Other regions or countries, A-Z
        - Subarrange each country by Table T4a
- Environmental auditing
- 194.7 General works
  - Environmental reporting
- 194.8 General works
  - By region or country, A-Z
- 194.83.A-Z
- 195.A-Z Special industries, facilities, activities, etc., A-Z
- 195.A27 Aeronautics
  - Including air transportation
- 195.A33 Aggregate industry
- 195.A34 Agriculture
  - Class here works on agricultural pollution, i.e. agriculture as a source of pollution
  - Cf. S589.7 Agricultural ecology
  - Cf. S589.75+ Agriculture and the environment
  - Cf. TD930+ Agricultural wastes
- 195.A36 Airports
- 195.A37 Aluminum industry. Bauxite industry
- 195.A44 Ammonia industry
- Amphitheaters see TD195.S68
- Architectural engineering see TD195.C595
- 195.A75 Armed Forces
- Atomic power plants see TD195.E4
- 195.B34 Ballistic missile defenses
- Baseball fields see TD195.S68
- Bauxite industry see TD195.A37
- 195.B56 Biomass energy
- 195.B58 Biotechnology
- 195.B63 Boats and boating
- 195.B74 Bridges
- 195.B84 Building materials industry

## Environmental effects of industries and plants

## Special industries, facilities, activities, etc., A-Z -- Continued

- 195.B87 Business parks
- 195.C38 Cell phone systems
- 195.C42 Ceramic industries
- 195.C45 Chemical plants
- 195.C47 Church facilities
- 195.C54 Civil engineering
- 195.C58 Coal mines and mining
- 195.C59 Cobalt mines and mining
- 195.C595 Construction industry
- 195.C6 Cooling towers
- Correctional institutions see TD195.P74
- 195.D35 Dams
- 195.D5 Diamond mines and mining
- 195.D53 Diaper industry
- 195.D72 Dredging
- 195.D78 Drug factories
- 195.E25 Economic development
- 195.E37 Electric lines. Telecommunication lines
- 195.E4 Electric power plants
  - Cf. SH173 Effect on fish culture
- 195.E43 Electrochemistry, Industrial
- 195.E45 Electroplating
- Elementary school buildings see TD195.S33
- 195.E49 Energy development
- 195.E5 Energy facilities
- 195.F46 Fertilizer industry
- 195.F52 Fishery processing industries
- 195.F57 Food industry
- Football stadiums see TD195.S68
- Forestry see SD387.E58
- 195.F6 Foundries
- 195.G3 Gas industry
- 195.G46 Geothermal power plants
- 195.G57 Glass manufacture
- 195.G64 Gold industry
- 195.G66 Golf courses
- 195.H39 Hazardous waste management industry
- High school buildings see TD195.S33
- 195.H54 High technology industries
- Horse racetracks see TD195.R26
- 195.H66 Hospitals
- 195.H67 Hotels. Office buildings
- 195.H93 Hydraulic engineering
- 195.I52 Incineration
- 195.I54 Industrial districts
- 195.I76 Ironworks
- Jails see TD195.P74
- 195.J48 Jetties
- 195.L4 Leather industry
- 195.L52 Lighting
  - Including the environmental effects of light pollution
- 195.L53 Lignite industry
- 195.L55 Limestone industry
- 195.M33 Magnesium industry and trade

## Environmental effects of industries and plants

## Special industries, facilities, activities, etc., A-Z -- Continued

- 195.M37      Marinas
- 195.M39      Marine terminals
- 195.M42      Metalworking industries
- 195.M45      Military aeronautics
- 195.M46      Military bases
  - For navy-yards and naval stations see TD195.N38
- 195.M48      Mine subsidences
- 195.M5        Mineral industries
- 195.M67      Motorsports
- 195.N38      Navy-yards and naval stations
- 195.N47      New towns
- 195.N65      Nonferrous metal industries
- 195.N83      Nuclear facilities (General)
  - Cf. TD195.E4 Electric power plants
- Nuclear power plants see TD195.E4
- 195.N85      Nuclear weapons plants
- 195.O25      Ocean mining
- Office buildings see TD195.H67
- 195.O4        Oil-shale industry
- 195.P26      Package goods industry
- 195.P35      Paint industry
- 195.P36      Palm oil industry
- 195.P37      Paper and pulp mills
- 195.P375     Parking facilities
  - Including parking lots and parking garages
- 195.P38      Peat mining
- 195.P39      Petrochemicals industry
- 195.P4        Petroleum industry
  - Cf. TD427.P4 Water pollution
  - Cf. TD888.P4 Air pollution
- 195.P46      Phosphate mines and mining
- 195.P47      Phosphatic fertilizer industry
- 195.P5        Pipelines
- 195.P516     Planned unit developments
- 195.P52      Plastics industry
- 195.P64      Police stations
- Power resource development see TD195.E49
- 195.P7        Printing industry
- 195.P74      Prisons. Jails. Correctional institutions
- 195.P76      Proving grounds
- 195.P82      Public housing
- Public school closings see TD195.S333
- 195.P83      Public utilities
- 195.Q3        Quarries and quarrying
- 195.R26      Racetracks (Horse racing)
- 195.R33      Railroads
- 195.R34      Rainmaking
- 195.R4        Reactor fuel reprocessing plants
- 195.R45      Research natural areas
- 195.R47      Reservoirs
- 195.R49      Resource recovery facilities
- 195.R493     Retail trade
  - Including retail stores
- 195.R495     Retirement communities

## Environmental effects of industries and plants

## Special industries, facilities, activities, etc., A-Z -- Continued

- 195.R53 Rifle ranges  
 195.R63 Roads  
 195.S26 Salt mines and mining  
 195.S3 Sand and gravel industry  
 195.S33 School buildings  
     Including elementary school buildings and high school buildings  
 195.S333 School closings  
     Including public school closings  
 195.S36 Scrap metal industry  
 195.S47 Sewage disposal plants  
 195.S52 Shopping centers  
 195.S54 Silicon industry  
 195.S57 Ski resorts  
     Soccer fields see TD195.S68  
 195.S64 Solar energy  
 195.S65 Spillways  
 195.S68 Stadiums. Amphitheaters  
     Including baseball fields, football stadiums, and soccer fields  
 195.S7 Steelworks  
     Stores, Retail see TD195.R493  
 195.S75 Strip mining  
     Cf. QH545.S84 Ecology  
 195.S9 Subways  
 195.S93 Sugar cane industry  
 195.S95 Synthetic fuels industry  
 195.T35 Tanneries  
     Telecommunication lines see TD195.E37  
 195.T48 Textile industry  
 195.T56 Tin mines and mining  
 195.T68 Tourist trade  
 195.T69 Toy industry  
 195.T7 Transportation  
     Cf. TD195.R63 Roads  
     Cf. TD195.S9 Subways  
 195.U7 Uranium industry  
 195.W29 War  
 195.W295 Waste disposal sites  
 195.W3 Water-supply engineering  
 195.W54 Wind power industry  
 195.W6 Wood-using industries
- Special environmental pollutants  
 Acid precipitation. Acid rain. Acid deposition  
     Cf. QC926.5+ Meteorological aspects  
 195.4 Periodicals, societies, congresses, etc.  
 195.42 General works  
 195.44 Juvenile works  
 195.46 Handbooks, manuals, etc.  
     By region or country  
       United States  
         General works  
         By region or state, A-Z  
           Subarrange each state by Table T4a  
         Other regions or countries, A-Z  
           Subarrange each country by Table T4a



	Special environmental pollutants
	Acid precipitation. Acid rain -- Continued
195.56.A-Z	Special topics, A-Z
	For local see TD195.5+
195.56.E35	Economic aspects
196.A-Z	Other environmental pollutants, A-Z
196.A2	Acetates
196.A22	Acetic acid
196.A34	Agricultural chemicals
196.A75	Aromatic compounds
196.A77	Arsenic
196.A78	Asbestos
196.B38	Benzene
196.B4	Benzpyrene
196.B85	Building materials
196.C28	Cadmium
	Calcium oxide see TD196.L55
196.C33	Carbolic acid
196.C45	Chemicals
196.C5	Chlorine compounds
196.C53	Chromium
196.C63	Coal
	Contaminated processed metals see TD196.M4
196.C93	Cyanides
196.C94	Cyclododecane
196.C95	Cyclohexane
196.D48	Detergents
	Cf. RA1242.D4 Toxicology of detergents
	Cf. TD427.D4 Detergent pollution of water
196.D56	Dioxins
196.D78	Drugs
196.E86	Ethylene oxide
196.F47	Fertilizers
196.F54	Fluorine compounds
196.F55	Fluorocarbons
	Cf. TD887.F67 Fluorocarbon pollution of air
196.F65	Formaldehyde
196.F67	Fossil fuels
	Cf. TD887.F69 Fossil fuel pollution of air
196.F85	Fumigants
196.H35	Halogen organic compounds
196.H4	Heat
	Cf. TD427.H4 Heat pollution of water
196.H43	Heavy elements
	Heavy metals see TD196.M4
196.H47	Herbicides
196.H94	Hypochlorites
196.L4	Lead
196.L55	Lime
196.M38	Mercury
	Cf. TD427.M4 Mercury pollution of water
	Cf. TD887.M37 Mercury pollution of air
196.M4	Metals. Heavy metals. Contaminated processed metals
	Cf. TD427.M44 Heavy metal pollution of water
196.M48	Methoxychlor
196.N36	Nanoparticles. Nanostructured materials

## Special environmental pollutants

## Other environmental pollutants, A-Z -- Continued

- 196.N48 Nickel  
 196.N55 Nitrogen and nitrogen compounds  
 196.O73 Organic compounds  
 196.O75 Organolead compounds  
 196.O76 Organometallic compounds  
 196.O95 Oxidizing agents  
 196.P28 Palladium  
 196.P36 Peroxyacetyl nitrate  
 196.P38 Pesticides  
     Cf. QH545.P4 Effect on plants and animals  
 196.P4 Petroleum  
     Cf. TD427.P4 Petroleum pollution of water  
     Cf. TD879.P4 Petroleum pollution of soil  
 196.P45 Phosphates  
 196.P46 Phosphogypsum  
 196.P47 Phthalate esters  
 196.P5 Plastics  
     Cf. TD798 Plastic waste  
 196.P53 Platinum group  
 196.P65 Polychlorinated biphenyls  
 196.P67 Polyethylene glycols  
 196.R3 Radioactive pollution  
     Cf. TD427.R3 Radioactive pollution of water  
     Cf. TD812+ Municipal radioactive wastes  
     Cf. TD879.R34 Radioactive pollution of soils  
     Cf. TD887.R3 Radioactive substances in air  
     Cf. TD898 Radioactive substances in air  
 196.R33 Radon  
 196.S48 Silver  
 196.S52 Sodium hydroxide  
 196.S54 Solvents  
 196.S56 Soot  
 196.S95 Sulfur  
 196.T45 Thallium  
 196.T7 Trace elements  
 196.T74 Tritium  
 196.U73 Urea  
 196.V35 Vanadium  
 196.W66 Wood waste  
 196.Z56 Zinc

## Water supply for domestic and industrial purposes

Class here works on the supplying of usable water to consumers, including works on the water-supply systems and available resources of specific localities and works dealing with both water supply and sewerage

For water supply in specific industries, see the industry, e.g. TS1116.2 Paper industry

For works describing the hydrology of a region without regard to development see GB651+

For water supply and public health see RA591+

For general works on water-supply engineering (including the design and construction of works to procure water), as well as works on the development of the water resources of a watershed see TC401+

For rural water supply see TD927

## Periodicals. Societies. Congresses. By language of publication

- 201 English  
 202 French

- Water supply for domestic and industrial purposes  
 Periodicals. Societies. Congresses. By language of publication -- Continued
- 203 German
  - 204 Other languages (not A-Z)
  - 208 Dictionaries and encyclopedias
  - Communication of water supply information
  - 209 General works
  - 211 Information services
  - History
  - 215 General works
  - 216 Ancient
  - 217 Medieval
  - 218 Modern
  - 219 Nineteenth century
  - 220 Twentieth century
  - 220.2 Twenty-first century
  - Country subdivisions
  - Including all local or departmental reports
  - America
  - 221 General works
  - North America
  - 222 General works
  - United States
  - 223 General works
  - 223.1 Eastern states. Atlantic coast
  - 223.13 Northeastern states
  - 223.15 New England
  - 223.17 Middle Atlantic states
  - Including the Chesapeake Bay region
  - 223.2 Appalachian region
  - 223.3 Great Lakes region
  - 223.4 Midwest. Mississippi Valley
  - 223.5 South. Gulf states
  - 223.6 West
  - 223.7 Northwest
  - 223.8 Pacific coast
  - 223.9 Southwest
  - 224.A-.W States, A-W
  - e.g.
  - 224.A4 Alaska
  - 224.H3 Hawaii
  - 225.A-Z Cities or other special, A-Z
  - Canada
  - 226 General works
  - 227.A-Z Provinces (or other special), A-Z
  - 227.5 Latin America
  - Mexico
  - 228.A1 General works
  - 228.A6-Z States, provinces, etc., A-Z
  - 229.A-Z Local (Cities, etc.), A-Z
  - Central America
  - 230 General works
  - 231.A-Z Special countries, A-Z
  - West Indies
  - 232 General works
  - 233.A-Z Special islands, A-Z

## Water supply for domestic and industrial purposes

## Country and city subdivisions

## America -- Continued

## South America

- 234 General works
- Argentina
- 236.A1 General works
- 236.A6-Z States, provinces, etc., A-Z
- 237.A-Z Local (Cities, etc.), A-Z
- Bolivia
- 238.A1 General works
- 238.A6-Z States, provinces, etc., A-Z
- 239.A-Z Local (Cities, etc.), A-Z
- Brazil
- 241.A1 General works
- 241.A6-Z States, provinces, etc., A-Z
- 242.A-Z Local (Cities, etc.), A-Z
- Chile
- 243.A1 General works
- 243.A6-Z States, provinces, etc., A-Z
- 244.A-Z Local (Cities, etc.), A-Z
- Colombia
- 245.A1 General works
- 245.A6-Z States, provinces, etc., A-Z
- 246.A-Z Local (Cities, etc.), A-Z
- 247 Ecuador
- 248 Guyana
- 249 Suriname
- 250 French Guiana
- 251 Paraguay
- 252 Peru
- 253 Uruguay
- 254 Venezuela
- Europe
- 255 General works
- Great Britain. England
- 257 General works
- 258.A-Z English counties or regions, A-Z
- Ireland
- 259 General works
- 259.2 Irish Free State. Ireland (Eire)
- 259.3 Northern Ireland
- 260.A-Z Special counties, A-Z
- Scotland
- 261 General works
- 262.A-Z Special counties, A-Z
- 263 Wales
- 264.A-Z Cities or other special, A-Z
- Austria
- 265.A1 General works
- 265.A6-Z States, provinces, etc., A-Z
- 265.2.A-Z Local (Cities, etc.), A-Z
- Czechoslovakia
- 265.3.A1 General works
- 265.3.A6-Z States, provinces, etc., A-Z
- 265.4.A-Z Local (Cities, etc.), A-Z

## Water supply for domestic and industrial purposes

## Country and city subdivisions

## Europe -- Continued

## Hungary

- 265.5 General works
- 265.9.A-Z Special counties, A-Z
- 266.A-Z Cities or other special, A-Z

## Belgium

- 267.A1 General works
- 267.A6-Z States, provinces, etc., A-Z
- 268.A-Z Local (Cities, etc.), A-Z

## Denmark

- 269.A1 General works
- 269.A6-Z States, provinces, etc., A-Z
- 270.A-Z Local (Cities, etc.), A-Z

## France

- 271.A1 General works
- 271.A6-Z States, provinces, etc., A-Z
- 272.A-Z Local (Cities, etc.), A-Z
- 272.5 Colonies (Collectively)

## Germany

- 273 General works
- 273.1 East Germany. Eastern Germany
- 273.2 Baden-Württemberg
- 273.3 Bavaria
- 273.4 Hesse
- 273.5 Prussia
- 273.6 Saxony
- 273.7 North Rhine-Westphalia
- 273.9.A-Z Other states, A-Z
- 274.A-Z Cities or other special, A-Z
- 274.5 Colonies (Collectively)

## Greece

- 275.A1 General works
- 275.A6-Z States, provinces, etc., A-Z
- 276.A-Z Local (Cities, etc.), A-Z

## Netherlands

- 277.A1 General works
- 277.A6-Z States, provinces, etc., A-Z
- 278.A-Z Local (Cities, etc.), A-Z

## Italy

- 279.A1 General works
- 279.A6-Z States, provinces, etc., A-Z
- 280.A-Z Local (Cities, etc.), A-Z
- 280.5

## Malta

## Norway

- 281.A1 General works
- 281.A6-Z States, provinces, etc., A-Z
- 282.A-Z Local (Cities, etc.), A-Z

## Portugal, Azores, etc.

- 283.A1 General works
- 283.A6-Z States, provinces, etc., A-Z
- 284.A-Z Local (Cities, etc.), A-Z
- 284.5 Colonies (Collectively)

## Russia in Europe

- 285.A1 General works

## Water supply for domestic and industrial purposes

## Country and city subdivisions

## Europe

## Russia in Europe -- Continued

285.A6-Z States, provinces, etc., A-Z

286.A-Z Local (Cities, etc.), A-Z

## Spain

287.A1 General works

287.A6-Z States, provinces, etc., A-Z

288.A-Z Local (Cities, etc.), A-Z

288.5

## Scandinavia

## Sweden

289.A1 General works

289.A6-Z States, provinces, etc., A-Z

290.A-Z Local (Cities, etc.), A-Z

## Switzerland

291.A1 General works

291.A6-Z States, provinces, etc., A-Z

292.A-Z Local (Cities, etc.), A-Z

295.A-Z Other regions and countries, A-Z

295.A2 Balkan Peninsula

295.A38 Albania

295.A44 Alps

295.A48 Andorra

295.B3 Baltic Sea

295.B43 Belarus

295.B45 Benelux countries

295.B9 Bulgaria

295.C37 Carpathian Mountains

295.D35 Danube River

295.F5 Finland

295.I43 Iceland

295.L285 Lapland

295.L37 Latvia

295.L78 Lithuania

295.L9 Luxemburg

295.M4 Mediterranean Region

295.M629 Moldova

295.M68 Montenegro

295.N67 North Sea

295.P7 Poland

295.P75 Pomerania (Poland and Germany)

295.R48 Rhine River

295.R6 Romania

295.S55 Slovenia

295.T48 Thrace

295.U95 Ukraine

295.Y8 Yugoslavia

## Asia

299 General works

## China

For Hong Kong see TD313.H85

301.A1 General works

301.A6-Z States, provinces, etc., A-Z

302.A-Z Local (Cities, etc.), A-Z

## Taiwan

## Water supply for domestic and industrial purposes

## Country and city subdivisions

## Asia

## Taiwan -- Continued

- 302.5.A1 General works
- 302.5.A6-Z States, provinces, etc., A-Z
- 302.6.A-Z Local (Cities, etc.), A-Z

## South Asia

- 302.9 General works
- India
- 303.A1 General works
- 303.A6-Z States, provinces, etc., A-Z
- 304.A-Z Local (Cities, etc.), A-Z

## Pakistan

- 304.5.A1 General works
- 304.5.A6-Z States, provinces, etc., A-Z
- 304.6.A-Z Local (Cities, etc.), A-Z

## Bangladesh

- 304.65.A1 General works
- 304.65.A6-Z States, provinces, etc., A-Z
- 304.66.A-Z Local (Cities, etc.), A-Z

## Sri Lanka. Ceylon

- 304.7.A1 General works
- 304.7.A6-Z States, provinces, etc., A-Z
- 304.8.A-Z Local (Cities, etc.), A-Z

## Japan

- 305.A1 General works
- 305.A6-Z States, provinces, etc., A-Z
- 306.A-Z Local (Cities, etc.), A-Z

## Korea

## Including South Korea

- 306.5.A1 General works
- 306.5.A6-Z States, provinces, etc., A-Z
- 306.6.A-Z Local (Cities, etc.), A-Z

## North Korea

- 306.7.A1 General works
- 306.7.A6-Z States, provinces, etc., A-Z
- 306.8.A-Z Local (Cities, etc.), A-Z

## Iran. Persia

- 307.A1 General works
- 307.A6-Z States, provinces, etc., A-Z
- 308.A-Z Local (Cities, etc.), A-Z

## Russia in Asia. Siberia

- 309.A1 General works
- 309.A6-Z States, provinces, etc., A-Z
- 310.A-Z Local (Cities, etc.), A-Z

## Turkey. Asia Minor

- 311.A1 General works
- 311.A6-Z States, provinces, etc., A-Z
- 312.A-Z Local (Cities, etc.), A-Z

## 313.A-Z Other divisions of Asia, A-Z

- 313.A3 Afghanistan
- 313.A98 Azerbaijan
- 313.B47 Bhutan
- 313.B54 Borneo
- 313.B7 Brunei

## Water supply for domestic and industrial purposes

## Country and city subdivisions

## Asia

## Other divisions of Asia, A-Z -- Continued

- 313.B8 Burma. Myanmar
- 313.C16 Cambodia
- 313.C9 Cyprus
- 313.G39 Gaza Strip
- 313.H85 Hong Kong
- 313.I55 Indonesia
- 313.I7 Iraq
- 313.I75 Israel
- 313.J6 Jordan
- 313.K85 Kuwait
- 313.L28 Laos
- 313.L4 Lebanon
- 313.M2 Macau
- 313.M318 Malaya
- 313.M32 Malaysia
- 313.M45 Mekong River Valley
- 313.M65 Mongolia
- 313.N4 Myanmar see TD313.B8
- 313.N4 Nepal
- 313.P6 Philippines
- 313.Q36 Qatar
- 313.S33 Saudi Arabia
- 313.S53 Singapore
- 313.S6 Southeast Asia
- 313.S94 Syria
- 313.T48 Thailand
- 313.U54 United Arab Emirates
- 313.V5 Vietnam
- 313.W48 West Bank
- 313.Y45 Yemen (People's Democratic Republic)
- 313.5 Middle East
- 314 Arab countries
- 314.5 Islamic countries
- 315 Africa
- 315 General works
- 317.A1 Egypt
- 317.A6-Z General works
- 318.A-Z States, provinces, etc., A-Z
- 319.A-Z Local (Cities, etc.), A-Z
- 319.A-Z Other divisions of Africa, A-Z
- 319.A4 Algeria
- 319.A5 Angola
- 319.B57 Botswana
- 319.B85 Burundi
- 319.C15 Cabo Verde
- 319.C17 Cameroon
- 319.C42 Central Africa
- 319.C43 Central Africa Republic
- 319.C75 Congo (Brazzaville)
- Congo (Democratic Republic) see TD319.Z3
- Côte d'Ivoire see TD319.I9
- 319.D3 Dahomey



## Water supply for domestic and industrial purposes

## Country and city subdivisions

## Africa

## Other divisions of Africa, A-Z -- Continued

319.D55	Djibouti
319.E18	East Africa
319.E19	Eastern Africa
319.E77	Eswatini
319.E8	Ethiopia
319.F82	French-speaking Equatorial Africa
319.F83	French-speaking West Africa
319.G23	Gabon
319.G45	Ghana
319.G92	Guinea
319.G94	Guinea-Bissau
319.I9	Ivory Coast. Côte d'Ivoire
319.K4	Kenya
319.L45	Lesotho
319.L49	Liberia
319.L74	Libya
319.M28	Madagascar
319.M3	Malawi
319.M34	Mali
319.M39	Mauritania
319.M6	Morocco
319.M85	Mozambique
	Namibia see TD319.S68
319.N53	Niger
319.N54	Nigeria
319.N6	Nile River Valley
319.N67	North Africa
319.R45	Rhodesia, Southern. Zimbabwe
319.R9	Rwanda
319.S18	Sahel
319.S4	Senegal
319.S5	Sierra Leone
319.S59	Somalia
319.S6	South Africa
319.S64	Southern Africa
319.S68	Southwest Africa. Namibia
319.S73	Sub-Saharan Africa
319.S74	Sudan
(319.S87)	Swaziland
	see TD319.E77
319.T35	Tanzania
319.T64	Togo
319.T8	Tunisia
319.U4	Uganda
319.U66	Upper Volta
319.W48	West Africa
319.Z3	Zaire. Congo (Democratic Republic)
319.Z34	Zambia
	Zimbabwe see TD319.R45
	Indian Ocean islands
320	General works
320.5.A-Z	Special islands, A-Z

- Water supply for domestic and industrial purposes
  - Country and city subdivisions
    - Indian Ocean islands
      - Special islands, A-Z -- Continued
        - 320.5.M38 Mauritius
        - 320.5.R48 Réunion
    - Australasia
      - 320.7 General works
        - Australia
          - 321.A1 General works
          - 321.A6-Z States, provinces, etc., A-Z
          - 322.A-Z Local (Cities, etc.), A-Z
        - New Zealand
          - 322.5.A1 General works
          - 322.5.A6-Z States, provinces, etc., A-Z
          - 322.6.A-Z Local (Cities, etc.), A-Z
        - 322.7 Papua New Guinea
      - Pacific islands
        - 323 General works
        - 324.A-Z By island, A-Z
      - Arctic regions
        - 325 General works
        - 325.5 Greenland
        - 326 Antarctica
        - 326.5 Tropics
      - 327 Developing countries
    - General works
      - 344 Early to 1800
      - 345 1800-
      - 346 Elementary textbooks
      - 348 Popular works. Juvenile works
      - 351 Pocketbooks, tables, etc.
      - 353 General special
      - 355 Addresses, essays, lectures
      - 357 Study and teaching
      - 358 Safety measures
        - Including safety measures for utilities and waterworks
    - 360 Water rates
      - For local see TD221+
      - Cf. TD499+ Meters
    - Water quality management
      - For local see TD221+
      - 365 General works
      - 365.5 Biomanipulation
    - Water quality monitoring
      - For local see TD221+
      - 367 General works
      - 368 Particle counting
    - Qualities of water. Water quality
      - For local see TD221+
      - 370 General works
      - 372 Softness
      - 374 Hardness and its correction
      - Chemical purification see TD451+
      - 375 Sensory qualities

## Water supply for domestic and industrial purposes -- Continued

## Examination and analysis of water

Including results

For specific pollutants of water see TD427.A+

Cf. GB855+ Natural water chemistry

380

General works

Chemical see QD142

384

Microscopical. Bacteriological

387.A-Z

Special bodies of water, A-Z

For water supplies of a special region or city see TD221+

## Water conservation

For special methods of conservation, see the method, e.g. SB439.8, Drought-tolerant plants;

SB475.83, Landscape architecture; TD397, Evaporation control in reservoirs; TC401-TC558,

Water resources development; TD495-TD497, Location of leaks in mains

For local see TD221+

388.A1

Periodicals, societies, congresses, etc.

388.A5-Z

General works

388.5

General special

## Sources of water supply

Cf. GB651+ Hydrology

390

General works

392

Rivers, lakes, ponds, etc.

## Reservoirs

For dams and their construction see TC540+

For special reservoirs see TD221+

Cf. QH96.8.R35 Reservoir drawdown (Freshwater biology)

Cf. QH541.5.R4 Ecology

Cf. TD195.R47 Environmental effects

395

General works

396

Sedimentation

397

Evaporation control

398

Aqueducts, conduits, etc.

## Groundwater

For local see TD221+

Cf. GB1001+ Hydrology

Cf. TD426+ Pollution of groundwater

403

General works

404

Artificial recharge

Cf. TD765 Disposal of sewage effluent

404.5

Aquifer storage recovery

404.7

Qanats

## Wells

For local see TD221+

Cf. TD426.8 Water pollution

405

General works

407

General special

Including standards

410

Artesian wells

412

Well digging and boring

414

Boring machinery

Including catalogs

Pumps see TJ899+

415

Dew and fog

For dew ponds see TD395

418

Rainwater (Collection and use)

## Water supply for domestic and industrial purposes -- Continued

## Water pollution

- Cf. GC1080+ Marine pollution
- Cf. QH545.W3 Effect on plants and animals
- Cf. RA591+ Public health

- 419 Periodicals. Societies. Serials
- 419.5 Congresses
- 420 General works
- 422 Juvenile works
- 423 General special
- Study and teaching
- 424 General works
  - By region or country
    - United States
      - 424.3 General works
      - 424.35.A-Z By region or state, A-Z
      - 424.4.A-Z Other regions or countries, A-Z
  - 424.5 Research
  - 424.8 Nonpoint source pollution
    - For local see TD221+
- 425 Pollution of streams
  - For effect of oil pollution on marine organisms see QH91.8.O4
  - For pollution of special water supplies and bodies of water see TD221+
  - For sewage effluent disposal into streams, etc. see TD763+
  - For sewage sludge disposal into streams, etc. see TD771.5
- Pollution of groundwater
- 426 General works
- 426.8 Wells
- 427.A-Z Specific pollutants and organisms, A-Z
  - Including presence of naturally occurring substances
  - 427.A27 Acid deposition
  - 427.A28 Acid mine drainage
  - 427.A35 Agricultural chemicals
  - 427.A45 Aluminum
  - 427.A68 Aquatic pests
    - Cf. SH174.5+ Fish culture
  - 427.A77 Arsenic
  - 427.A84 Atmospheric deposition
  - 427.A86 Atrazine
  - 427.B37 Bacteria
  - 427.B67 Boron
  - 427.B75 Bromate
  - 427.C33 Cadmium
  - 427.C37 Carbon dioxide
  - 427.C48 Cesium
  - 427.C54 Chemical weapons
  - 427.C57 Chromium
  - 427.C66 Copper
  - 427.C78 Cryptosporidium
  - 427.C9 Cyanides
  - 427.C92 Cyanobacteria
  - 427.D34 DDT (Insecticide)
  - 427.D4 Detergents. Surfactants
  - 427.D47 Dibutyltin
  - 427.D52 Dibromochloropropane
  - 427.D53 Diclofenac

## Water supply for domestic and industrial purposes

## Water pollution

## Specific pollutants and organisms, A-Z -- Continued

427.D547	Dioxane
427.D55	Dioxins
427.D77	Drugs
427.E68	Enterobacteriaceae
427.E82	Estrogen
427.E83	Ethylene dibromide
427.F45	Fertilizers
427.F54	Fluorides
427.F58	Fly ash
427.F68	Fouling organisms
427.F85	Fungi
427.G55	Glyphosate
	Halogenated hydrocarbons see TD427.H93
427.H3	Hazardous substances
427.H4	Heat pollution
	Heavy metals see TD427.M44
427.H46	Herbicides
427.H49	Hexazinone
427.H85	Humus
427.H93	Hydrocarbons
	Including halogenated hydrocarbons and polycyclic aromatic hydrocarbons
427.I55	Inorganic compounds
427.M35	Marine debris
427.M4	Mercury
427.M44	Metals
	Including heavy metals
427.M53	Microorganisms
427.M93	Mycobacterium avium
427.N5	Nitrogen and nitrogen compounds
427.N87	Nutrients
427.O7	Organic compounds
427.P27	Particles
427.P33	Perchlorates
427.P35	Pesticides
427.P4	Petroleum
	Cf. SH177.O53 Effect on fish culture
427.P53	Phenols
427.P56	Phosphorus and phosphorus compounds
	Including phosphates
427.P62	Plastic scrap
427.P63	Plutonium
427.P646	Polybrominated diphenyl ethers
427.P65	Polychlorinated biphenyls
	Polycyclic aromatic hydrocarbons see TD427.H93
427.P67	Polyelectrolytes
427.R3	Radioactive substances
427.S24	Salt
427.S33	Sediment
427.S38	Selenium
427.S94	Sulfur and sulfur compounds
	Including sulfides
	Cf. TD196.S95 Environmental pollutants
	Surfactants see TD427.D4

## Water supply for domestic and industrial purposes

## Water pollution

## Specific pollutants and organisms, A-Z -- Continued

- 427.T42 Technetium  
 Thermal pollution see TD427.H4
- 427.T7 Trace elements
- 427.T73 Tributyltin
- 427.T75 Trichloroethylene
- 427.T77 Trihalomethanes
- 427.V36 Vanadium
- 427.V55 Viruses  
     Cf. QR388.5 Aquatic virology
- 427.V64 Volcanic ash, tuff, etc.
- 427.Z43 Zebra mussel
- 428.A-Z Sources of pollution, A-Z  
     Class here works that limit their discussions to wastes from specific industries, facilities, etc., as pollutants of water  
     For nonpoint source pollution see TD424.8  
     For waste disposal and control in specific industries see TD899.A+
- 428.A37 Agriculture
- 428.A48 Aluminum mines and mining. Bauxite mines and mining
- 428.A68 Aquaculture
- 428.A86 Atomic power plants
- 428.B34 Ballast water. Ballast water treatment facilities  
 Bauxite mines and mining see TD428.A48
- 428.B75 Bridge deck runoff
- 428.C58 Coal-fired power plants
- 428.C6 Coal mines and mining
- 428.C64 Construction industry
- 428.C66 Copper mines and mining
- 428.D74 Dredging. Dredging spoils
- 428.D78 Dry cleaning industry
- 428.F57 Fire extinguishing agents
- 428.F67 Forestry
- 428.G64 Gold mines and mining
- 428.I74 Iron mines and mining
- 428.L35 Land use
- 428.M47 Metallurgical plants
- 428.M49 Methane industry
- 428.M56 Mineral industries
- 428.M68 Motorboat racing
- Nuclear power plants see TD428.A86
- 428.O33 Offshore oil industry
- 428.O35 Oil sands extraction plants
- 428.P35 Paper industry
- 428.P47 Petroleum refineries
- 428.P54 Pharmaceutical industry
- 428.P67 Power plants
- 428.R63 Road construction
- Runoff, Bridge deck see TD428.B75
- 428.R84 Runoff from roads
- 428.S47 Sewerage. Sewage disposal plants
- 428.S55 Ships
- 428.S58 Ski resorts
- 428.S64 Soil management
- 428.T78 Trucking

- Water supply for domestic and industrial purposes
- Water pollution
  - Sources of pollution, A-Z -- Continued
    - 428.U73 Uranium mines and mining
    - 428.W65 Woodpulp industry
- 429 Water reuse
- Water purification. Water treatment and conditioning
  - Cf. RA591+ Public health
  - Cf. TD485+ Waterworks, etc.
  - Cf. TD745+ Purification of sewage
- 429.5 Periodicals, societies, congresses, etc.
- 430 General works
- 433 General special
- 434 Water treatment plants
- Special methods
  - Mechanical treatment
    - 437 General works
    - 439 Screening. Settling. Sedimentation
      - Including sedimentation tanks and basins
      - Cf. TD455 Coagulation
  - Filtration
    - 441 General works
    - 442 Direct filtration
    - 442.5 Membrane filtration
    - 443 Natural filtration
    - 444 Roughing filtration
    - 445 Sand filtration
    - 446 Diatomaceous earth filtration
    - 447 Filter basins and plants
    - 449 Domestic filters
    - 449.5 Adsorption
  - Chemical treatment
    - 451 General works
    - 455 Chemical precipitation. Coagulation. Flocculation
    - 457 Odor control
    - 458 Aeration
    - Disinfection
      - 459 General works
      - 460 Ultraviolet ray treatment
      - 461 Ozone treatment
      - Chlorination
        - 462 General works
        - 463 Hypochlorite treatment
        - 464 Chlorine dioxide
        - 464.5.A-Z Other, A-Z
    - 465 Algae control by copper sulfate and other chemicals
    - 466 Removal of dissolved minerals. Water softening
      - Cf. TD478+ Saline water conversion
  - 467 Fluoridation
  - 468 Other methods
    - Including color removal, stabilization, nitrification
- 471 Electrolytic treatment
- 473 Foam fractionation and flotation
- 475 Biological treatment
- 476 Irradiation
- 477 Other methods

- Water supply for domestic and industrial purposes
  - Water purification. Water treatment and conditioning -- Continued
    - Water treatment plant residuals see TD899.W3
  - Saline water conversion
    - 478 Periodicals, societies, congresses, etc.
    - Special countries
      - United States
        - 478.3 General works
        - 478.5.A-.W By state, A-W
        - 478.6.A-Z Other countries, A-Z
    - 479 General works
    - 479.15 Juvenile works
    - 479.2 General special
    - 479.25 Pocketbooks, tables, etc.
    - 479.3 Estimates and costs
    - Desalination plants
      - For plants in specific locations see TD478.3+
      - For special conversion methods see TD480+
    - 479.4 General works
    - 479.5 Combined purpose plants
    - 479.6 Nuclear powered plants
    - 479.7 Solar powered plants
    - 479.8 Pretreatment of saline waters. Scale
    - Special conversion methods
      - 480 Distillation methods
      - 480.2 Freezing methods
      - 480.3 Hydrate process
      - Membrane methods. Reverse osmosis process
        - 480.4 General works
        - 480.5 Electrodialysis
        - 480.7 Ion exchange desalting
  - Water distribution systems
    - For local see TD221+
    - Aqueducts see TD398
    - Reservoirs see TD395+
    - 481 General works
    - 482 General special
      - Including smaller plants, fountains, pumps, etc.
    - 484 Smart water grids
    - Waterworks, pumping stations, etc.
      - 485 General works
      - 487 General special
        - Pumping machinery see TJ899+
      - 487.5 Security measures
    - 489 Water towers, standpipes, etc.
      - Cf. TH9332+ Fire extinction
    - 491 Mains, pipes, valves, etc.
    - Flow of water see TC171+
    - 493 Water withdrawals
      - For local see TD221+
  - Water waste and its prevention
    - Including location of breaks or leakage in mains
      - 495 General works
      - 497 General special
        - Including unauthorized users of water



- Water supply for domestic and industrial purposes -- Continued  
 Water meters and metering  
     Cf. TC177 Hydraulics (Current meters)
- 499           General works  
 500           Special makes of meters
- Water supply for farms, country houses, etc. see TD927
- Sewage collection and disposal systems. Sewerage  
     For industrial wastes see TD896+  
     Cf. HD4475+ Economic aspects of sewage disposal  
     Cf. RA567+ Public hygiene
- 511           Periodicals, societies, congresses, etc.  
               History
- 515           General works  
 516           Ancient  
 517           Medieval  
 518           Modern  
 519           19th century  
 520           20th century
- Country subdivisions  
     Including all local departmental reports
- America
- 521           General works  
               North America
- 522           General works  
               United States
- 523           General works  
 523.1          Eastern states. Atlantic coast  
 523.15        New England  
 523.2          Appalachian region  
 523.3          Great Lakes region  
 523.4          Midwest. Mississippi Valley  
 523.5          South. Gulf states  
 523.6          West  
 523.7          Northwest  
 523.8          Pacific coast  
 523.9          Southwest
- 524.A-.W      States, A-W  
               e.g.
- 524.A4        Alaska  
 524.H3        Hawaii
- 525.A-Z        Cities or other special, A-Z
- Canada
- 526.A1        General works  
 526.A6-Z      Provinces, A-Z  
 527.A-Z        Local (Cities, etc.), A-Z
- 527.5         Latin America
- Mexico
- 528.A1        General works  
 528.A6-Z      States, provinces, etc., A-Z  
 529.A-Z        Local (Cities, etc.), A-Z
- Central America
- 530           General works  
 531.A-Z        Special countries, A-Z
- West Indies
- 532           General works  
 533.A-Z        Special islands, A-Z

## Sewage collection and disposal systems. Sewerage

## Country and city subdivisions

## America -- Continued

## South America

- 534 General works
- Argentina
  - 536.A1 General works
  - 536.A6-Z States, provinces, etc., A-Z
  - 537.A-Z Local (Cities, etc.), A-Z
- Bolivia
  - 538.A1 General works
  - 538.A6-Z States, provinces, etc., A-Z
  - 539.A-Z Local (Cities, etc.), A-Z
- Brazil
  - 541.A1 General works
  - 541.A6-Z States, provinces, etc., A-Z
  - 542.A-Z Local (Cities, etc.), A-Z
- Chile
  - 543.A1 General works
  - 543.A6-Z States, provinces, etc., A-Z
  - 544.A-Z Local (Cities, etc.), A-Z
- Colombia
  - 545.A1 General works
  - 545.A6-Z States, provinces, etc., A-Z
  - 546.A-Z Local (Cities, etc.), A-Z
- Ecuador
- Guyana
- Suriname
- French Guiana
- Paraguay
- Peru
- Uruguay
- Venezuela
- Europe
  - 555 General works
  - Great Britain. England
    - 557 General works
    - 558.A-Z English counties or regions, A-Z
  - Ireland
    - 559 General works
    - 559.2 Irish Free State. Ireland (Eire)
    - 559.3 Northern Ireland
    - 560.A-Z Special counties, A-Z
  - Scotland
    - 561 General works
    - 562.A-Z Special counties, A-Z
  - Wales
    - 563 Cities or other special, A-Z
- Austria
  - 565.A1 General works
  - 565.A6-Z States, provinces, etc., A-Z
  - 565.2.A-Z Local (Cities, etc.), A-Z
- Czechoslovakia
  - 565.3.A1 General works
  - 565.3.A6-Z States, provinces, etc., A-Z
  - 565.4.A-Z Local (Cities, etc.), A-Z

## Sewage collection and disposal systems. Sewerage

## Country and city subdivisions

## Europe -- Continued

## Hungary

- 565.5 General works
- 565.9.A-Z Special counties, A-Z
- 566.A-Z Cities or other special, A-Z

## Belgium

- 567.A1 General works
- 567.A6-Z States, provinces, etc., A-Z
- 568.A-Z Local (Cities, etc.), A-Z

## Denmark

- 569.A1 General works
- 569.A6-Z States, provinces, etc., A-Z
- 570.A-Z Local (Cities, etc.), A-Z

## France

- 571.A1 General works
- 571.A6-Z States, provinces, etc., A-Z
- 572.A-Z Local (Cities, etc.), A-Z
- 572.5 Colonies (Collectively)

## Germany

- 573 General works
- 573.1 East Germany. Eastern Germany
- 573.2 Baden-Württemberg
- 573.3 Bavaria
- 573.4 Hesse
- 573.5 Prussia
- 573.6 Saxony
- 573.7 North Rhine-Westphalia
- 573.9.A-Z Other states, A-Z
- 574.A-Z Cities or other special, A-Z
- 574.5 Colonies (Collectively)

## Greece

- 575.A1 General works
- 575.A6-Z States, provinces, etc., A-Z
- 576.A-Z Local (Cities, etc.), A-Z

## Netherlands

- 577.A1 General works
- 577.A6-Z States, provinces, etc., A-Z
- 578.A-Z Local (Cities, etc.), A-Z

## Italy

- 579.A1 General works
- 579.A6-Z States, provinces, etc., A-Z
- 580.A-Z Local (Cities, etc.), A-Z
- 580.5

## Malta

## Norway

- 581.A1 General works
- 581.A6-Z States, provinces, etc., A-Z
- 582.A-Z Local (Cities, etc.), A-Z

## Portugal, Azores, etc.

- 583.A1 General works
- 583.A6-Z States, provinces, etc., A-Z
- 584.A-Z Local (Cities, etc.), A-Z
- 584.5 Colonies (Collectively)

## Russia in Europe

- 585.A1 General works

## Sewage collection and disposal systems. Sewerage

## Country and city subdivisions

## Europe

## Russia in Europe -- Continued

585.A6-Z States, provinces, etc., A-Z

586.A-Z Local (Cities, etc.), A-Z

## Spain

587.A1 General works

587.A6-Z States, provinces, etc., A-Z

588.A-Z Local (Cities, etc.), A-Z

588.5

## Scandinavia

## Sweden

589.A1 General works

589.A6-Z States, provinces, etc., A-Z

590.A-Z Local (Cities, etc.), A-Z

## Switzerland

591.A1 General works

591.A6-Z States, provinces, etc., A-Z

592.A-Z Local (Cities, etc.), A-Z

595.A-Z Other regions and countries, A-Z

595.A2 Balkan Peninsula

595.A38 Albania

595.A44 Alps

595.A48 Andorra

595.B3 Baltic Sea

595.B43 Belarus

595.B45 Benelux countries

595.B9 Bulgaria

595.C37 Carpathian Mountains

595.D35 Danube River

595.F5 Finland

595.I43 Iceland

595.L285 Lapland

595.L37 Latvia

595.L78 Lithuania

595.L9 Luxemburg

595.M4 Mediterranean Region

595.N67 North Sea

595.P7 Poland

595.P75 Pomerania (Poland and Germany)

595.R48 Rhine River

595.R6 Romania

595.S4 Serbia

595.S55 Slovenia

595.T48 Thrace

595.U95 Ukraine

595.Y8 Yugoslavia

## Asia

599 General works

## China

For Hong Kong see TD613.H85

601.A1 General works

601.A6-Z States, provinces, etc., A-Z

602.A-Z Local (Cities, etc.), A-Z

## Taiwan

602.5.A1 General works

## Sewage collection and disposal systems. Sewerage

## Country and city subdivisions

## Asia

## Taiwan -- Continued

602.5.A6-Z States, provinces, etc., A-Z

602.6.A-Z Local (Cities, etc.), A-Z

## South Asia

602.9 General works

## India

603.A1 General works

603.A6-Z States, provinces, etc., A-Z

604.A-Z Local (Cities, etc.), A-Z

## Pakistan

604.5.A1 General works

604.5.A6-Z States, provinces, etc., A-Z

604.6.A-Z Local (Cities, etc.), A-Z

## Bangladesh

604.65.A1 General works

604.65.A6-Z States, provinces, etc., A-Z

604.66.A-Z Local (Cities, etc.), A-Z

## Sri Lanka. Ceylon

604.7.A1 General works

604.7.A6-Z States, provinces, etc., A-Z

604.8.A-Z Local (Cities, etc.), A-Z

## Japan

605.A1 General works

605.A6-Z States, provinces, etc., A-Z

606.A-Z Local (Cities, etc.), A-Z

## Korea

## Including South Korea

606.5.A1 General works

606.5.A6-Z States, provinces, etc., A-Z

606.6.A-Z Local (Cities, etc.), A-Z

## North Korea

606.7.A1 General works

606.7.A6-Z States, provinces, etc., A-Z

606.8.A-Z Local (Cities, etc.), A-Z

## Iran. Persia

607.A1 General works

607.A6-Z States, provinces, etc., A-Z

608.A-Z Local (Cities, etc.), A-Z

## Russia in Asia. Siberia

609.A1 General works

609.A6-Z States, provinces, etc., A-Z

610.A-Z Local (Cities, etc.), A-Z

## Turkey. Asia Minor

611.A1 General works

611.A6-Z States, provinces, etc., A-Z

612.A-Z Local (Cities, etc.), A-Z

613.A-Z Other divisions of Asia, A-Z

613.A3 Afghanistan

613.B54 Borneo

613.B7 Brunei

613.B8 Burma. Myanmar

613.C16 Cambodia

613.C9 Cyprus

Sewage collection and disposal systems. Sewerage  
Country and city subdivisions

Asia

Other divisions of Asia, A-Z -- Continued

- 613.G39 Gaza Strip
- 613.H85 Hong Kong
- 613.I55 Indonesia
- 613.I7 Iraq
- 613.I75 Israel
- 613.J6 Jordan
- 613.K85 Kuwait
- 613.L28 Laos
- 613.L4 Lebanon
- 613.M2 Macau
- 613.M318 Malaya
- 613.M32 Malaysia
- 613.M45 Mekong River Valley
- 613.N4 Myanmar see TD613.B8
- 613.N4 Nepal
- 613.P6 Philippines
- 613.Q36 Qatar
- 613.S33 Saudi Arabia
- 613.S53 Singapore
- 613.S6 Southeast Asia
- 613.S94 Syria
- 613.T48 Thailand
- 613.U54 United Arab Emirates
- 613.V5 Vietnam
- 613.W48 West Bank
- 613.Y45 Yemen (People's Democratic Republic)
- 613.5 Middle East
- 614 Arab countries
- 614.5 Islamic countries
- Africa
- 615 General works
- Egypt
- 617.A1 General works
- 617.A6-Z States, provinces, etc., A-Z
- 618.A-Z Local (Cities, etc.), A-Z
- 619.A-Z Other divisions of Africa, A-Z
- 619.A4 Algeria
- 619.A5 Angola
- 619.B57 Botswana
- 619.B85 Burundi
- 619.C17 Cameroon
- 619.C42 Central Africa
- 619.C43 Central Africa Republic
- 619.C75 Congo (Brazzaville)
- Congo (Democratic Republic) see TD619.Z3
- Côte d'Ivoire see TD619.I9
- 619.D3 Dahomey
- 619.D55 Djibouti
- 619.E18 East Africa
- 619.E19 Eastern Africa
- 619.E77 Eswatini
- 619.E8 Ethiopia

## Sewage collection and disposal systems. Sewerage

## Country and city subdivisions

## Africa

## Other divisions of Africa, A-Z -- Continued

- 619.F82 French-speaking Equatorial Africa
- 619.F83 French-speaking West Africa
- 619.G23 Gabon
- 619.G45 Ghana
- 619.G92 Guinea
- 619.G94 Guinea-Bissau
- 619.I9 Ivory Coast. Côte d'Ivoire
- 619.K4 Kenya
- 619.L45 Lesotho
- 619.L49 Liberia
- 619.L74 Libya
- 619.M28 Madagascar
- 619.M3 Malawi
- 619.M34 Mali
- 619.M39 Mauritania
- 619.M6 Morocco
- 619.M85 Mozambique
- 619.N53 Namibia see TD619.S68
- 619.N54 Niger
- 619.N6 Nigeria
- 619.R45 Nile River Valley
- 619.R9 Rhodesia, Southern. Zimbabwe
- 619.S18 Rwanda
- 619.S38 Sahel
- 619.S5 Senegal
- 619.S59 Sierra Leone
- 619.S6 Somalia
- 619.S64 South Africa
- 619.S68 Southern Africa
- 619.S73 Southwest Africa. Namibia
- 619.S74 Sub-Saharan Africa
- (619.S87) Sudan
- Swaziland
- see TD619.E77
- 619.T35 Tanzania
- 619.T64 Togo
- 619.T8 Tunisia
- 619.U4 Uganda
- 619.U66 Upper Volta
- 619.W48 West Africa
- 619.Z3 Zaire. Congo (Democratic Republic)
- 619.Z34 Zambia
- Zimbabwe see TD619.R45
- Indian Ocean islands
- 620 General works
- 620.5.A-Z Special islands, A-Z
- 620.5.M38 Mauritius
- 620.5.R48 Réunion
- Australasia
- 620.7 General works
- Australia
- 621.A1 General works

- Sewage collection and disposal systems. Sewerage
- Country and city subdivisions
- Australasia
- Australia -- Continued
- 621.A6-Z States, provinces, etc., A-Z
- 622.A-Z Local (Cities, etc.), A-Z
- New Zealand
- 622.5.A1 General works
- 622.5.A6-Z States, provinces, etc., A-Z
- 622.6.A-Z Local (Cities, etc.), A-Z
- 622.7 Papua New Guinea
- Pacific islands
- 623 General works
- 624.A-Z By island, A-Z
- Arctic regions
- 625 General works
- 625.5 Greenland
- 626 Antarctica
- 626.5 Tropics
- 627 Developing countries
- General works
- 644 Early to 1800
- 645 1800-
- 646 Elementary works
- 648 Popular works
- 651 Pocketbooks, tables, etc.
- 653 General special
- Including costs
- 655 Addresses, essays, lectures
- Urban runoff
- Cf. TD665 Storm sewer system
- 657 General works
- 657.4 Rain gardens
- 657.5 Stormwater infiltration
- 658 Sewerage systems design
- 659 Layout of the system
- Sewerage systems
- 662 Combined system
- 664 Separate system
- 665 Storm sewer system
- 666 Liernur system
- 668 Shone system
- 670 Other systems
- Sewers
- For testing the strength of cement pipe see TA447
- For testing the strength of metal pipe see TA492.P6
- 673 General works
- Shape and size. Theory of flow
- 675 General works
- 676 Tables, formulas, diagrams
- Design and construction
- 678 General works
- 680 Brick
- 682 Cement and clay. Concrete
- 684 Clay pipe
- 686 Steel and iron pipe



## Sewage collection and disposal systems. Sewerage

## Sewers

## Design and construction -- Continued

- 688 Other material
- 690 Sewer gas, explosions, etc.
- 691 Sewer corrosion
- 692 Ventilation of sewers
- Sewer appurtenances
- 695 General works
- 696 Manholes
- 698 Flushing apparatus
- 701 Regulators
- 705 River crossings, etc.
- 711 Intercepting and outfall sewers
- Maintenance and repair
- 716 General works
- 719 Inspection and cleaning
- 722 Collecting reservoirs
- 725 Pumping stations

## Sewage

- 730 General works
- 733 General special
- 735 Analysis, sampling methods, etc.
- 736 Microbiology
- 737 Biochemical oxygen demand

## Sewage disposal systems

For local see TD521+

- 741 General works
- 743 General special
- Treatment, purification, etc.
- 745 General works
- 746 Sewage disposal plants
- 746.5 Oxidation ponds. Stabilization ponds. Sewage lagoons
- Disinfection. Deodorization
- 747 General works
- 747.5 Ultraviolet ray treatment
- 747.7 Chlorination
- 747.9 Neutralization
- 748 Screening. Skimming
- Sedimentation. Settling tanks
- Cf. TD778 Septic tanks
- 749 General works
- 750 Imhof tanks
- 751 Sedimentation with coagulation. Chemical precipitation. Flocculation
- 753 Filtration. Screening
- 753.5 Adsorption
- 754 Membrane methods. Reverse osmosis process
- 754.5 Foam fractionation and flotation
- Biological purification. Bacterial purification
- Cf. TD746.5 Oxidation ponds
- Cf. TD764 Self-purification of streams, etc.
- 755 General works
- 756 Activated sludge method
- 756.45 Anaerobic treatment
- 756.5 Constructed wetlands
- 756.65 Microbial granulation technology

## Sewage collection and disposal systems. Sewerage

## Sewage disposal systems

## Treatment, purification, etc. -- Continued

- 757 Electrolytic treatment
- 757.5 Ion exchange
- 758 Aeration. Oxidation
- 758.5.A-Z Removal of specific chemical elements, compounds, etc., A-Z
- 758.5.C45 Chlorine
- 758.5.C65 Color removal
- 758.5.C93 Cyanides
- 758.5.H39 Hazardous wastes
- 758.5.H43 Heavy metals
- 758.5.N58 Nitrogen
- 758.5.N58 Nutrients
- 758.5.O37 Oil
- 758.5.O75 Organic compounds
- 758.5.P53 Phenols
- 758.5.P56 Phosphorus
- 758.5.P64 Polychlorinated biphenyls
- 758.5.S44 Silver

## Disposal of sewage effluent

- 759 General works
- 760 Disposal on land. Irrigation. Sewage farming
- 761 Subsurface disposal. Deep-well injection
- Disposal by dilution. Discharge into streams, lakes, oceans
- 763 General works
- 764 Self-purification of streams, etc.
- 765 Other methods
  - Including recharge of groundwaters
  - Cf. TD429 Water reuse

## Sewage sludge treatment and disposal

- 767 General works
- Properties of sewage sludge. Tests
- 767.4 General works
- 767.7 Activated sludge
- Treatment
- 768 General works
- Sludge digestion. Digestion tanks
- 769 General works
- 769.4 Sludge gas production and utilization
- 769.7 Dewatering. Drying
- 769.8 Irradiation
- Special disposal methods
- Incineration
- 770 General works
- 770.3 Sewage sludge ash
- 771 Sanitary landfills. Burial
- 771.5 Discharge into streams, ocean
- 772 Manufacture into fertilizer, soil builder, etc.
- Disposal as fertilizer, soil builder, etc.
  - Cf. SD408 Forest fertilization
- 774 General works
- 775 Cesspools, middens, privies, latrines
  - Cf. TH4975 Design and construction of privies
- 776 Earth closets
- 778 Septic tanks

	Sewage collection and disposal systems. Sewerage
	Sewage disposal systems
	Sewage sludge treatment and disposal
	Disposal as fertilizer, soil builder, etc. -- Continued
779	Aerated package treatment systems
780	Pail systems. Can privies
	Municipal refuse. Solid wastes
	Class here collection and disposal
785	Periodicals, societies, congresses, etc.
785.5	Dictionaries and encyclopedias
786	Directories
	Special countries
	United States
788	General works
788.4.A-Z	By region or state, A-Z
	Subarrange each state by Table T4a
789.A-Z	Other regions or countries, A-Z
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790	Developing countries
791	General works
792	Juvenile works
793	General special
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793.2	General works
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793.25	General works
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793.27.A-Z	Other regions or countries, A-Z
793.3	Research
793.7	Estimates and costs
	Waste minimization
793.9	General works
793.95	Source reduction
	Special industries, plants, processes, etc. see TD899.A+
794	Collection and haulage
794.2	Integrated solid waste management
	For local see TD788+
	Recycling
	Cf. SB454.3.R43 Gardening
	Cf. TS169 Waste control
794.5	General works
794.8	Source separation
	Special disposal methods
	Open dumps
795	General works
795.4	Junkyards and automobile graveyards
795.7	Sanitary landfills
	Incineration. Incinerators
796	General works
796.2	Waste heat utilization
796.5	Composting
796.7	Other methods
	Special wastes and their disposal
797	Ashes
	Automobile-related wastes

- Municipal refuse. Solid wastes
    - Special wastes and their disposal
      - Automobile-related wastes -- Continued
        - 797.5 General works
        - 797.7 Waste tires
        - Packaging waste
          - 797.9 General works
          - 797.92 Cushioning materials
        - 798 Plastic waste
        - 799 Glass
        - 799.5 Metal
        - 799.7 Household appliances
        - 799.8 Household batteries
        - 799.85 Electronic apparatus and appliances
        - 800 Petroleum waste
        - 800.5 Waste paint
        - Garbage
          - 801 General works
          - 803 Incinerators
          - Organic wastes
            - 804 General works
            - 805 Paper waste
            - 810 Wood waste
            - 810.5 Yard waste
            - (811) Animal waste
              - see TD930.2
  - Hazardous substances see TD1020+
  - Radioactive wastes and their disposal
    - Cf. TD897.85+ Industrial wastes
    - Cf. TD1020+ Hazardous wastes and their disposal
- 812 General works
  - By region or country
    - United States
      - 812.2 General works
      - 812.3.A-Z By region or state, A-Z
      - 812.4.A-Z Other regions or countries, A-Z
      - 812.5.A-Z Special chemical elements, compounds, etc., A-Z
        - 812.5.A48 Aluminum
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- Street cleaning. Litter and its removal
  - Cf. TE220.55 Roadside litter control
- 813 General works
  - Special countries
    - America
      - 815 General works
        - United States
          - 817 General works
          - 818.A-W States, A-W
          - 819.A-Z Cities, A-Z
        - Canada
          - 820 General works
          - 821.A-Y Provinces, A-Y
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- Street cleaning. Litter and its removal
  - Special countries
    - America -- Continued
      - Mexico
        - 824 General works
        - 825.A-Z Cities, A-Z
      - Central America
        - 826 General works
        - 827.A-Z Special countries, A-Z
      - West Indies
        - 829 General works
        - 830.A-Z Special islands, A-Z
      - South America
        - 832 General works
        - 833.A-Z Special countries, A-Z
    - Europe
      - 835 General works
      - 836.A-Z Special countries, A-Z
    - Asia
      - 838 General works
      - 839.A-Z Special countries, A-Z
    - Africa
      - 841 General works
      - 843.A-Z Special countries, A-Z
    - Australia
      - 845 General works
      - 846.A-Z States, A-Z
    - New Zealand
      - 847 Pacific islands
    - Pacific islands
      - 848 General works
      - 849.A-Z Special islands, A-Z
  - Tools and appliances
    - 860 Street sprinkling
      - 863 General works
      - 865 Sprinkling carts
  - Control of snow and ice on streets
    - Cf. TE220.5 Control of snow and ice on roads and highways
    - 868 General works
      - By region or country
        - United States
          - 869 General works
          - 869.2.A-Z By region or state, A-Z
          - 869.4.A-Z Other regions or countries, A-Z
      - 870 Use of chemicals
        - Including salt, etc.
- (877) Street lighting
  - see TK4188 (Electric); TP741 (Nonelectric)
- Special types of environment
  - Soil pollution. Soil remediation
    - Cf. RA571 Environmental health
    - Cf. S622+ Soil conservation
  - 878 General works
    - By region or country
      - United States
        - 878.2 General works
        - 878.3.A-Z By region or state, A-Z

- Special types of environment  
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 878.4.A-Z Other regions or countries, A-Z  
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 879.A-Z Particular pollutants, A-Z  
 879.A35 Agricultural chemicals  
     Class here works on the pollution of soils by agricultural chemicals  
     For general works on agricultural chemicals and their behavior in soils see S592.6.A34  
 879.B4 Benzopyrene  
 879.B47 Beryllium  
 879.C33 Cadmium  
 879.C45 Chromium  
 879.C63 Cobalt  
 879.C93 Cyanides  
 879.H38 Hazardous wastes. Hazardous substances  
 879.H4 Heavy metals  
 879.H47 Herbicides  
 879.I55 Inorganic compounds  
 879.L43 Lead  
 879.M47 Metals  
 879.O73 Organic compounds  
 879.P37 Pesticides  
     Cf. S592.6.P43 Behavior and movement in soils  
     Cf. SB951.145.S65 Soil pesticides  
 879.P4 Petroleum. Oil pollution  
 879.P64 Polychlorinated biphenyls  
 879.P66 Polycyclic aromatic hydrocarbons  
 879.R34 Radioactive pollution  
 879.S85 Sulfates  
 880.A-Z Special industries, facilities, activities, etc., A-Z  
 880.L35 Land use  
 Air pollution and its control  
     Cf. HC79.A4 Economic aspects  
     Cf. QC882+ Atmospheric pollutants  
     Cf. QH545.A3 Influence on plants and animals  
     Cf. QP82.2.A3 Physiological effect  
     Cf. RA576+ Public health  
 881 Periodicals, societies, congresses, etc.  
 881.5 Dictionaries and encyclopedias  
 882 Directories  
 883 General works  
 883.1 General special  
 883.13 Juvenile works  
 883.14 Addresses, essays, lectures  
 Study and teaching  
 883.143 General works  
     By region or country  
     United States  
     General works  
 883.144 General works  
 883.145.A-Z By region or state, A-Z

- Special types of environment
  - Air pollution and its control
    - Study and teaching
      - By region or country -- Continued
      - 883.148.A-Z Other regions or countries, A-Z
      - 883.15 Research
      - 883.17 Indoor air pollution
        - Including indoor air quality
    - Special regions or countries
      - United States
        - 883.2 General works
        - 883.5.A-Z By region or state, A-Z
          - Subarrange each state by Table T4a
        - 883.7.A-Z Other regions or countries, A-Z
          - Subarrange each country by Table T4a
    - Particular air pollutants and their control
      - 884 Smoke
        - Cf. QC882.6 Meteorology
        - Cf. TH1088.5 Smoke control systems
        - Cf. TH2281+ Chimneys
      - 884.3 Smog. Fog-pollutant mixtures
      - 884.5 Dusts, fumes, and mists; particulate matter
        - Cf. QC882.5 Meteorology
      - Gases. Flue gases
        - General works
        - Individual gases and groups of gases, A-Z
          - 885 Carbon dioxide
            - Including carbon sequestration technologies
            - Cf. QE516.C37 Carbon sequestration by natural causes
          - 885.5.C33 Carbon monoxide
          - Carbon sequestration technologies see TD885.5.C3
          - 885.5.C47 Chlorine
          - 885.5.C5 Chlorofluoromethane
          - 885.5.C66 Combustion gases
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          - 885.5.N38 Natural gas
          - 885.5.N5 Nitrogen oxides
          - 885.5.O74 Organic compounds
          - 885.5.O85 Ozone
          - 885.5.R33 Radon
          - 885.5.S8 Sulfur dioxide
          - 885.5.S85 Sulfur oxides
      - 886 Odors
        - 886.5 Automobile exhaust
          - Including emissions from motor vehicles in general
          - Cf. TL214.P6 Pollution control devices for motor vehicles
        - 886.6.A-Z Special topics, A-Z
        - 886.6.C66 Constant volume sampling
        - 886.7 Aircraft exhaust emissions
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        - 887.A-Z Other pollutants, A-Z

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## Air pollution and its control

## Particular air pollutants and their control

## Other pollutants, A-Z -- Continued

887.A37	Acrylonitrile
887.A66	Ammonia
887.A8	Asbestos
887.B43	Benzene
887.B45	Benzopyrene
887.B58	Bituminous materials
887.C34	Cadmium
887.C37	Carbon disulfide
887.C47	Chlorofluorocarbons
887.D56	Dioxins
887.E64	Epichlorohydrin
887.E83	Ethylene dichloride
887.F48	Fibers
887.F63	Fluorides
887.F67	Fluorocarbons
887.F69	Fossil fuels
887.H3	Halocarbons
887.H4	Heavy metals
887.H46	Hexane
887.H48	Hexylene glycol
887.H93	Hydrocarbons
887.I56	Inorganic compounds
887.L4	Lead
887.M34	Manganese
887.M37	Mercury
887.M4	Metals
887.O95	Ozone-depleting substances
887.P34	Peat
887.P45	Pesticides
887.P65	Pollen
887.P69	Polybrominated diphenyl ethers
887.P695	Polycyclic aromatic hydrocarbons
887.R3	Radioactive metals
887.S78	Sulfates
887.S82	Sulfur
887.T75	Trichloroethylene
887.V55	Vinyl chloride
887.V65	Volatile organic compounds
888.A-Z	Sources of pollution, A-Z
	Cf. TD899.A+ Waste control in special industries and plants
888.A53	Aerospace industries
888.A54	Agriculture
888.A56	Aluminum plants
888.A86	Asphalt plants
888.B74	Breweries
888.C4	Cement plants
888.C5	Chemical plants
888.C58	Coaling stations
888.C6	Coffee processing plants
888.C63	Construction industry
888.C64	Copper industry and trade
888.C65	Cotton gins



- Special types of environment
  - Air pollution and its control
    - Sources of pollution, A-Z -- Continued
      - 888.E43 Electric power-plants
      - 888.F3 Factories
      - 888.F45 Fertilizer industry
      - 888.F6 Foundries
      - 888.G37 Gas manufacture and works
      - 888.H43 Heating plants
      - 888.H9 Hydrochloric acid plants
      - 888.M26 Machinery industry
      - 888.M4 Metallurgical plants
      - 888.N8 Nuclear facilities
      - Nuclear power plants see TD888.E43
      - 888.O35 Oil sands extraction plants
      - 888.P38 Petroleum chemicals industry
      - 888.P4 Petroleum refineries
      - 888.P67 Power plants
      - 888.P73 Printed circuits industry
      - 888.P8 Pulp and paper mills
      - 888.R4 Reactor fuel reprocessing plants
      - 888.R48 Resource recovery facilities
      - 888.R62 Road construction, maintenance, and repair
      - 888.R66 Roofing industry
      - 888.S38 Sewage disposal plants
      - 888.S54 Ships
      - 888.S6 Solvents industry
      - 888.S7 Steam power plants
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      - 888.S8 Sulfuric acid plants
      - 888.W6 Wood industry. Lumber industry
        - Cf. TD888.P8 Pulp and paper mills
- 889 Air pollution control equipment
  - Cf. TH7692+ Dust removal (by pneumatic suction, etc.)
- 890 Measurement. Air sampling and analysis
  - For measurement or analysis of specific pollutants see TD884+
- Noise and its control
  - 891 Periodicals, societies, congresses, etc.
  - 891.5 Directories
  - 892 General works
  - 892.5 Juvenile works
  - Special countries
    - United States
      - 893 General works
        - 893.3.A-Z By region or state, A-Z
        - 893.5.A-Z Other regions or countries, A-Z
        - 893.6.A-Z Special industries, facilities, activities, etc., A-Z
          - 893.6.A57 Airplanes
            - Cf. TL671.65 Aeronautical engineering
          - 893.6.B58 Blast furnaces
          - 893.6.B68 Bottling plants
          - 893.6.C45 Chemical plants
          - 893.6.C6 Construction industry
          - 893.6.C78 Crushed stone industry
          - 893.6.D94 Dwellings

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## Special industries, facilities, activities, etc., A-Z -- Continued

893.6.E4 Electric lines  
 893.6.F58 Flour mills  
 893.6.F64 Food industry  
 893.6.F65 Forge shops  
 893.6.G37 Gasworks  
 893.6.G7 Grain elevators  
 893.6.M3 Machine shops  
 893.6.M35 Materials handling  
 893.6.M43 Meat industry  
 893.6.M45 Metalwork  
 893.6.M5 Mineral industries  
 893.6.O34 Offices  
 893.6.P35 Paper industry  
 893.6.P47 Petroleum refineries  
 893.6.P55 Pipe industry  
 893.6.P68 Power plants  
 893.6.P74 Precast concrete industry  
 893.6.P75 Printing plants  
 893.6.Q35 Quarries and quarrying  
 893.6.R3 Railroads  
 893.6.S48 Sewage disposal plants  
 893.6.T4 Textile industry  
 893.6.T7 Transportation  
 893.6.T86 Tunneling  
 893.6.W37 Water treatment plants  
 893.6.W65 Woodworking industries

894 Noise measurement

## Industrial and factory sanitation

Cf. HD3656+ Factory inspection  
 Cf. HD7260+ Industrial hygiene (Administrative aspects)  
 Cf. T55+ Industrial safety  
 Cf. TS193 Plant housekeeping

895 General works

## Industrial and factory wastes

Cf. HD30.255 Environmental aspects of industrial management

896 Periodicals, societies, congresses, etc.

897 General works

897.5 General special

897.6 Industrial waste treatment facilities

Including centralized facilities

## Special regions or countries

United States

897.7 General works

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

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

## Special topics

897.842 Biodegradation

897.843 Incineration

897.845 Recycling

897.847 Waste minimization

## Special wastes and their disposal

- Industrial and factory sanitation
  - Industrial and factory wastes
    - Special wastes and their disposal -- Continued
      - Radioactive waste disposal
        - For municipal radioactive waste see TD812+
        - For municipal and industrial hazardous wastes see TD1020+
        - For temporary storage at the facility see TK9152.165
        - Cf. TK9152.17 Transportation of radioactive substances
- 897.85 Periodicals, societies, congresses, etc.
- 898 General works
  - By region or country
    - United States
      - 898.118 General works
      - 898.12.A-Z By region or state, A-Z
      - 898.13.A-Z Other regions or countries, A-Z
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    - 898.14.A-Z Special topics, A-Z
      - For local see TD898.118+
      - 898.14.B55 Biodegradation
      - 898.14.E36 Economic aspects
      - 898.14.E58 Environmental aspects
      - 898.14.E83 Evaluation
      - 898.14.G46 Geochemistry
      - 898.14.G47 Geology
        - Cf. TD898.2 Disposal in the ground
      - 898.14.G68 Government policy
      - 898.14.I57 International cooperation
      - 898.14.M35 Management
      - 898.14.M36 Mathematical models
      - 898.14.R57 Risk assessment
      - 898.14.S34 Safety measures
      - 898.14.S63 Social aspects
    - Radioactive waste sites
      - For local see TD898.118+
      - Cf. TK9152.2 Decontamination. Decommissioning of facilities
- 898.15 General works
- 898.155.A-Z Special topics, A-Z
  - 898.155.D47 Design and construction
  - 898.155.E83 Evaluation
- 898.16 Radioactive waste treatment facilities (General)
  - For local see TD898.118+
- Special disposal methods
  - For temporary storage at the facility see TK9152.165
- 898.17 General works
- 898.173 Bituminization
- 898.175 Incineration
- 898.178 Transmutation
- 898.179 Vitrification
- 898.18 Stabilization. Solidification
- 898.2 Disposal in the ground
  - For local see TD898.118+
- 898.4 Disposal in the water
  - For local see TD898.118+
- 898.6 Disposal under the seabed
  - For local see TD898.118+
- 898.7.A-Z Special substances, A-Z

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- Industrial and factory wastes
  - Special wastes and their disposal
    - Radioactive waste disposal
      - Special substances, A-Z -- Continued
        - Alpha-bearing wastes
          - 898.7.A46
          - 898.7.P48
        - Plutonium
          - 898.8.A-Z
      - Other wastes, A-Z
        - 898.8.A76 Arsenic wastes
        - 898.8.C67 Corrosive wastes
        - 898.8.M47 Metal wastes
        - 898.8.P45 Pentachlorophenol
        - 898.8.P64 Polychlorinated biphenyls
        - 898.8.S65 Solvent wastes
    - Waste control in special industries, plants, processes, etc., A-Z
      - Cf. TD428.A+ Pollution of water by special industries, etc.
      - Cf. TD888.A+ Air pollution by special industries, etc.
  - Agriculture see TD930+
  - Aluminum industry
    - 899.A44
  - Arsenals
    - 899.A76
  - Atomic power plants
    - 899.A8
  - Automobile repair shops
    - 899.A96
  - Beverage container industry
    - 899.B48
  - Beverage industry
    - 899.C25
  - Cadmium industry
    - 899.C27
  - Camp sites, facilities, etc.
    - 899.C3
  - Canneries
    - 899.C38
  - Cement industries
    - For recycling of cement and concrete in construction see TA439.5
  - Chemical industry
    - 899.C5
  - Citrus processing plants
    - 899.C55
  - Clay industries
    - 899.C57
  - Cleaning and dyeing industry
    - 899.C58
  - Coal liquefaction
    - 899.C585
  - Coal preparation plants
    - 899.C588
  - Construction industry
    - 899.C5885
  - Copper industry
    - 899.C59
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    - 899.C6
  - Dairy plants. Milk plants
    - 899.D3
  - Dental offices. Dental clinics
    - 899.D46
  - Distilleries
    - 899.D5
  - Feedlots
    - 899.F4
  - Fertilizer industry
    - 899.F47
  - Fisheries
    - 899.F5
  - Fishery processing industries
    - 899.F57
  - Food industry
    - 899.F585
  - Foundries
    - 899.F6
  - Fruit processing plants
    - 899.F7
  - Gas industry
    - 899.G3
  - Glass fiber industry
    - 899.G47
  - Gold industry
    - 899.G63
  - Gums and resins industry
    - 899.G85
  - Health facilities see RA969.45
  - Hotels
    - 899.H65
  - Laboratories
    - 899.L32
  - Laundries
    - 899.L37
  - Machinery industry
    - 899.M2

## Industrial and factory sanitation

## Industrial and factory wastes

## Waste control in special industries, plants, processes, etc., A-Z -- Continued

- 899.M29 Manufactures
- 899.M4 Meat industry. Packinghouses. Slaughterhouses
- 899.M43 Metallurgical plants
- 899.M45 Metalworking and finishing industry
- Milk plants see TD899.D3
- 899.M47 Mineral industries
- 899.M5 Mines
- Nuclear power plants see TD899.A8
- 899.O54 Oil industries
- Packinghouses see TD899.M4
- 899.P25 Paint industry and trade
- 899.P3 Paper industry
- 899.P37 Pesticides industry
- 899.P4 Petroleum industry
- 899.P45 Phosphate industry
- 899.P46 Phosphoric acid industry
- 899.P48 Photographic industry
- 899.P55 Plastics industry
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- 899.P65 Poultry industry
- 899.P69 Printed circuits industry
- 899.P7 Printing industry
- 899.R26 Railroads
- 899.R3 Reactor fuel reprocessing plants
- 899.R34 Refractories industry
- 899.R8 Rubber industry
- Seafood processing see TD899.F57
- 899.S46 Service stations
- 899.S55 Shipbuilding industry. Shipyards
- Slaughterhouses see TD899.M4
- 899.S68 Steam power plants
- 899.S7 Steelworks
- 899.S8 Sugar industry
- 899.T3 Tanneries
- 899.T4 Textile industry
- 899.T55 Tile industry
- 899.U73 Uranium industry
- 899.W3 Water treatment plants
- 899.W6 Wood industry
- 899.W65 Woodpulp industry
- 899.W73 Wrecking industry

## Sanitary engineering as applied to buildings

see TH6014+

- (905) General works
- (909) General special
- (913) House drainage
  - see TH6571+
- (915) Earth closets
  - see TD776
- (918) Sanitary inspection
  - see RA565+

- Rural and farm sanitary engineering
  - Including all small isolated plants for country and farmhouses, etc.
  - For local see TD21+
- 920 General works
- 923 General special
- 927 Water supply
  - For local see TD221+
- Sewage and refuse disposal and drainage
  - For local see TD521+
- 929 General works
- Agricultural wastes
  - 930 General works
  - 930.2 Animal waste
  - 930.3 Crop residues
  - 930.4 Dairy waste
  - Pesticide waste see TD1066.P47
- 931 Parks, recreation areas, campgrounds, etc.
  - Cf. GV198.S3 Sanitation of organized camps
  - Cf. RA604 Environmental health
- (935) Sanitary engineering of other isolated plants
  - see TH6057+
- Low temperature sanitary engineering
  - 940 General works
  - 943 General special
  - 947 Water supply
  - 949 Sewage and refuse disposal and drainage
  - (1015) Washhouses and public laundries
    - see TH6057.L3
- Hazardous substances and their disposal
  - Including both municipal and industrial hazardous wastes other than radioactive
  - For municipal radioactive wastes see TD812+
  - For industrial radioactive waste see TD897.85+
- 1020 Periodicals, societies, congresses, etc.
- 1024 Directories
- 1030 General works
- 1030.5 Juvenile works
- 1032 Handbooks, manuals, etc.
- By region or country
  - United States
    - 1040 General works
    - 1042.A-Z By region or state, A-Z
      - Subarrange each state by Table T4a
    - 1045.A-Z Other regions or countries, A-Z
      - Subarrange each country by Table T4a
  - 1050.A-Z Special topics, A-Z
    - For local see TD1040+
    - 1050.C57 Citizen participation
    - 1050.C65 Classification
    - 1050.C67 Cost control
    - 1050.E58 Environmental aspects
    - 1050.P64 Political aspects
    - 1050.R57 Risk assessment
    - 1050.S24 Safety measures
    - 1050.T43 Technological innovations
    - 1050.T73 Tracking
    - 1050.W36 Waste minimization

	Hazardous substances and their disposal -- Continued
1052	Hazardous waste sites (General) For local see TD1040+
1054	Hazardous waste treatment facilities (General) Including surface impoundments For local see TD1040+
	Special disposal methods
1060	General works
1061	Biodegradation
1062	Incineration
1063	Stabilization. Solidification
1064	Land disposal Including deep geologic disposal
1066.A-Z	Special substances, A-Z
1066.D45	Dense nonaqueous phase liquids
1066.G48	Glycols
1066.L57	Lithium
1066.M46	Metals
1066.O55	Oil
1066.O73	Organic compounds
1066.P47	Pesticides
1066.P64	Polychlorinated biphenyls

- Highway engineering. Roads and pavements  
 Cf. HD9717.5.R6+ Road construction industry  
 Cf. HE331+ Traffic engineering; economics of roads  
 Cf. QH545.R62 Environmental effects  
 Cf. TD888.R62 Air pollution
- Periodicals, societies, etc. By language of publication
- 1.A1 International or polyglot  
 1.A3-Z English  
 2 French  
 3 German  
 4 Other languages (not A-Z)  
 5 Congresses
- Exhibitions. Museums
- 6.A1 General works  
 6.A2-Z By region or country, A-Z  
     Subarrange each country by Table T4b
- 7 Collected works (nonserial)  
 9 Dictionaries and encyclopedias  
 12 Directories  
 History
- 15 General works  
 16 Ancient  
 17 Medieval  
 18 Modern to 1800  
 19 1800-
- 21-127 Country divisions (Table T1a modified)  
     Add country number in table to TE0  
     Class government publications with "General works"  
     Class special roads with "Local or special, A-Z" (or similar captions)  
     Class special roads limited to a particular province, city, etc. with the province, city, etc.
- America  
 North America  
 United States  
     For works on federal aid to highways see HE355+
- 25.5.A-Z Special roads not limited to one state or region. By name, A-Z
- Biography
- 139 Collective  
 140.A-Z Individual, A-Z  
     e.g.  
 140.M3 MacAdam
- General works
- 144 Early to 1800  
 145 1800-
- 147 Elementary textbooks  
 149 Juvenile works  
 151 Pocketbooks, tables, etc.  
 153 General special  
 155 Addresses, essays, lectures  
 175 Road and highway design  
     Including drawings and designs
- Interchanges and intersections
- 176 General works  
 176.3 Left-turn lanes  
 176.5 Traffic circles  
 176.8 Motor vehicle scales
- Roadside development. Landscaping



	Roadside development. Landscaping -- Continued
177	General works
178	Vegetation
178.8	Rest areas
180	Specifications
183	Estimates, quantities, and costs
185	Records, timekeeping, etc.
	For accounts and accounting see HF5686.R6
191	Study and teaching
192	Highway research
195	Highway engineering management
	Materials for roadmaking (stone, etc.)
200	General works
203	General special
	Including road-marking materials
205	Testing and inspection. Laboratory manuals
	Location engineering
206	General works
	Soil surveys
	Including physical tests, analysis of subgrade soils, soil profiles, etc.
208	General works
208.5	Trafficability of soils
	Road surveys
209	General works
209.5	Aerial surveys
	Construction details
	Foundations
210	General works
	Soil stabilization
	Including soil compaction
	Cf. S593.23 Agriculture
	Cf. TA749 Earthwork
210.4	General works
210.5.A-Z	Special methods and materials, A-Z
210.5.B5	Bitumen
210.5.C3	Calcium chloride
210.5.F55	Fly ash
210.5.L5	Lime
210.5.S3	Salt
210.5.S6	Soil cement
210.8	Fills and embankments
211	Subgrade structure
212	Base course
212.5	Shoulders
213	Culverts and small bridges
	Cf. TF282 Railroad engineering
215	Drainage
216	Bridge approaches
	Maintenance and repair
	Cf. TD813+ Street cleaning
220	General works
220.3	Overlays
220.5	Snow and ice control on roads and highways
	Cf. TD868+ Control of snow and ice on streets
220.55	Roadside litter control
	Cf. TD813+ Street litter and its removal

	Maintenance and repair -- Continued
220.63	Dust control
221	Road binders, dust preventives, etc., for unpaved roads
	Including bituminous materials
	Machinery, road rollers, etc.
223	General works
227	Catalogs
228	Safety and traffic control devices
	Cf. HE370.A+ Traffic regulations
	Cf. TE203 Road-marking materials
	Communication systems
	Including intelligent transportation systems
228.3	General works
228.37	Vehicular ad hoc networks
228.5	Low-volume roads
228.7	Frontage roads
	Country roads
	Cf. TE280+ Paths
229	General works
229.2	Farm roads
229.5	Forest roads
	Cf. SD389 Forestry
229.8	Mountain roads
229.9	Scenic byways
	Special kinds of unpaved roads
230	Dirt roads. Earth and sand roads
233	Gravel
	Broken stone
235	General works
237	Stonebreaking for roads
239	Stonecrushers for road material
241	Telford roads
243	Macadam roads
244	Tarred roads (Construction)
245	Other varieties
	Including plank roads
247	Ice roads. Ice crossings. Ice bridges
	Pavements and paved roads
250	General works
251	Design
251.5	Performance
252	Specifications
253	Wood
255	Brick
	Stone
257	General works
259	Cobblestone
	Stone blocks
261	General works
263	Belgian
265	Oblong
	Bituminous pavements
	Cf. TE221 Road-binders, dust preventives, etc.
	Cf. TE244 Tarred roads (Construction)
266	Congresses
270	General works

	Pavements and paved roads
	Bituminous pavements -- Continued
273	Asphalt mixing machinery and plants
275	Asphalt and asphalt mixtures
276	Asphalt block
	Concrete roads and pavements
	Including reinforced concrete
278	General works
278.2	Joints
278.6	Prestressed concrete
278.8	Precast concrete
279	Streets
279.3	Driveways
	Pedestrian facilities
	Cf. NA9074 Architecture
279.5	General works
	Sidewalks. Footpaths. Flagging
	Cf. TH4970 Garden walks
280	General works
283	Earth, gravel, cinder
285	Wood
287	Brick
289	Stone
291	Cement. Concrete
293	Asphalt
295.A-Z	Other, A-Z
298	Curbs. Curbstones
301	Bicycle paths and tracks
303	Equestrian roads
304	Trails
305	Racetracks for automobiles (Construction)
(315-427)	Laws and legislation
	see class K
450	Hauling tests. Traction tests

## Railroad engineering and operation

Cf. HE1001+ Economic aspects of railroads

Cf. TD893.6.R3 Noise control

## Periodicals and societies. By language of publication

1 English

2 French

3 German

4 Other languages (not A-Z)

5 Congresses

## Exhibitions. Museums

6.A1 General works

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

Subarrange each country by Table T4b

7 Collected works (nonserial)

9 Dictionaries and encyclopedias

12 Directories, etc.

For directories of U.S. railroads see HE2721

For directories of other railroads see HE2801+

For directories of supply dealers see TF355

For directories of purchasing agents see TF359

## History

15 General works

16 Antiquities

Including early curiosities of railroad development and horse railroads

19 Nineteenth century

20 Twentieth century

21-127 Country divisions (Table T1a)

Add country number in table to TF0

Class here only technical works, including works on the physical plants of individual railroads

## Biography

For locomotive engineers see TJ603.5.A+

139 Collective

140.A-Z Individual, A-Z

## General works

144 Early to 1850

145 1850-

146 Elementary textbooks

147 Popular works

148 Juvenile works

149 Pictorial works

151 Pocketbooks, tables, etc. (General)

153 General special

155 Addresses, essays, lectures

## Study and teaching. Research

## America

171 General works

173 United States

176 Canada

179 Latin America

180 Europe

181 Asia

182 Africa

183 Australia

TF	RAILROAD ENGINEERING AND OPERATION	TF
190	Economics of location Class here only technical works Cf. HE1612+ Location, right of way, etc. (Economic aspects) Cf. TF215+ Railroad surveying (General)	
193	Estimates, costs, etc.	
195	Specifications	
197	Model railways Safety measures see TF610 Railway construction	
200	General works Including reconnaissance, surveying, and location	
203	General special	
205	Railroad engineering (Fieldbooks, tables, etc.)	
208	Preliminary operations Railroad surveying	
210	General works	
212	Reconnaissance	
213	Preliminary surveying	
213.5	Aerial photography in railroad surveying	
214	Plotting, profiles, etc. Location	
215	General works	
216	Curves and turnouts	
217	Transition spiral, etc. Earthwork	
	Including rock cuttings	
220	General works	
222	Tables, calculations, etc. Excavating machinery, steam shovels, etc.	
225	General works	
226	Catalogs Tunnels and tunneling	
230	General works	
232	General special Including special methods of tunnels, e.g. Pressure tunneling Maintenance and operating of tunnels	
234	General works	
235	Ventilation	
236	Lighting	
238.A-Z	Special tunnels, A-Z Permanent way. Superstructure. Roadway. Track Cf. TF530+ Maintenance and repair	
240	General works	
241	General special	
243	Grades	
244	Gauges	
245	Drainage	
248	Tracklaying machinery Details of the permanent way	
250	Roadbed. Ballast Ties. Sleepers	
252	General works	
254	Wood	
255	Iron and steel	
256.A-Z	Other, A-Z	
257	Tie plates	

- Railway construction
  - Permanent way. Superstructure. Roadway. Track
    - Details of the permanent way -- Continued
      - Rails
        - 258 General works
        - 260 Section-books, tables, etc.
        - 261 Rail fastenings (fishplates, bolts, etc.)
        - 262 Continuous rails
        - 263 Crossings
          - Cf. HE1617+ Grade crossings
        - 264 Turnouts and curves (Construction)
          - For location of curves and field work see TF216
        - Switches, frogs, etc. Points (English)
          - 266 General works
          - 267 Frogs
          - 268 Guardrails
    - Railway structures and buildings
      - Cf. NA6310+ Architecture
      - 270 General works
      - Accessories to the permanent way
        - 271 Track tanks
        - 272 Ashpits, etc.
        - 274 Y tracks
        - 275 Turntables
        - 276 Transfer tables (Chariots transbordeurs)
        - 277 Fences, cattle guards, snow guards
        - Viaducts, bridges, etc. see TG445
        - 282 Culverts, small bridges, cattle passes, etc.
        - (284) Trestles
          - see TG365+
      - Buildings, etc., other than structures enumerated above
        - 288 General works
        - 290 Water columns, cranes, and pipes
        - 292 Sand plants and bins
        - 294 Coalsheds and coaling plants
        - 296 Engine houses. Roundhouses
        - 298 Shops
        - Passenger depots, stations, and terminals
          - 300 General works
          - 302.A-Z Special places, A-Z
        - Freight yards and terminals
          - 305 General works
          - 308.A-Z Special places, A-Z
        - 315 Railway docks
        - 320 Railway ferries
    - Railway equipment and supplies
      - General works
        - 340 Periodicals, societies, etc.
        - 345 Treatises
        - 347 General special
          - Including standardization
      - 350 Railway machinery and tools
      - 355 Directories of dealers and manufacturers
      - 357 Catalogs of dealers and manufacturers
        - Including reports, histories, etc. of individual firms
        - Cf. TJ625.A+ Locomotives

- Railway equipment and supplies
  - General works -- Continued
    - 359 Directories of purchasing agents
    - 361 Inspection. Testing
    - 363 Specifications
    - 365 Railway patents
    - 368 Electrical equipment
  - Rolling stock and car building
    - For rolling stock of special places and roads see TF21+
    - For car service see TF600+
  - 371 Periodicals
  - 373 Dictionaries and encyclopedias
  - 375 General works
    - Including atlases
  - 376 Railway shops and shop practice. Repair shops
    - Cf. TJ680+ Locomotive shops
  - 377 General special
- Details of car construction
  - Car trucks
    - 380 General works
    - 383 Wheels
    - 386 Axles
    - 389 Bearings and lubrication
    - 391 Springs
    - 393 Shock absorbers
  - 400 Car bodies
  - 410 Couplers
  - 413 Draft gear
  - Brake gear
    - 415 General works
    - Airbrakes
      - 420 General works
      - 425 Westinghouse
      - 430 New York
  - 440 Car furnishings
  - Car sanitation, heating, lighting, and ventilation
    - 445 General works
    - Lighting
      - 447 General works
      - 449 Electric lighting
    - 451 Drinking water
    - 453 Air conditioning
  - Varieties of cars
    - Passenger cars
      - 455 General works
      - 456 Dome cars
      - 457 Parlor cars
      - 459 Sleeping cars
      - 461 Dining cars
        - Cf. TF668.A1+ Service
    - 463 Baggage cars
    - 467 Mail cars
    - Freight cars
      - 470.A1 Periodicals, societies, congresses, etc.
      - 470.A3-Z General works
      - 475 Stock cars

- Railway equipment and supplies
  - Varieties of cars
    - Freight cars -- Continued
      - 477 Refrigerator cars
      - 479 Coal and ore cars
      - 481 Tank cars
      - 485 Cabooses, tool cars, etc.
      - 490 Derrick cars and wrecking cars
    - Motorcars
      - 494 General works
      - 495 Steam motorcars
      - 497 Gasoline motorcars
      - 498 Diesel motorcars
      - 499 Gas-turbine motorcars
  - Railway operation and management
    - For business administration see HE1621+
    - Periodicals and societies. By language of publication
      - For engineering and construction periodicals see TF1+
      - 501 English
      - 502 French
      - 503 German
      - 504 Other languages (not A-Z)
    - 505 General works
    - 506 Cold weather operation
    - 507 General special
    - Organization, etc., of staff and force
      - 510 General works
      - 512 General special
        - For wage tables, see HD4966.R1-.R45
    - Accounting see HE2241
    - 515 Classification of correspondence, maps, records, etc.
    - 518 Education and training of employees
    - Service rules and regulations
      - For regulations of particular branches of the service see TF530+
      - 520 General works
      - 522 Special roads
    - Maintenance and repair of permanent way
      - 530 General works
      - Roadmasters' and trackmasters' regulations
        - 535 General works
        - 536 Special roads
      - 537 Inspection. Testing
      - 538 Roadmasters' and trackmasters' manuals, etc.
      - 538.5 Track maintenance equipment
      - 539 Damage by natural disasters and its control
      - 541 Protection against sand. Removal of sand
      - 542 Protection against snow. Removal of snow and ice
      - 544 Removal of wrecks
      - 546 Removal of weeds. Weed-burners, etc.
      - 548 Ditches
    - Trains
      - Including the movement of trains and cars
      - 550 General works
      - 552 Train resistance
        - Cf. TF962 Car resistance
      - Train speed



## Railway operation and management

## Trains

Train speed -- Continued

553 General works

554 Tables

555 Trainload. Ton-miles and coal computations

556 Train running

Trainmen's manuals, etc.

557 General works

(558) Wage tables

see HD4966.R45+

559 Train rules

561 Right-of-way

563 Train dispatching

565 Time schedules, etc., for making timetables

For timetables themselves see HE1805

## Special kinds of trains

For named trains and trains of special roads see TF21+

## Passenger

570 General works

573 Fast express

## Freight

580 General works

582 Piggyback trains

583 Unit trains

Circus trains see GV1822

585 Other special kinds

## Terminal and yard management

590 General works

592 Switching of cars. Shunting

593 Making up trains

595 Engine house management. Roundhouse management

## Cars (Utilization and care)

Cf. HE1821+ Railway economics

Cf. TF371+ Car building

600 General works

Car interchange systems. Car service associations

605 Periodicals, societies, etc.

606 General works

610 Safety measures, signals, etc.

For airbrakes, etc., see TF420+

## Signaling

Including telegraphic equipment

615 General works

617 General special

620 Tests of vision, color blindness, etc.

625 Hand signals, etc.

Telegraph and telephone system. Radio and other electronic systems

Cf. TK5569.T7 Train telegraph

627 General works

628 Special systems

Including Bopp's

630 Block systems

635 Interlocking systems

638 Automatic train control

- Railway operation and management
- Signaling -- Continued
- 639      Other systems
  - Including coded centralized traffic control
- 640      Catalogs of signaling appliances
- Railroad accidents see HE1779+
- Traffic operations
- 650      General works
- 652      Station management
- 653      Passenger traffic
  - Cf. HE2561+ Economic aspects
- 654      Passenger tickets
- 656      Baggage
- 659      Express
- Freight
- 662      General works
- (663)     Classification
  - see HE2123 HE2311 etc.
- 664      Rate tables, etc.
- 666      Prorating and adjustment tables, etc.
- 667      Refrigerator service
- Dining car service
- 668.A1    Periodicals, societies, etc.
- 668.A2-Z  General works
- Local and light railways
  - For special places see TF21+
- 670      General works
- General special
- 673      General works
- 675      Narrow gauge railways
  - For special places see TF21+
- 677      Industrial railways
- 678      Logging railways
  - For special places see TF21+
- Mountain railways
- 680      General works
- 682      Cable
  - Cf. TF835 Street railways
- 684      Rack
- 686      Gravity
- 688.A-Z   Special railways. By place, A-Z
- 692      Atmospheric railways
- 693      Suspended railways
  - Cf. TJ1385+ Cableways, telpherage
- 694      Single-rail railways
- 695      Miscellaneous and curious railways
- Municipal and street railways. Interurban railways
- 701      Periodicals, societies, etc.
- 703      Directories
- Exhibitions. Museums
- 704.A1    General works
- 704.A2-Z  By region or country, A-Z
  - Subarrange each country by Table T4b
- 705      General works
- 707      General special

- Local and light railways  
 Municipal and street railways. Interurban railways -- Continued  
 Rapid transit question  
   Cf. HE5351+ Interurban electric railways (Economic aspects)
- 710           General works  
               Special places see TF721+  
 Rolling stock, track, and equipment of street car systems see TF863+
- 721-827       Country subdivisions (Table T1a)  
               Add country number in table to TF700  
               For special subways see TF847.A+  
               For special freight subways see TF851.A+
- 830           Horse railways  
 835           Cable railways  
               Cf. TF682 Mountain railways
- 838           Compressed air railways  
               Elevated railways  
               General works
- 840           Special places, A-Z  
 841.A-Z       Underground railways. Subways  
               General works  
 845           Special places, A-Z  
 847.A-Z       Freight subways  
               General works
- 850           Special places, A-Z  
 851.A-Z       Electric railways  
               For special places see TF1021+  
               Periodicals and societies see TF701
- 855           General works  
 856           Juvenile works  
 857           General special
- Electrification of steam railroads
- 858.A1       Periodicals. Societies. Serials  
 858.A2       Congresses  
 858.A4       General works  
 858.A5-Z     Special countries, A-Z  
 859.A-.Z4    Special cities (Terminals, etc.), A-Z  
 859.Z5A-.Z5Z Special railroads, A-Z
- Construction
- 863           Power production and distribution  
               Cf. TK1191+ Electric powerplants
- 865           Roadbed  
               Track  
               General works
- 870           Rails  
 872           Rail bonds, etc.  
 873           General special  
 875           Power transmission systems  
               General works
- 880           Trolley (overhead wiring)  
 885           Third-rail  
 890           Underground conduits  
 895           Other systems  
 900           Losses in transmission. Stray currents  
 912           Cars. Street cars. Interurban cars  
               General works
- 920           Car wiring and equipment  
 925

	Electric railways
	Construction
	Cars. Street cars. Interurban cars -- Continued
930	Controllers
935	Railway motors
940	Car lighting, headlights, etc.
945	Car heating
947	Safety devices
	Including car fenders
949	Details of car construction
949.A9	Axles
949.B7	Brakes
949.G4	Gear wheels
949.W5	Wheels
	Supplies
950	General works
951	Directories
952	Catalogs
	Operation and management
960	General works
962	General special
	Including cost of operation, car resistance
	Cf. TF552 Train resistance
965	Motormen's manuals
	For airbrake instructions see TF420+
	Service rules and regulations
967	General works
968	Special companies
970	Freight service
975	Electric locomotives
	Cf. TN337 Electric mine locomotives
980	Electro-diesel locomotives
1021-1127	Electric railways. Special countries (Table T1a)
	Add country number in table to TF1000
	Class here technical descriptions of special systems
	High speed ground transportation
1300	Periodicals, societies, serials, etc.
1305	Congresses
1315	History
1321-1427	Special countries (Table T1a)
	Add country number in table to TF1300
	Biography
1439	Collective
1440.A-Z	Individual, A-Z
1450	General works
1455	Juvenile works
1460	General special
	Construction (General)
1470	General works
1480	Power supply
1490	Guideways
	Operation and management (General)
1500	General works
1510	Signaling
1520	Communications
	Special systems

## High speed ground transportation

## Special systems -- Continued

1540	Improved passenger train (IPT)
	Tracked levitated vehicle (TLV)
1560	General works
1580	Tracked air cushion vehicle (TACV)
1600	Magnetic levitation vehicle (MAGLVE)
1620	Tube vehicle system (TVS)

## Bridge engineering

## Periodicals and societies. By language of publication

- 1 English
- 2 French
- 3 German
- 4 Other languages (not A-Z)
- 5 Congresses
- Exhibitions. Museums
- 6.A1 General works
- 6.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b
- 7 Collections
- 9 Dictionaries and encyclopedias
- 12 Directories
- History
- 15 General works
- 16 Ancient
- 17 Medieval
- 18 Modern
- 19 Nineteenth century
- 20 Twentieth century
- 21-127 Country divisions (Table T1a modified)
  - Add country number in table to TG0
  - Class here special bridges
  - America
    - North America
      - United States
        - 25.A-Z Special places and special bridges, A-Z
          - e.g.
          - 25.N5A2 New York. Report of Commissioner of Bridges
          - 25.N53 New York. Brooklyn Bridge (Suspension)
          - 25.N57 Niagara Falls. Suspension Bridge
          - 25.N58 Niagara Falls. Cantilever Bridge
          - 25.O43 Old Saybrook (Connecticut). New Baldwin Bridge
          - 25.S15 St. Louis Bridge (Steel arch)
          - 25.W3 Washington, D. C. Aqueduct Bridge
        - Canada
          - 27.A-Z Special places and special bridges, A-Z
            - e.g.
            - 27.M82 Montreal. Victoria Bridge (Tubular)
  - Europe
    - Great Britain
      - 64.A-Z Special places and special bridges, A-Z
        - e.g.
        - 64.B86 Britannia Bridge, Menai Strait (Tubular)
        - (64.F7) Forth Bridge
          - see TG64.S68
        - 64.L84 London. Tower Bridge
        - 64.M65 Monmouth (Wales). Monnow Bridge
        - 64.S68 South Queensferry (Scotland). Forth Bridge
    - France
      - 72.A-Z Special places and special bridges, A-Z
        - e.g.
        - 72.P23 Paris. Alexander III Bridge
- Special companies (History, description, etc.), A-Z
- Biography

- Biography -- Continued
  - 139 Collective
  - 140.A-Z Individual, A-Z
- General works
  - 144 Early to 1800
  - 145 1800-
  - 147 Elementary textbooks
  - 147.5 Popular works
  - 148 Juvenile works
  - 149 Pictorial works
  - 151 Pocketbooks, tables, etc.
  - 153 General special
  - 155 Addresses, essays, lectures
  - 157 Catalogs of bridge building companies
  - 160 Atlases, plans, etc.
  - 170 Study and teaching
  - (215-255) Bridge legislation and laws
    - see class K
  - Structural analysis as applied to bridges
    - Including loads, stresses, and strains
  - 260 General works
  - 265 Structural dynamics. Vibration
  - 267 Tables, calculations, etc.
  - 270 Graphic statics in bridge engineering
  - Bridge design and drafting
    - Cf. TG160 Plans
  - 300 General works
  - 301 Pin proportioning
  - 302 Earthquake effects
  - 303 Wind pressure
  - 304 Snow and ice loads
  - 305 Bridge testing
  - 307 Models of bridges
  - 310 Bridge specifications
  - 313 Bridge estimates. Quantities and costs
  - 315 Bridge erection, superintendence, maintenance and repair
  - 320 Bridge foundations
  - 325 Abutments and retaining walls for bridges
  - 325.6 Floors
  - 326 Bridge details
    - Including bearings, etc.
  - Special types of bridges
    - Arched bridges
      - 327 General works
      - 330 Masonry bridges
      - Concrete bridges
        - 335 General works
        - 340 Reinforced concrete bridges
    - Beam and girder bridges
      - Including the use of beams and girders in bridges
        - 350 General works
        - 355 Continuous girders
          - Cf. TG413+ Continuous girder bridges
        - 360 Plate girders
        - 362 Box girders
    - Trestles

	Special types of bridges
	Trestles -- Continued
365	Wood
367	Concrete and stone
370	Iron
	Truss bridges
375	Wood
380	Iron and steel
385	Cantilever bridges
390	Tubular bridges
400	Suspension bridges
405	Cable-stayed bridges
410	Metal arches and metal arch bridges
	Continuous girder bridges
413	General works
414	Reinforced concrete bridges
416	Metal bridges
418	Prefabricated bridges
	Cf. UG335 Military bridges
	Ice crossings, ice bridges, see TE247
	Bridges for special uses
420	Movable bridges
	Including drawbridges and swing bridges
425	Highway bridges
428	Footbridges
430	Park and ornamental bridges
435	Ferry bridges
445	Railway bridges
	For special places see TG21+
	Cf. TF282 Culverts, etc.
450	Pontoon bridges
	Cf. UG335 Military bridges
	Military bridges see UG335
470	Bridge accidents



- Building construction  
 Cf. TA630+ Structural engineering
- Periodicals and societies. By language of publication
- 1 English  
 2 French  
 3 German  
 4 Other languages (not A-Z)  
 5 Congresses
- Exhibitions. Museums
- 6.A1 General works  
 6.A2-Z By region or country, A-Z  
     Subarrange each country by Table T4b
- 7 Collected works (nonserial)
- 9 Dictionaries and encyclopedias
- 11 Builders' and contractors' bulletins  
     Including prices, permits, etc.
- Directories of building supply companies, builders, and contractors
- 12 General works  
 United States
- 12.5 General works
- 13.A-Z By region or state, A-Z
- 13.2.A-Z Other regions or countries, A-Z
- History and description
- 15 General works
- 16 Ancient  
     Including primitive construction
- 17 Medieval
- 18 Modern to 1800
- 19 1801-
- 21-127 Country divisions (Table T1a)  
     Add country number in table to TH0
- Biography
- 139 Collective
- 140.A-Z Individual, A-Z
- General works
- 144 Early to 1850
- 145 1850-
- 146 Elementary works
- 148 Popular works
- 149 Juvenile works
- 151 Pocketbooks, tables, etc.  
     Cf. TA151 Engineering pocketbooks  
     Cf. TA685 Iron and steel construction  
     Cf. TH434+ Estimates, quantities and costs
- 153 General special  
     Including dangerous structures, safety of exit, moving of structures, cold weather conditions
- 154 Tropical conditions  
     Cf. NA2542.T7 Climate and architecture
- 155 Addresses, essays, lectures
- 159 Building as a profession
- Study and teaching
- 165 General works
- 166 Examinations, questions, etc.  
 Special schools  
     United States
- 210 General works

- Study and teaching
  - Special schools
    - United States -- Continued
- 211 Correspondence schools
- 213.A-Z Other countries. By country and city, A-Z
- Research
  - 213.5 General works
  - 213.7.A-Z By region or country, A-Z
- Communication of building information
  - 215 General works
  - 216 Information services
- (219-255) Building laws, legislation, etc.
  - see class K
- 257 Patents
- 350 Engineering of the subdivision
  - Cf. TD160+ Planning and laying out of cities
- The building site
  - Cf. NA2540.5 Site planning (Architecture)
  - Cf. TK4399.B8 Electric lighting
- 375 General works
- 380 Landscape construction by builders
- 383 Prevention of soil erosion
- 385 Building layout
- 420 Building standards
- 425 Specifications (General)
  - For specifications for special types of building see TH4311+
- 431 Drawings
  - Including how to read plans
  - Cf. T379 Blueprint reading
  - Cf. TH2031 General details
- (432) Bookkeeping, etc. for the builder
  - see HF5686.B7
- Estimates. Measurements. Quantities and cost
  - General works
    - 434 Early to 1890
    - 435 1890-
    - 437 General special
      - Including data processing
- Management of the construction site. Superintendence of building construction
  - 438 General works
  - 438.13 Building information modelling
  - 438.15 Cost effectiveness
  - 438.2 Quality control
  - 438.4 Scheduling
  - 439 Building inspection
  - 441 Building failures, errors, defects, etc.
    - Cf. TH9025+ Protection of buildings
  - 443 Building accidents and their prevention
  - Maintenance and repair see TH3301+
  - 447 Wrecking
  - 449 Salvaging
  - 451.A-Z Building companies, A-Z
    - Including circulars, prospectuses, etc.
  - 453 Building performance

TH	BUILDING CONSTRUCTION	TH
455	Catalogs of building supplies (General) Cf. TH1655 Metalwork Cf. TH2055 Building fittings Architectural engineering. Structural engineering of buildings Cf. TH1111 Wooden buildings	
845	Treatises	
846	Elementary textbooks	
851	Pocketbooks, tables, etc.	
860	Modular coordination Cf. NA2685+ Drafting Cf. NA2750+ Design	
880	Sustainable buildings. Sustainable construction Including building while following sustainable construction methods For works on ecological houses see TH4860 Cf. NA2542.36 Architecture	
891	Wind-pressure	
893	Rain loads	
895	Snow loads Insulation see TH1715+ Architectural acoustics see NA2800 Soundproof construction see TH1725	
	Construction equipment in building Including machinery used in building construction Cf. TJ793.2 Internal combustion engines for construction equipment	
900	General works	
915	Tools and implements (General) Cf. TH5618 Carpenters' tools Cf. TH6299 Plumbers' tools	
	Systems of building construction Cf. TA401+ Building materials	
1000	Industrialized building Cf. TH1098 Prefabricated and portable buildings Fire-resistive or fireproof building construction Cf. TH9057+ Lightning rods Cf. TH9111+ Fire prevention Cf. TP265+ Chemistry of fire and fire prevention	
1061	Periodicals, societies, etc.	
1065	General works	
1069	General details Including fire doors and shutters, wire glass windows, etc. For fire escapes see TH2274 Systems of fireproofing and special materials Including catalogs	
1073	Wood and other organic material Including impregnated wood, fire-retardant coatings	
1074	Fire resistant plastics	
1074.5	Fire resistant polymers	
1075	Asbestos Earthenware, brick, tile, terra-cotta Including combinations with steel, etc.	
1077	General and solid forms	
1083	Hollow earthenware	
1087	Cement and concrete Including reinforced concrete Cf. TH1461+ Concrete building construction	
1088	Reinforcing materials	

- Systems of building construction
  - Fire-resistive or fireproof building construction
    - Systems of fireproofing and special materials -- Continued
    - 1088.5 Smoke control systems
    - 1088.56 Steel
    - 1089 Tile-concrete combination systems
    - Tests of fire-resistant construction (General). Fire testing
      - Including artificial tests
      - For tests of special systems see TH1099
      - Cf. TH9446.3+ Fire testing of materials
    - 1091 General works
    - 1092 Tests of building materials
    - 1093 Tests in fires
      - General conflagrations, not artificial tests
  - Earth movements and building. Subsidences, etc.
    - 1094 General works
    - 1095 Earthquakes and building
      - Cf. TA654.6 Earthquake engineering
      - Cf. TA658.44 Earthquake resistant design
    - 1095.5 Construction on contaminated sites
    - 1096 Stormproof construction
    - 1096.5 Vertical evacuation structures
    - 1097 Bombproof construction. Bombproof shelters. Fallout shelters
      - Cf. TH7392.A8 Heating and ventilation of atomic bomb shelters
    - Waterproof construction see TH9030+
    - 1098 Prefabricated and portable buildings
      - Cf. NA8480 Architecture
    - 1099 Air-supported structures
    - 1100 Lightweight construction
    - 1101 Wood building construction
      - For floor framing see TH2311
      - For roof framing see TH2393
      - For scaffolding see TH5281
      - For centering and centers see TH5591
      - For carpentry and joinery see TH5601+
      - Cf. TA666+ Wooden construction (General)
    - 1111 Architectural engineering of wooden buildings
    - Architectural woodwork
      - Cf. TH8581+ Decorative woodwork
    - 1151 General works
    - 1155 Catalogs
    - Masonry building construction
      - Cf. TA670+ Masonry construction (General)
      - Cf. TH5311+ Practical masonry
    - 1199 General works
    - 1201 Stone building construction
      - For stone construction (General) see TA676
      - For artificial stone building construction see TH1451
      - For stonemasonry and stonecutting see TH5401+
    - 1301 Brick building construction
      - For brick construction (General) see TA679
      - For bricklaying see TH5501+
    - (1375) Terra-cotta and hollow tile building construction
      - see TH1077+
    - 1421 Pisé, earth-wall or pressed-earth building construction
    - 1431 Ice and snow building construction

- Systems of building construction -- Continued
- 1451 Artificial stone building construction  
Concrete building construction. Cement and stucco  
For concrete construction (General) see TA680+
- 1461 General works
- 1465 Specifications
- 1491 Concrete-block building construction
- 1498 Precast concrete construction
- 1501 Reinforced concrete construction  
For reinforced concrete construction (General) see TA682.92+  
For reinforced concrete fireproof building construction see TH1087
- 1550 Staff building construction. Papier mâché, etc.
- 1555 Fiber building boards  
Cf. TH1715+ Insulation
- 1560 Glass construction  
Cf. TA450 Glass (Structural material)  
Cf. TH8251+ Glazing  
Iron and steel building construction  
For iron and steel construction (General) see TA684+  
Cf. TH4818.S73 Steel house construction  
General works  
Before 1890  
1890-  
Juvenile works  
Estimates  
Pocketbooks, tables, etc.  
Catalogs of buildings  
Forms of construction
- 1610 Space frame structures
- 1611 Architectural metalwork. Sheet metal, castings, etc.  
For gratings see TH2273
- 1651 General works
- 1655 Catalogs (General)  
Special materials
- 1675 Metal sheathing. Metal lathing  
Reinforcing materials in fireproof building construction see TH1088
- Insulation and insulating materials  
Including thermal properties of walls  
Cf. TJ163.26+ Energy conservation  
Cf. TP490+ Refrigeration
- 1715.A1 Periodicals, societies, etc.
- 1715.A2-Z General works
- 1718 Cellulose insulation
- 1719 Sealing. Airtight construction
- 1720 Sheathing papers
- 1725 Soundproof construction. Noise in buildings  
Cf. NA2800 Architectural acoustics
- 1727 Acoustical materials
- Details in building design and construction
- 2025 General works
- 2031 Structural drawings  
Cf. TH431 Drawings (General)
- 2055 Catalogs of building fittings (General)  
Cf. TH1155 Architectural woodwork  
Cf. TH1655 Architectural ironwork  
Cf. TH6010+ Building fittings and their installation

## Details in building design and construction -- Continued

2060	Joints in buildings
2101	Foundations
	Including works from the engineering standpoint
	Cf. TH2221 Foundation walls
	Cf. TH5201 Practical construction
2140	Piers
	Arches and vaults
2150	General works
2160	Vaults
	Domes
	Cf. TH2416+ Shell roofs
2170	General works
2170.5	Concrete domes
2170.52	Geodesic domes
2170.7	Masonry domes
2170.85	Wooden domes
2180	Towers
	Walls
	Cf. TH5311+ Masonry
2201	General works
2221	Foundation walls
	Walls above surface
2231	General works
	Exterior walls
2235	General works
2238	Curtain walls. Cladding
2238.5	Siding
2238.7	Exterior insulation and finish systems
2239	Interior walls
	Special materials
2243	Brick walls
2244	Clapboard walls
2245	Concrete walls
2247	Sheet metal walls
	Cf. TH1651+ Architectural metalwork
2249	Stone walls
	Wall details
2251	General works
2251.2	Balconies
2251.5	Veneers
	Other special accessories
	Columns. Capitals
2252	General works
2253	Catalogs
2255	Abutments
	Building-integrated photovoltaic systems see TK1087
2258	Fixed ladders
2259	Ramps
	Window and door openings and their fittings
	Including lintels, plate-bonds, sills, reveals, caps, trimmings
2261	General works
2264	Window openings
2265	Bay and bow windows

- Details in building design and construction
- Other special accessories -- Continued
- Windows and doors and their fittings
  - Cf. TH1069 Fire doors and shutters
  - Cf. TH1155 Woodwork catalogs
  - Cf. TH8251+ Glazing
  - Cf. TH9720+ Burglar-proof construction
- 2270 General works
- 2271 Catalogs of door and window fittings
- 2272 Sashes. Frames
- 2273 Gratings. Window guards
- 2274 Fire escapes and fittings
- 2275 Windows
  - For skylights see TH2486+
- 2276 Shutters, blinds, screens, and other window fittings
- Doors. Sliding and folding doors. Screen doors. Fire doors
- 2278 General works
- 2279 Door fittings. Locks, knobs, etc.
- Chimneys and flues
  - Cf. TH4591 Chimneys for powerplants
  - Cf. TJ330+ Boiler plant engineering
- 2281 General works
- 2284 Smoky chimneys and their remedy
  - Cf. TD884 Smoke prevention
- 2285 Soot removal
- Fireplaces see TH7421+
- 2288 Mantelpieces
  - Cf. TH1151+ Architectural woodwork
- Framing (House framing, etc.)
  - Cf. TH1101 Wood building construction
  - Cf. TH1610+ Iron and steel building construction
- 2301 General works
- 2311 Floor framing
  - Cf. TH2521+ Floors and flooring
- Roof framing, roofs and roofing
  - Cf. TH5619 Steel square and its uses
- 2391 General works
- 2392 Roof trusses
- 2393 Roof framing. Rafters, etc.
- 2397 Special tools and appliances
  - Including rafter gages
- 2398 Rafter tables, etc.
- Roofs
- 2401 General works
- 2404 Retractable roofs
- 2405 Mansard roofs
- 2407 Saddle roofs
- 2409 Flat roofs
- Shell roofs
  - Periodicals, societies, etc.
- 2416.A1 General works
- 2416.A3-Z Suspension roofs
- 2417 Roofs for special parts of the building
- 2421 General works
- 2423 Bay window roofs
- 2425 Porch and veranda roofs

## Details in building design and construction

## Roof framing, roofs and roofing -- Continued

## Roofing

- 2430 Periodicals, societies, congresses, etc.
- 2431 General works
- 2433 Catalogs of roofing (General)
- 2435 Thatch roofing
- 2438 Board roofing
- 2441 Shingle roofing
- Stone roofing
- 2444 General works
- 2445 Slate roofing
- 2446 Concrete roofing
- 2447 Plastic roofing
- 2448 Tile roofing
- 2449 Textile roofing
- Composition roofing
- 2450 General works
- 2451 General special
  - Including tar, felt, gravel, slag, etc.
- 2452 Single-ply roofing
- Metal roofing
  - Cf. TH1651+ Architectural woodwork
  - Cf. TS600+ Roofing catalogs
- 2454 General works
- 2455 Tin roofing. Tin shingling
- 2457 Iron and steel roofing
- 2458 Lead and copper roofing
- 2459 Aluminum roofing
- Roof details
  - Cf. TH1651+ Architectural woodwork
  - Cf. TH2433 Roofing catalogs
- 2481 General works
- Cornices and moldings
  - Cf. TH1151+ Architectural woodwork
  - Cf. TH2553 Interior cornices and moldings
- 2482 General works
- 2483 Catalogs
- Skylights and ventilators
- 2486 General works
- 2487 Skylights
- (2489) Ventilators
  - see TH7683.V4
- 2491 Hatchways. Scuttles
- 2493 Gutters, eave troughs, down spouts, and conductors
- 2495 Finials and bannerets. Vanes
- Floors and flooring
  - For floors and flooring in special types of buildings, see the type of building, e.g. TH4534
  - Packhouses
  - Cf. TH2311 Floor framing
  - Cf. TH8541+ Tile
- 2521 General works
- Flooring
  - For carpets, rugs, etc. see TS1772+
- 2525 General works
- 2528 Maintenance and care



## Details in building design and construction

## Floors and flooring

## Flooring -- Continued

- 2529.A-Z Special types. By material, A-Z
- 2529.C6 Concrete (Nonstructural)
- 2529.E27 Earth
- Linoleum see TS1779.L5
- 2529.M4 Metal
- 2529.P5 Plastic
- Including asphalt and vinyl
- 2529.S7 Stone
- Tile (Ceramic) see TH8541+
- 2529.W6 Wood. Parquetry

## Ceilings and centerpieces

Cf. NA2950 Architecture

Cf. TH8120+ Plastering

- 2531 General works
- 2533.A-Z Special types, A-Z
- 2533.S88 Suspended
- 2533.W66 Wooden

## Partitions

- 2541 General works
- 2544 Shoji screens
- 2547 Wainscots
- 2553

## Moldings and cornices (Interior)

Cf. TH1155 Woodwork catalogs

Cf. TH2482+ Exterior cornices

Cf. TH8581+ Decorative woodwork

2555

## Shelving

For mantelpieces see TH2288

- 3000.A-Z Special rooms, A-Z
- 3000.A74 Areaways
- 3000.A86 Attics
- 3000.B36 Basements
- 3000.B38 Bathrooms
- 3000.C45 Chashitsu
- 3000.C55 Closets
- 3000.C73 Crawl spaces
- 3000.K58 Kitchens
- 3000.L63 Lofts
- 3000.R43 Recreation rooms
- 3000.S85 Sunspaces

## Maintenance and repair

Cf. TH4817+ Dwellings

Cf. TH6013 Maintenance of equipment

Cf. TX323 Care of the house (Home economics)

- 3301 General works
- 3311 General special
- Maintenance
- 3351 General works
- 3361 General special
- Repair. Rebuilding. Remodeling
- 3401 General works
- 3411 General special

## Buildings: Construction with reference to use

Including specifications and construction of individual or named buildings

## Buildings: Construction with reference to use -- Continued

- Public buildings
  - Cf. NA4170+ Architecture
- 4021 General works
- (4161) Monuments, memorial arches
  - see NA9320+
- (4171) Mausoleums, etc.
  - see NA6120+
- 4221 Churches
  - Cf. NA4790+ Architecture
- 4224 Pagodas
  - Other public buildings, see TH4755+
- Commercial buildings. Office buildings
  - Cf. NA6210+ Architecture
- 4311 General works
- 4315 Estimates. Measurements. Quantities and costs
- (4411) Transportation buildings
  - see NA6300+ TA1225
- (4421) Railway stations
  - see NA6310+
- (4431) Dock buildings
  - see TC355
- (4441) Ferry houses
  - see NA6330
- Storage buildings
  - Warehouses
    - Cf. NA6340+ Architecture
  - Grain elevators
    - Cf. NA6350 Architecture
    - Cf. TH4498 Bins (General)
    - Cf. TJ1415+ Grain-handling machinery
  - Coal-handling plants
    - Cf. TH4498 Bins (General)
    - Cf. TJ1405 Coal-handling machinery
  - Icehouses (Commercial)
    - Cf. NA6360 Architecture
  - Lumberyards, sheds, etc.
  - Bins (General)
    - Cf. TH4461 Grain elevators
    - Cf. TH4471 Coal-handling plants
  - Other storage buildings
    - Cf. NA6290+ Architecture
- Factories and mills. Industrial plants
  - Cf. NA6396+ Architecture
  - Cf. TN675.5+ Metallurgical plants and furnaces
  - Cf. TS186 Factory buildings
- 4511.A1 Periodicals, societies, etc.
- 4511.A2-Z General works
- 4516 General drawings of factory construction
- 4518 Underground factories
- 4521 Textile mills
- 4522 Clothing factories
- 4524 Chemical plants
- 4526 Food processing plants
- 4531 Breweries
- 4532 Distilleries

- Buildings: Construction with reference to use  
 Factories and mills. Industrial plants -- Continued
- 4533 Electronics plants
  - 4534 Packinghouses
  - 4536 Paper and pulp mills
  - 4536.5 Printing plants
  - 4537 Rolling mills
  - 4538 Water treatment plants
  - 4541 Other special factories and mills
  - 4561 Mine buildings and other structures
  - 4571 Refineries
  - Power plants
    - 4581 General works
    - 4591 Chimneys. Smokestacks
      - Cf. TD884 Smoke prevention
      - Cf. TH2281+ Chimneys (General)
      - Cf. TJ330+ Boiler plant engineering
  - Educational buildings
    - (4621) Schools
      - see LB3205+ NA6600+
    - (4631) Libraries
      - see Z679
    - (4641) Art museums and galleries
      - see N450+
    - (4651) Exhibition buildings
      - see NA6750; T391+
  - 4652 Research buildings. Laboratories
    - Cf. NA6751 Architecture
  - 4655 Radio stations
  - 4656 Television stations
  - (4661) Hospitals
    - see RA960+
    - For psychiatric hospitals see RC438.92+
  - 4711 Recreation buildings. Park buildings
    - Cf. NA6800+ Architecture
  - 4713 Bull rings
  - 4714 Stadiums
  - Other public buildings
    - 4755 Restaurants
      - Cf. NA7855+ Architecture
    - 4758 Embassy buildings
    - 4761 Baths
      - Cf. NA7010 Architecture
      - Cf. RA605+ Public health
    - 4763 Swimming pools
    - (4765) Public comfort stations
      - see RA607
  - 4800 Clubhouses
    - Cf. NA7910+ Architecture
  - Houses. Dwellings
    - Cf. NA7100+ Architecture
    - Cf. TK7881.25 Home automation
  - 4805 Periodicals, societies, congresses, etc.
  - History and description
    - 4808 General works
    - 4809.A-Z By region or country, A-Z

## Buildings: Construction with reference to use

## Houses. Dwellings -- Continued

- 4811 General works
- 4811.5 Juvenile works
- 4812 General special
- 4813 Handbooks, manuals, etc.
- 4814 Research
- 4815 Amateur construction manuals
- 4815.4 House construction contracting
  - Including hiring a contractor
- 4815.5 Standards. Specifications
- 4815.8 Estimates. Measurements. Quantities and costs
- Remodeling
  - 4816 General works
  - 4816.15 Access for people with disabilities. Barrier-free design
  - 4816.2 Additions
  - 4816.3.A-Z Special rooms, A-Z
    - 4816.3.A77 Attics
    - 4816.3.B35 Basements
    - 4816.3.B37 Bathrooms
    - 4816.3.B43 Bedrooms
    - 4816.3.C45 Children's rooms
    - 4816.3.K58 Kitchens
    - 4816.3.L57 Living rooms
    - Office decoration see NK2195.O4
  - 4816.3.O34 Offices
- Maintenance and repair
  - 4817 General works
  - 4817.3 Amateurs' manuals
  - 4817.5 State of repair. House buyers' guides
    - Cf. HD1379 Popular guides in real estate business
- 4818.A-Z Construction in special materials, A-Z
  - 4818.A3 Adobe. Earth
  - 4818.B3 Bamboo
  - 4818.B7 Brick
  - 4818.C6 Concrete blocks
  - Earth see TH4818.A3
  - 4818.M37 Masonry
  - 4818.P3 Paperboard
  - 4818.P53 Plaster
  - 4818.P7 Precast concrete
  - 4818.R4 Reinforced concrete
  - 4818.S55 Sod
  - 4818.S6 Soil cement
  - 4818.S73 Steel
  - 4818.S75 Stone
  - 4818.S77 Straw
  - 4818.T57 Tires
  - 4818.W6 Wood
- 4819.A-Z Special methods of construction, A-Z
  - 4819.E27 Earth sheltered houses
  - 4819.M6 Mobile homes
    - Cf. TL297+ Trailers
    - Cf. TX1100+ Mobile home living
  - 4819.P7 Prefabricated
  - 4819.S5 Slab-on-ground

## Buildings: Construction with reference to use

## Houses. Dwellings -- Continued

## Special types of houses

Cf. TH4920 Farmhouses

- 4820 Apartment houses
- 4822 Blackhouses
- 4825 Terrace houses
- 4835 Summer homes
- 4840 Log cabins
- 4850 Country homes
- 4860 Ecological houses
- 4870 Yurts
- 4880 Fishing lodges
- 4885 Tree houses
- 4890 Other shelters (not A-Z)

## Farm buildings

Cf. NA8200+ Architecture

Cf. S770+ Agriculture

- 4911 General works
- 4916 Handbooks, tables, etc.
- 4920 Farmhouses
  - Cf. NA8208+ Architecture
- 4930 Barns. Poultry houses
- 4935 Silos
- 4940 Machine-tractor stations
- Minor buildings. Fences, gates, etc.
- 4955 General works
- 4960 Garages. Carports
  - Cf. NA8348 Architecture
- Garden structures
  - Including building of structural elements for landscape construction
- 4961 General works
- 4961.5 Barbecues
- 4962 Garden toolsheds
- 4963 Gazebos
- 4965 Fences, gates, etc.
- 4967 Playhouses, Children's
  - Cf. TH4885 Tree houses
- 4970 Terraces, patios, decks, garden walks, etc.
  - Cf. NA8375 Architecture
- 4975 Privies. Outhouses
  - Cf. TD775 Sewage disposal
- 4977 Fountains
  - Cf. NA9400+ Architecture

## Construction by phase of the work (Building trades)

For works from the engineering standpoint, see TH1101+

- 5011 General works
- 5101 Earthwork and excavation in building
  - Including operations, tools, etc.
- 5201 Foundation work in building
  - Cf. TA775+ Foundations (General engineering)
- Temporary structures in building
- 5280 General works
- 5281 Scaffolding in building. Shoring. Staging
  - Cf. TA682.44 Formwork for concrete construction
  - Cf. TH5591 Centering

## Construction by phase of the work (Building trades) -- Continued

- Masonry in building
  - Class here practical methods, operations, tools, etc.
  - Cf. TA425+ Masonry materials
  - Cf. TA670+ Masonry construction (General)
  - Cf. TH1199+ Masonry building construction (Engineering)
- 5311 Treatises
- 5313 Elementary manuals
- 5317 Addresses, essays, lectures
- 5321 General special
- 5325 Masonry as a profession
  - Including stonemasonry and bricklaying
- 5330 Estimates, quantities and cost measurements, etc.
- 5371 Pointing and stucco
- Stonemasonry and stonecutting
  - For stone building construction see TH1201
  - For walls, design, etc. see TH2201+
- 5401 General works
- 5411 Elementary manuals
- 5421 General special
- Stonemasonry as a profession see TH5325
- 5440 Tools for stonemasons and stonecutters
- Bricklaying in building
  - For brick building construction see TH1301
  - For walls, design, etc. see TH2201+
- 5501 General works
- 5511 Elementary manuals
- Bricklaying as a profession see TH5325
- 5520 Cleaning of masonry, stone, brick, etc.
- (5551) Cement and concrete work
  - see TA680+
- 5591 Centering of arches
  - For scaffolding see TH5281
- Carpentry and joinery
  - Cf. TH1101 Wood building construction
  - Cf. TS840+ Woodworking
- 5601 Periodicals
- General works
- 5603 Early to 1800
- 1800-
  - 5604 General works
  - 5605 Graphic treatises
    - Plates or drawings, with text subordinate
  - 5606 Beginners' manuals. Elements
  - 5607 Popular works. Home carpentry
  - 5608 Pocketbooks and tables. Handbooks and compilations of rules
  - 5608.5 Examinations, questions, etc.
  - 5608.7 General special
  - 5608.8 Vocational guidance
  - 5609 Specifications
  - 5611 Drawing and drawings for carpentry and joiner
  - Mathematics
    - 5612 General works
    - 5613 Slide-rule calculations in carpentry and joinery
    - Estimates, quantities and cost, measurements, etc.
    - 5614 Before 1850

- Construction by phase of the work (Building trades)
- Carpentry and joinery
- Estimates, quantities and cost, measurements, etc. -- Continued
- 5615 1850-
- 5618 Tools for carpenters and joiners  
Including catalogs
- 5619 The steel square and its uses
- Finish carpentry
- 5640 General works
- Joinery
- 5662 General works
- 5663 Elementary manuals
- Stairbuilding
- Including iron, wood, and stone
- 5667 General works
- Stair and handrail joinery. Wooden stairbuilding
- 5670 General works
- Stair joinery
- 5671 General works
- 5673 Tables of treads and risers
- Handrail joinery. Stair railings
- 5675 General works
- 5677 Tools and appliances for handrail joinery
- 5680 Catalogs
- 5691 Mitering  
For exterior moldings see TH2482+  
For interior moldings see TH2553
- 5695 Trim carpentry
- Metalworking
- Cf. TH1651+ Architectural metalwork
- 5701 General works
- Steel-girder riveting, etc. see TA891
- Building fittings and their installation
- Including mechanical equipment
- Cf. TH2055 Catalogs of building fittings
- Cf. TK4001+ Applications of electric power
- 6010 General works
- 6012 Building control systems  
Cf. TH7466.5 Heating control  
Cf. TH7687.7 Air conditioning systems and details
- 6013 Maintenance and repair
- Environmental engineering of buildings. Sanitary engineering of buildings
- Class here works on general and household plumbing, heating, lighting, air conditioning, soundproofing, etc., treated collectively
- Class special aspects with the subject, e. g. TH7201+ Heating; TH1725 Soundproofing
- 6014 Periodicals, societies, congresses, etc.
- 6014.5 Dictionaries and encyclopedias
- 6015 Directories
- 6021 General works
- 6024 Handbooks, manuals, etc.
- 6025 General special
- 6028 Addresses, essays, lectures
- 6031 Design of systems
- 6051 Specifications
- 6053 Building orientation
- 6057.A-Z Installations in special classes of buildings. By class, A-Z

- Environmental engineering of buildings. Sanitary engineering of buildings  
Installations in special classes of buildings. By class, A-Z -- Continued
- 6057.A6 Apartment houses. Dwellings  
6057.C6 Canneries  
Dwellings see TH6057.A6
- 6057.F3 Factories  
6057.F35 Farm buildings  
6057.I53 Industrial buildings  
6057.L3 Laundries, Public  
6057.M87 Museum buildings  
6057.O4 Office buildings  
6057.P8 Public buildings  
6057.R4 Restaurants, lunchrooms, etc.  
6057.T23 Tall buildings  
6057.T3 Theaters  
6057.W55 Wineries
- 6059.A-Z Installations within special buildings. By name, A-Z
- Sanitary crafts  
General works  
6071 Early to 1875  
6072 1875-  
6073 Textbooks  
6081 Study and teaching. Schools  
(6085) Legislation  
see class K
- Plumbing and pipefitting  
Including household plumbing  
Cf. TH6703+ Pipefitting
- 6101 Periodicals, societies, etc.  
6107 Collected works (nonserial)  
6109 Dictionaries and encyclopedias  
6112 Directories  
History  
6115 General works  
Special countries  
United States  
6116 General works  
6117.A-.W States, A-W  
6118.A-Z Cities, A-Z  
6119.A-Z Other regions or countries, A-Z
- General works  
6121 Early to 1875  
6122 1875-  
6123 Textbooks  
6124 Popular works. Juvenile works  
6125 Pocketbooks, tables, etc.  
6126 General special  
6127 Addresses, essays, lectures  
6128 Examinations, questions, etc.  
6130 Vocational guidance  
Study and teaching  
6131 General works  
By region or country  
Individual institutions are classed by state or country without further subdivision  
United States  
6151 General works



- Plumbing and pipefitting
  - Study and teaching
    - By region or country
      - United States -- Continued
        - 6152.A-Z By region or state, A-Z
        - 6153.A-Z Other regions or countries, A-Z
    - Laws and regulations
      - (6161-6175) see class K
    - General special
      - 6225 Specifications
      - 6231 Drawing and drawings
      - Bookkeeping for plumber and pipefitter see HF5686.P7
      - Estimates. Measurements. Quantities and costs
        - 6234 Early to 1850
        - 6235 1850-
      - 6238 Superintendence
      - 6239 Inspection
      - 6241 Testing
        - Cf. TH6617 Testing for leakage
    - Plumbing fixtures and fitting supplies
      - 6249 General works
      - 6252 Standards
      - 6255 Catalogs of plumbing and fitting supplies
        - Cf. TH6299 Plumbers' tools
        - Cf. TH6529 Catalogs of water-supply fixtures
        - Cf. TH6589 Catalogs of drainage fixtures
        - Cf. TH6729 Catalogs of pipefittings
  - (6280) Systems of domestic water supply, drainage, etc.
    - see TH6521+
  - Plumbing work
    - Cf. TH6681+ Maintenance work
  - 6291 General works
    - Laying pipes. Joints. Pipefitting
      - Cf. TH6703+ Pipefitting (General)
    - 6293 General works
    - 6294 Pipe bending
    - 6295 Joint-wiping
    - 6297 Soldering, solder, and fluxes in plumbing
      - Cf. TH6691 Lead burning
    - 6299 Plumbers' tools and apparatus
      - Cf. TH6255 Catalogs of plumbing fixtures, etc.
  - Plastics in plumbing
    - 6325 General works
    - 6330 Plastic tubes and pipes
      - Cf. TA448 Testing of plastic pipes
      - Cf. TP1185.P5 Manufacture of plastic pipes
  - Plumbing of special rooms and areas
    - Bathrooms. Toilet rooms. Lavatories
      - For public toilets see TH6515.P9
    - 6485 General works
    - 6486 General special. Specifications, etc.
    - 6487 Systems
      - Details. Fixtures
      - 6488 General works
      - 6489 Catalogs of bathroom fixtures
      - 6490 Basins

- Plumbing and pipefitting
  - Plumbing of special rooms and areas
    - Bathrooms. Toilet rooms. Lavatories
      - Details. Fixtures -- Continued
        - Baths
          - Cf. TH6518.B3 Public baths
        - 6491 General works
        - 6492 Shower baths. Sprays
        - 6493 Tubs
        - 6494 Foot baths
        - 6495 Sitz baths
        - 6496 Bidets
        - 6497 Soil fixtures
        - 6498 Water closets. Toilets
        - 6499 Urinals
      - 6500 Flush tanks and auxiliary valves, etc.
      - 6501 Hot tubs
    - Laundry plumbing
      - For public laundry plumbing see TH6518.L3
  - 6502 General works
  - 6503 Systems
    - Details
      - 6505 Washtubs
  - Kitchen and pantry plumbing
    - For range water-heating see TH6553+
    - For kitchen boilers see TH6563
    - For kitchen and laundry drainage systems see TH6661
    - For refrigerator plumbing see TH6671.R3
  - 6507 General works
  - 6508 Catalogs
  - 6509 Systems
    - Details
      - 6511 Sinks
      - 6512 Grease traps
        - For traps (General) see TH6631+
- 6515.A-Z Plumbing of special buildings, A-Z
  - 6515.A6 Apartment house plumbing
  - 6515.F2 Factory plumbing
  - 6515.F3 Farmhouses
  - Hospitals and health facilities see RA969.33
  - 6515.H8 Hotel plumbing
  - 6515.O3 Office building plumbing
  - 6515.P9 Public toilet plumbing
  - 6515.S4 Schools, universities, etc.
  - 6515.T35 Tall buildings
  - Tenement house plumbing see TH6515.A6
- 6518.A-Z Plumbing for special establishments, A-Z
  - 6518.B2 Bar (saloon) plumbing
  - 6518.B3 Baths, Public
  - 6518.C3 Carriage house plumbing
  - Laundries, Domestic (Plumbing) see TH6502+
  - 6518.L3 Laundries, Public
  - 6518.S6 Soda fountain plumbing
    - For soda water apparatus see TP635

## Plumbing and pipefitting -- Continued

## Water supply

For municipal water supply see TD201+

For cold water supply see TH6541+

For hot water supply see TH6551+

For pumps see TJ899+

6521

General works

6523

Backsiphonage. Cross-connections

(6525)

Rural domestic water supply

see TD927

## Details

6527

General works

6528

Valves. Faucets

For filters see TD449

6529

Catalogs of water-supply fixtures

Catalogs of pipefittings see TH6729

6531

## Theory

(6535)

Domestic means of supply

(6538)

Water measurement and meters

see TD499+

## Cold water supply

6541

General works

## Systems

6542

General works

6544

Flushing systems (Automatic, etc.)

6545

Storage systems. Storage tanks

For fire storage tanks or towers see TH9332+

(6547)

## Details

see TH6527+

## Hot water supply. Water heaters

6551

General. Tank systems. Cylinder systems

## Systems of heating

For systems of supply see TH6567

6552

General works

## Range water heaters

For kitchen plumbing (General) see TH6507+

For range boilers see TH6563

6553

General works

6554

## Types

## Details

6555

Water backs

6556

Water heating coils

6557

Thermostats

## Steam water heaters

6558

General works

6559

Steam coil tanks

6560

Steam condensation heating tanks

6561

Gas water heaters

6561.5

Electric water heaters

6561.7

Solar water heaters

Cf. TJ809+ Solar energy

## Storage of hot water

6562

General works

6563

Kitchen boilers and supports

6564

Hot water tanks (used with water heaters)

Explosions and their prevention. Kitchen boiler explosions

- Plumbing and pipefitting
  - Hot water supply. Water heaters
    - Explosions and their prevention. Kitchen boiler explosions -- Continued
  - 6565 General works
  - 6566 Valves and blow-off cocks
    - Cf. TJ350+ Safety appliances for steam boilers
  - 6567 Systems of supply
    - For systems of heating see TH6552+
  - 6568 Connections and circulation piping
  - 6569.A-Z Special applications of water supply, A-Z
    - Cf. TH9332+ Connections for fire extinction
    - Cf. TH9365 Connections for fire extinction
  - 6569.D7 Drinking fountains
  - 6569.F7 Fountains
  - 6569.S7 Sprinklers
- House drainage
  - 6571 General works
  - 6581 General special
  - 6589 Catalogs of drainage fixtures, traps, etc.
    - For catalogs of plumbing and fitting supplies see TH6255
    - For catalogs of closets, basins, etc. see TH6489
    - For catalogs of pipefittings see TH6729
  - 6591 Theory
    - Including expansion of drainage system
  - Systems
    - 6602 One-pipe systems
    - 6604 Two-pipe systems
    - 6607 Mechanical discharge systems
    - 6609.A-Z Special systems. By name of patentee or manufacturer, A-Z
    - (6610) Work
    - 6613 Connections
    - 6615 Roughing in
    - 6617 Testing for leakage
      - Testing with compressed air, water, smoke, peppermint, etc.
  - Details. Fittings
    - For catalogs of general drainage fittings see TH6589
  - 6625 General works
  - 6628 Drain piping (General)
    - For soil piping see TH6653
    - For waste piping see TH6658+
    - For vent piping see TH6668
  - Traps and vents. Siphonage
    - For drain traps see TH6647
  - 6631 General works
  - 6633 Special types of traps
    - For grease traps see TH6512
  - 6635 Cleanouts
    - For drain cleanout ferrules see TH6646
  - (6637) Cesspools
    - see TD775
  - (6638) Septic tanks
    - see TD778
  - Elements of drainage system
    - 6641 House sewer
      - Outside of house, connecting house drain with main sewer

- Plumbing and pipefitting
  - House drainage
    - Elements of drainage system -- Continued
      - House drain
        - Horizontal piping in cellar, receiving all house drainage
      - 6642 General works
      - 6644 Supports for drains
      - 6646 Cleanout ferrules
        - For cleanouts (General) see TH6635
      - 6647 Special drain types
        - For traps (General) see TH6631+
        - Floor and area drains see TH6671.C3
      - 6649 Fresh air inlets
      - Rain leaders see TH2493
      - Soil stack systems
        - Class here draining sewage or sewage and wastes
      - 6651 General works
      - 6652 Soil stack
      - 6653 Soil piping
      - Waste stack systems
        - Class here draining wastes
      - 6655 General works
      - 6656 Waste stack
      - Waste piping
        - 6658 General works
        - Special waste systems
          - Cf. TH6671.A+ Special drainage applications
        - 6661 Kitchen and laundry wastes
          - For laundry plumbing see TH6502+
          - For kitchen plumbing see TH6507+
        - (6663) Laving systems and fixtures
          - see TH6485 TH6500
          - Toilet room plumbing and fixtures see TH6485+
      - Vent stack systems
        - 6665 General works
        - 6666 Vent stack. Roof outlets
        - 6668 Vent piping
          - For drain piping (General) see TH6628
        - Trap ventilation see TH6631+
      - 6671.A-Z Special drainages, A-Z
        - 6671.C3 Cellar or basement drainage
        - 6671.F6 Floor and yard drainage
        - 6671.R3 Refrigerator drainage
        - 6675.A-Z Special installations. By name, A-Z
          - Cf. TH6059.A+ Special sanitary installations
    - Maintenance and repair of plumbing
      - 6681 General works
      - 6685 Freezing and thawing of pipes
      - 6691 Lead burning. Autogenous soldering
        - For soldering in plumbing see TH6297
    - Pipefitting
      - Class here the installation of piping and fixtures for heating, lighting, etc.
      - For plumbing see TH6293+
      - For gas fitting see TH6840
      - For pipefitting for steam and hot water heating see TH7467+
- 6703 General works

- Plumbing and pipefitting
  - Pipefitting -- Continued
    - 6706 Textbooks
    - 6711 Pocketbooks, tables, rules
    - 6715 General special
    - 6721 Estimates of material and labor
    - 6723 Prices of pipefittings
    - 6729 Catalogs of pipefitting
      - Catalogs of drainage fixtures see TH6589
      - Catalogs of gas fixtures see TH6865
      - Catalogs of water supply fixtures see TH6529
      - Catalogs of plumbing and fitting supplies see TH6255
  - Gas in buildings. Building gas supply
    - Cf. TH6561 Gas water heating
    - Cf. TH7405+ Gas heating
    - Cf. TH7466.G3 Central heating with gas
    - Cf. TH7910+ Gas lighting
    - Cf. TX657.O6 Kitchen gas ovens
    - Cf. TX657.S6 Kitchen gas ranges
- 6800 Periodicals, societies, congresses, etc.
- 6810 General works
- 6820 General special
- Safety measures
  - 6830 General works
  - 6835 Venting for appliances
  - 6840 Piping installation. Pipefitting
  - Details
    - 6850 General works
    - Fixtures and appliances
      - 6855 General works
      - 6860 Maintenance and repair. Testing
      - 6865 Catalogs
      - 6870 Meters
      - 6875 Governors. Regulators
      - 6880 Burners
      - 6882 Flame monitors
      - Ignition devices
        - Including electric ignitors
    - 6885 General works
    - 6887 Pilot lights
- Heating and ventilation
  - Cf. TH7201+ Heating of buildings, including special aspects of both heating and ventilation
  - Cf. TH7647+ Ventilation only
- 7005 Periodicals, societies, congresses, etc.
- 7007 Dictionaries and encyclopedias
- General works
  - 7010 Early to 1860
  - 7011 1860-
  - 7012 Textbooks
  - 7015 General special
    - Including climatic factors
- (7081-7084) Legislation
  - see class K

## Heating and ventilation -- Continued

## Heating engineering. Industrial heating

Cf. TH6552+ Heating of water

Cf. TJ255+ Engines using heat as a source of power

Cf. TP363 Heating, drying, cooling, etc.

7121

General works

7124

Pocketbooks, tables, etc.

7135

Stoves, etc., for commercial kitchens

Kitchen stoves and ranges see TX657.S3+

Kitchen boilers see TH6563

Stove heating see TH7435+

Stove manufacture see TS425

## Industrial furnaces

Class furnaces for special uses in the field of application

Cf. TK4661 Electric furnaces

Cf. TN677+ Metallurgical furnaces

Cf. TP841+ Kilns

Cf. TS231 Cupola furnaces

7140

General works

7145

Solar furnaces

Cf. TJ809+ Solar energy

Solar water heating see TH6561.7

Solar heating of buildings see TH7413+

## Heating of buildings

Including domestic heating

Class here also works that discuss special aspects of both heating and ventilation of buildings

7201

Periodicals, societies, etc.

7205

Congresses

7207

Collected works (nonserial)

7209

Dictionaries and encyclopedias

## Directories

7212

General works

7213

Special localities

## History

7215

General works

7216.A-Z

Country divisions, A-Z

## General works

7221

Early to 1860

7222

1860-

7223

Textbooks

7224

Popular works. Juvenile works

7225

Pocketbooks, tables, rules, etc.

7226

General special

7227

Addresses, essays, lectures

7231

Study and teaching

7325

Specifications

7331

Drawings

Estimates. Measurements. Quantities and costs

7335

General works

7337

Schedules of prices

7338

Superintendence

7339

Inspection

7341

Testing

7345

Equipment and supplies

7355

Catalogs of heaters and fixtures (General)

7391.A-Z

Special rooms, A-Z

## Heating and ventilation

## Heating of buildings -- Continued

- 7392.A-Z Special classes of building. By name, A-Z  
Cf. TH7684+ Ventilation of special classes of buildings
- 7392.A6 Apartment houses  
7392.A8 Atomic bomb shelters  
7392.A9 Automobile service stations  
7392.C56 Chemical plants  
7392.C6 Churches  
College buildings see TH7392.S35  
7392.C65 Commercial buildings  
7392.C7 Creameries  
Dwellings see TH7201+  
Factories see TH7392.M6  
7392.F3 Farm buildings  
7392.F6 Foundries  
7392.G37 Garages  
Hospitals see RA969  
7392.I53 Industrial buildings  
7392.M2 Machine shops  
7392.M6 Mills and factories  
7392.O35 Office buildings  
7392.P33 Packinghouses  
7392.P8 Prisons  
7392.P9 Public buildings  
7392.R3 Railroad structures and buildings  
7392.S35 School buildings. University and college buildings  
7392.S65 Sports facilities  
7392.T34 Tall buildings  
7392.T47 Textile factories  
7392.T5 Theaters  
University buildings see TH7392.S35
- 7395.A-Z Special installations. By name, A-Z  
Cf. TH7685.A+ Ventilating installations
- Heating by special fuels or forms of energy  
Cf. TH7424+ Wood heating in fireplaces  
Cf. TH7437+ Wood stove heating
- 7400 Coal heating  
Cf. TH7428+ Grate heating  
Cf. TH7443+ Coal stove heating  
Oil heating  
Cf. TH7447+ Oil stove heating  
Cf. TH7466.O6 Central heating by oil
- 7402 Periodicals, societies, congresses, etc.  
7403 General works
- Gas heating  
Cf. TH7434 Gas fireplace heating  
Cf. TH7453+ Gas stove heating  
Cf. TH7466.G3 Central heating by gas
- 7405 Periodicals, societies, congresses, etc.  
7406 General works
- Electric heating  
Cf. TH7434.5+ Electric radiant heating  
Cf. TH7638 Heat pump systems
- 7409 Periodicals. Societies. Congresses  
7410 General works



- Heating and ventilation
  - Heating of buildings
    - Heating by special fuels or forms of energy -- Continued
      - Solar heating
        - Cf. TK1056 Solar powerplants
        - 7413 General works
        - 7413.5 Central solar heating plants with seasonal storage
        - 7414 Solar houses
      - Geothermal heating
        - 7416 General works
        - 7416.5 Geothermal district heating
        - 7417 Geothermal space heating
        - 7417.5 Ground source heat pump systems
    - Local heating
      - Cf. TH2055 Radiative heating (Open fires)
      - Cf. TH7435+ Convective heating (Stoves)
      - 7418 General works
      - 7419 General special
      - 7420 Theory
        - For fuel heating see TP315+
    - Radiative heating. Open fires
      - 7421 General works
      - 7422 Catalogs of fireplace and grate fixtures
        - For fireplaces see TH7425+
        - For grates see TH7428+
        - Cf. TH2055 Building fittings
    - 7423 Charcoal fires. Braziers
    - 7424 Fireplace heating with wood
      - General works
      - Fireplaces
        - 7425 General works
        - 7426.A-Z Special fireplaces. By name of manufacturer, etc., A-Z
          - Including catalogs
        - 7427.A-Z Details and fittings, A-Z
        - 7427.A5 Andirons
    - 7428 Grate heating with coal, etc.
      - General works
      - Grates
        - 7429.A1 General works
        - 7429.A2-Z Special types of grate. By name, A-Z
        - 7430 Catalogs (General)
        - 7431.A-Z Special grates. By name of manufacturer, etc., A-Z
          - Details and fittings
        - 7432 General works
        - 7433 Grate frames. Summer pieces
        - 7434 Gas fireplace heating. Gas logs
          - Gas stove heating see TH7453+
    - Electric radiant heating. Radiant heaters
      - 7434.5 General works
      - 7434.7 Panel type installations
    - Convective heating. Stoves
      - Cf. TS425 Manufacture of stoves
      - Cf. TX657.S3+ Kitchen stoves
      - 7435 General works
      - 7436.A-Z Special types, other than by fuel, A-Z
      - 7436.B3 Base-heating stoves

- Heating and ventilation
  - Heating of buildings
    - Local heating
      - Convective heating. Stoves
        - Special types, other than by fuel, A-Z -- Continued
          - 7436.D6 Double jacket stoves
            - With air chamber for air heating
          - 7436.E4 Earthenware stoves
          - 7436.M37 Masonry stoves
          - 7436.5 Biomass stove heating
        - Wood stove heating
          - 7437 General works
          - Wood stoves
            - 7438 General works
            - 7439 Catalogs
            - 7440.A-Z Special wood stoves. By name of manufacture, etc., A-Z
            - 7441 Details and fixtures, A-Z
        - Coal and coke stove heating
          - 7443 General works
          - 7444 Catalogs
          - 7445.A-Z Special stoves. By name of manufacture, A-Z
          - 7446.A-Z Details and fixtures, A-Z
        - Oil and gas stove and radiator heating
          - 7447 General works
          - Oil stove and radiator heating
            - 7448 General works
            - Oil stoves and radiators
              - 7449 General works
              - 7450 Catalogs
              - 7450.5 Kerosene heaters
              - 7451.A-Z Special oil stoves. By name of manufacturer, A-Z
              - 7452.A-Z Details and fixtures, A-Z
          - Gas stove heating
            - Cf. TH7434 Gas grate heating
            - Cf. TH7447+ Oil and gas stove heating
        - 7453 General works
        - Gas stoves
          - 7454 General works
          - 7455 Catalogs
          - 7456.A-Z Special gas stoves. By name of manufacturer
          - 7457.A-Z Details and fixtures, A-Z
          - 7457.B8 Burners
          - 7457.D7 Draft hoods
          - 7458.A-Z Stove heating with other fuels. By fuel, A-Z
          - 7458.G7 Grass heating and stoves
      - Local heating of special classes of buildings see TH7392.A+
    - Central heating
      - Cf. TH7511+ Hot water heating
      - Cf. TH7561+ Steam heating
      - Cf. TH7601+ Hot air heating
      - Cf. TH7641+ Heating from central stations
- 7461 General works
- 7463 General special
  - Including gas heating
- 7465 Theory
- 7466.A-Z Special fuels, A-Z

- Heating and ventilation
  - Heating of buildings
    - Central heating
      - Special fuels, A-Z -- Continued
        - 7466.G3 Gas
        - 7466.O6 Oil
        - 7466.W66 Wood
        - 7466.5 Regulators. Thermostats
          - Cf. TH7687+ Air conditioning
      - Hydronic systems
        - Class here works discussing both hot water and steam heating combined
        - Cf. TH6703+ Pipefitting
    - 7467 General works
      - Details for hydronic systems
        - General works
        - Special. By name of manufacturer, etc., A-Z
          - Including histories of manufacturing firms
        - Furnaces and boilers for heating
          - Cf. TH7538+ Hot water furnaces and boilers
          - Cf. TH7588+ Steam furnaces and boilers
          - Cf. TJ263.5 Boilers (General)
        - 7470 General works
        - 7471 Testing
        - 7473 Stationary or bricked-in
        - 7475 Movable or independent
        - 7476.A-Z Special furnaces and boilers. By name of manufacturer, etc., A-Z
        - 7477 Door and damper regulators
        - 7478 Piping, valves and other fittings
          - Cf. TH6703+ Pipefitting
        - 7479 Air vents, etc.
        - Radiators
          - Cf. TH7547 Radiators for hot water heating
          - Cf. TH7597 Radiators for steam heating
        - 7480 General works
          - Direct radiators and coils
        - 7481 General works
          - Coils
            - 7482 General works
            - 7483 Flat coils
            - 7484 Wall coils
          - Radiators
            - 7486 General works
            - 7487 Sectional (cast iron)
            - 7488 Tubular, etc.
        - 7490 Direct-indirect radiators. Ventilating radiators
          - Indirect radiators
            - 7492 General works
            - 7493 Box coil radiators
            - 7495.A-Z Special radiators. By name of manufacturer, etc., A-Z
      - Hot water heating and fixtures
        - Cf. TH6703+ Pipefitting
    - 7511 General works
    - 7512 Pocketbooks, tables, etc.
    - 7513 Specifications, drawings, etc.
    - 7515 Theory
      - Low-pressure hot water heating (with dome boilers)





- Heating and ventilation
  - Heating of buildings
    - Central heating
      - Warm-air heating and fixtures
        - Special warm air heating -- Continued
        - 7635 Combination systems
          - Including warm air and steam systems
        - 7638 Heat pump systems
          - For ground source heat pump systems see TH7417.5
          - Cf. TH7687+ Air conditioning
          - Cf. TJ262 Theory
        - Heating for a community from a single plant
          - For geothermal district heating see TH7416.5
      - 7641 General works
      - 7643 Heating pipes and mains
    - Ventilation of buildings
      - Periodicals, societies, congresses, etc. see TH7005
      - History
        - 7647 General works
        - Special regions or countries
          - United States
            - 7648 General works
            - 7649.A-.W States, A-W
            - 7650.A-Z Cities, A-Z
            - 7651.A-Z Other regions or countries, A-Z
      - General works
        - 7652 Early to 1800
        - 7653 1800-
        - 7654 Textbooks
        - 7655 Popular works. Juvenile works
        - 7656 Pocketbooks, tables, and rules
        - 7657 General special
          - Including use of ozone
        - 7658 Addresses, essays, lectures
      - Natural ventilation
        - Class here natural draft, without fans, etc.
        - 7674 General works
        - 7675.A-Z Special systems. By name of manufacturer, A-Z
      - Artificial ventilation
        - Including ventilators
          - 7678 General works
          - 7681 General special
          - 7682.A-Z Special systems, A-Z
            - 7682.D45 Demand controlled ventilation systems
            - 7682.D57 Displacement ventilation
            - 7682.E44 Emergency ventilation
          - 7683.A-Z Details, fixtures, etc., A-Z
            - 7683.A25 Air curtains
            - 7683.A3 Air filters. Air washers
            - 7683.D8 Air ducts
            - 7683.F3 Fans
            - 7683.H42 Heat exchangers
            - 7683.L7 Louvers
            - 7683.P8 Punkas
            - 7683.R4 Registers and flues
              - Cf. TH7626 Heating

- Heating and ventilation
- Ventilation of buildings
  - Details, fixtures, etc., A-Z -- Continued
  - 7683.V4 Ventilators and chimney tops
  - Special ventilation
  - 7684.A-Z Special buildings and facilities, A-Z
  - 7684.A6 Apartment houses
  - 7684.B35 Basements
  - 7684.C44 Chemical plants
  - 7684.C6 Churches
  - 7684.D9 Dwellings
  - 7684.F2 Factories
  - 7684.F3 Farm buildings
  - 7684.F45 Flour mills
  - Hospitals see RA969
  - 7684.K5 Kitchens
  - 7684.M2 Machine shops
  - 7684.N83 Nuclear facilities
  - 7684.P7 Power plants
  - 7684.P75 Printing plants
  - 7684.P8 Public buildings
  - 7684.R3 Railroad repair shops
  - Schoolhouses see LB3244
  - 7684.S55 Slaughterhouses
  - 7684.T25 Textile factories
  - 7684.T3 Theaters
  - 7685.A-Z Special ventilating installations, A-Z
    - e.g.
    - 7685.G8 Great Britain. House of Commons
  - Air conditioning, cooling, etc.
  - 7687.A1 Periodicals, societies, etc.
  - 7687.A2-Z General works
  - 7687.5 General special
    - Including noise
  - 7687.7 Systems and details
  - 7687.75 Air conditioning from central stations
  - 7687.78 Chilled beams
  - 7687.8 Humidity control
  - 7687.85 Gas air conditioning
  - 7687.9 Solar air conditioning
  - 7687.95 Variable air volume systems
  - 7688.A-Z Special classes of building, A-Z
  - 7688.B3 Bakeries
  - 7688.C64 Commercial buildings
  - Factories
    - 7688.F2 General
    - 7688.F24 Food
    - 7688.F27 Paper
    - 7688.F3 Textile
  - 7688.H6 Homes. Dwellings
  - 7688.L3 Laboratories
  - 7688.O4 Office buildings
  - 7688.O44 Offshore structures. Artificial islands
  - 7688.P3 Packinghouses
  - 7688.P7 Printing plants
  - 7688.P78 Public buildings

- Heating and ventilation
  - Ventilation of buildings
    - Air conditioning, cooling, etc.
      - Special classes of building, A-Z -- Continued
- 7688.P8 Public shelters
- 7688.W3 School buildings see LB3244
- Warehouses
- Dust removal (by pneumatic suction, etc.)
  - General works
  - Clean rooms
  - Special systems. By name, A-Z
    - 7692 Electrostatic precipitation
    - 7694 Inertial separation
    - 7695.A-Z Sonic coagulation
    - 7695.E4 Vacuum system
    - 7695.I52 Venturi scrubber
    - 7695.S6
    - 7695.V2
    - 7695.V45
  - 7696 Details. Fixtures
  - In special buildings and operations. By type, A-Z
    - 7697.A-Z Asbestos industry
    - 7697.A8 Brickworks
    - 7697.B75 Building materials industry
    - 7697.B8 Bulk solids handling
    - 7697.B82 Cement industries
    - 7697.C4 Chemical plants
    - 7697.C54 Coal preparation plants
    - 7697.C58 Compressor stations
    - 7697.C6 Crushed stone industry
    - 7697.C7 Electric power plants
    - 7697.E45 Factories and workshops
    - 7697.F2 Food processing plants
    - 7697.F55 Foundries
    - 7697.F6 Grain elevators
    - 7697.G67 Granite plants
    - 7697.G7 Iron industry
    - 7697.I76 Metallurgical plants
    - 7697.M4 Mine dust control see TN312
    - 7697.M56 Mineral industries
    - 7697.O7 Ore-dressing plants
    - 7697.P5 Plastics plants
    - 7697.Q37 Quarries
    - 7697.R4 Refractories industry
    - 7697.R6 Rolling mills
    - 7697.S3 Sand and gravel industry
    - 7697.T4 Textile factories
    - 7697.T5 Tin industry
    - 7697.W4 Welding shops
    - 7697.W6 Woodworking industries
  - 7698.A-Z Special installations. By name, A-Z
    - e.g.
    - 7698.S7 Spokane Post Office
- 7699.A-Z Other hygienic aspects, A-Z
  - 7699.D4 Deodorization
- Illumination. Lighting
  - Cf. NK2115.5.L5 Lighting as an element in interior decoration
  - Cf. TH7910+ Gas lighting
  - Cf. TK4125+ Electric lighting



- Illumination. Lighting -- Continued  
 7700 Periodicals. Societies. Collections  
 7703 General works  
 7710 Pocketbooks, tables, etc.  
 7715 Standards. Specifications  
 7720 Safety measures  
 7723 Shadows  
 7725 General special  
     Natural lighting  
         7791 General works  
         7792 Easement of light. Light rights. Ancient light  
         7795 Luxfer prisms  
         7799 Sidewalk lights  
     Artificial lighting  
         7900 General works  
         Gas lighting  
             7910 General works  
             7915 Popular works. Consumers' guides, etc.  
         Incandescent gas lighting  
             7953 General works  
             7955.A-Z Special systems, A-Z  
             7955.W3 Washington system  
             7955.W4 Welsbach system  
         Lighting fixtures  
             Cf. TK4198 Electric lighting fixtures  
             Gas and electric  
                 7960 General works  
                 7963 Specifications  
                 Catalogs  
                     7965 To 1880  
                     7967 1880-  
                 7970.A-Z Other special, A-Z  
                 7970.L35 Lampposts  
                 7970.R4 Reflectors  
                 7975.A-Z Special types of buildings, A-Z  
                     7975.C65 Commercial buildings  
                     7975.D8 Dwellings  
                     7975.F2 Factories and workshops  
                     Hospitals see RA969.5  
                     7975.P82 Public buildings  
                         Cf. TK4399.P8 Electric lighting  
                         Workshops see TH7975.F2  
     Acoustics in buildings see TH1725  
     Decoration and decorative furnishings  
         Class here technical works for the artisan  
         For artistic interior decoration see NK1700+  
 8001 Periodicals  
     General works  
         8024 Early to 1800  
         8025 1800-  
         8026 Textbooks  
         8031 Pocketbooks, tables, receipts, etc.  
     Plastering, calcimining, etc.  
         8120 Periodicals, societies, etc.  
         8131 General works



- Decoration and decorative furnishings
- Tilelaying and tile -- Continued
  - Tile. Decorative and ceramic tile
    - Class here works on tile of all materials, including plastic tile, when used for wall and ceiling decoration. Class here only works on ceramic tile when used for flooring
    - For other flooring materials, see TH2529
    - Cf. NA3705 Architectural decoration
    - Cf. NK4670+ Ceramics
    - Cf. TP837 Manufacture of tile
- 8541 General works
- 8542.A-Z Special. By name of manufacturer, etc., A-Z
- Decorative woodwork
  - Including fretwork, grilles, etc.
  - Cf. NK9600+ Artistic woodwork
  - Cf. TH1151+ Architectural woodwork
  - Cf. TH2553 Interior moldings
- 8581 General works
- (8601) Parquet floors see TH2529.W6
- Draping and drapery
  - see TT390
  - Carpets, rugs, etc. see TS1772+
- 9025 Protection of buildings
  - General works
  - Against damage from natural causes
- 9030 General works
- 9031 From dampness. Waterproofing
  - Cf. TH2493 Guttering
- 9034 Microbes
- 9035 Molds
- 9039 Weathering
- 9041 Pest control in buildings. Fumigation
  - Cf. TA423.6+ Wood preservation
  - Cf. TX325 Household pests
- Protection of buildings from lightning
  - Cf. TH1061+ Fireproof building construction
- General works
- 9057 Treatises
- 9058 Elementary textbooks
- 9061 Miscellaneous minor works, addresses, essays, etc.
- Systems of protection from lightning
- 9092.A-Z Special systems. By name of manufacturer, A-Z
  - Including catalogs
  - Earthquakes and building see TH1095
  - Bombproof construction see TH1097
  - Stormproof construction see TH1096
- Protection from fire. Fire prevention and extinction
  - Cf. TH1061+ Fireproof building construction
  - Cf. TH9057+ Protection against lightning
- 9111 Periodicals, societies, etc.
  - For local societies see TH9500+
- 9112 Congresses, conventions, etc.
  - For annual conventions of societies see TH9111
- Exhibitions. Museums
- 9114.A1 General works
- 9114.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b

- Protection from fire. Fire prevention and extinction -- Continued
- 9115 Collected works (nonserial)
- 9116 Dictionaries and encyclopedias
- 9116.5 Directories
- History
- 9117 General works  
Special countries see TH9500+
- Biography
- 9118.A1 Collective
- 9118.A2-Z Individual, A-Z
- 9119 Fire prevention as a profession  
Study and teaching  
Cf. TH9225+ Engineering
- 9120 General works  
United States
- 9123 General works
- 9124.A-.W States, A-W
- 9125.A-Z Cities, A-Z
- 9127.A-Z Other countries, A-Z
- 9128 Physical training for fire fighters
- 9130 Research  
General works
- 9145 Treatises
- 9146 Elements
- 9148 Popular works. Juvenile works
- 9149 Miscellanea
- 9150 Pocketbooks, tables, etc.  
Cf. HG9715 Manuals for insurance inspectors
- 9151 Firemen's manuals
- 9155 Addresses, essays, lectures
- 9157 Examinations, questions, etc.
- 9158 Fire department management  
For special countries, see TH9503+
- (9160) Legislation  
see class K
- 9176 Inspection. Fire inspectors' handbooks  
Including National Board of Fire Underwriters' rules and requirements  
Cf. HG9711+ Fire insurance surveys
- 9180 Investigation of fires  
Cf. SD421.45.I58 Forest fire investigation
- 9182 Safety measures  
Theory of fire protection, etc.
- (9190) General works  
see TH9145
- 9195 Enclosure fires
- 9197 Smoking and fires
- 9198 Spontaneous combustion (in relation to fire)
- 9198.5 Static electricity and fires  
Cf. TH9445.E43 Fire prevention and extinction in electrical equipment
- Fire insurance engineering  
Cf. TH1061+ Fireproof construction, including tests
- 9201 Periodicals, societies, etc.
- 9210 General works
- 9215 Pocketbooks, tables, etc.
- 9220 Addresses, essays, lectures  
Study and teaching

- Protection from fire. Fire prevention and extinction
  - Fire insurance engineering
    - Study and teaching -- Continued
      - 9225 General works
      - Special schools
        - 9230 United States
        - 9235.A-Z Other regions or countries, A-Z
      - 9237 Laboratories
    - Fire prevention
      - Cf. TH1061+ Fireproof building construction
      - 9241 General works
      - 9245 Appliances, etc.
        - Fire doors see TH2278+
      - Fire detection and alarms
        - 9271 Fire detectors. Combustible gas detectors
        - 9275 Electric thermostat fire detectors
      - 9280 Communication systems
      - Fire extinction
        - Cf. TH9151 Firemen's manuals
        - (9310) Theory
          - 9310.5 General works
          - 9310.8 Command and control
        - Water supply
          - 9311 General works
            - Local see TH9503+
        - 9323 Fire streams, nozzle forms, etc.
          - Cf. TC173 Hydraulic engineering
        - Special methods of fire extinction
          - Including special apparatus
          - Water tower systems
            - 9332 General works
            - 9333 For communities
            - 9334 For individual buildings
          - 9336 Automatic systems. Automatic sprinkler systems
          - 9338 Chemical systems
            - Cf. TH1073+ Fireproof construction (Impregnation)
            - Cf. TH9362 Fire extinguishers
            - Cf. TP265+ Chemistry of fire and fire prevention
        - 9339 Explosion systems, etc.
      - General equipment and apparatus
        - Class special equipment with special systems
    - 9360 General works
    - 9361 General catalogs of fire department supplies
    - 9362 Fire extinguishers
    - 9363 Fire pumps. Hand pumps (Portable)
      - Cf. TJ903 Hand pumps (General)
    - 9365 Fire hydrants
    - Vehicles
      - 9370 General works
      - Fire engines
        - 9371 General works
        - 9372 Juvenile works
        - 9373 Catalogs
        - 9374 Hand fire engines
        - 9375 Chemical fire engines
        - 9376 Steam fire engines

- Protection from fire. Fire prevention and extinction
  - Fire extinction
    - General equipment and apparatus
      - Vehicles
        - Fire engines -- Continued
          - 9377 Gasoline fire engines
          - Fire hose and carts
            - 9378 General works
            - 9379 Hose carts
            - 9380 Hose and nozzles
              - For fire stream tables see TH9323
          - 9383 Hook and ladder trucks
        - 9391 Fireboats
      - Protective clothing. Uniforms
        - 9395 General works
        - 9396 Breathing apparatus
      - Lifesaving at fires. Rescue work
        - Including drills, etc.
        - For fire escapes see TH2274
      - 9402 General works
      - 9410 Evacuation of buildings
        - Systems and apparatus
          - 9412 Scaling ladder systems
          - 9414 Rope systems
          - 9416 Tubular bag systems
          - 9418 Net or sheet systems (jumping systems)
        - (9425) Special classes of buildings
          - see TH9445.A+
      - 9431 Salvage of material during fires
        - Including protection from water
    - 9445.A-Z Fire prevention and extinction in special classes of buildings and facilities, A-Z
      - 9445.A4 Aged, Housing for. Nursing homes
      - 9445.A5 Airports
      - 9445.A62 Apartment houses
      - 9445.A7 Archive buildings
      - 9445.A8 Asylums
      - 9445.A85 Atomic power plants
      - 9445.B6 Bowling alleys
      - 9445.B8 Building sites
      - Cathedrals see TH9445.C5
      - 9445.C47 Chemical plants
      - 9445.C48 Chimneys
      - 9445.C5 Churches, cathedrals, shrines, etc.
      - 9445.C6 Cleaning and dyeing plants
      - 9445.C65 Computers and computer installations
        - Cf. TH9445.E45 Electronic data processing departments
      - 9445.C67 Conveying machinery
      - 9445.C68 Correctional institutions
      - 9445.C7 Cotton gins
      - 9445.D5 Distilleries
      - 9445.D6 Dormitories
      - 9445.D75 Drilling platforms
      - 9445.D9 Dwellings
      - 9445.E4 Electric power plants
      - 9445.E43 Electrical equipment

## Protection from fire. Fire prevention and extinction

## Fire extinction

## Fire prevention and extinction in special classes of buildings and facilities, A-Z --

## Continued

- 9445.E45 Electronic data processing departments  
Cf. TH9445.C65 Computers and computer installations
- 9445.E46 Electronic equipment
- 9445.E48 Elevators
- 9445.F35 Farms
- 9445.F6 Food industry
- 9445.F87 Furnaces
- 9445.G3 Garages
- 9445.G54 Garden apartments see TH9445.A62
- 9445.G7 Glass trade
- 9445.G7 Grain elevators
- (9445.H3) Hangers  
see TH9445.A5
- 9445.H4 Health facilities see TH9445.H7  
Heating equipment  
Heliports see TH9445.A5  
Historic buildings see TH9445.M8
- 9445.H7 Hospitals. Health facilities
- 9445.H75 Hotels
- 9445.L5 Industrial buildings see TH9445.M4+
- 9445.L8 Libraries
- Lumberyards
- Lunchrooms see TH9445.R44
- Mills and factory buildings  
General works
- 9445.M4 Flour mills
- 9445.M45 Textile factories
- 9445.M5 Woodworking industries
- 9445.M6 Mines and mining see TN315
- 9445.M8 Museums, historic buildings, etc.
- 9445.N3 Navy yards and naval stations
- 9445.N83 Nuclear facilities  
Nuclear power plants see TH9445.A85
- 9445.O4 Nursing homes see TH9445.A4
- 9445.O43 Office buildings
- 9445.O55 Offshore structures
- Oil storage tanks
- Older people, Housing for see TH9445.A4
- 9445.P3 Paint shops
- 9445.P38 Petroleum pipelines
- 9445.P4 Petroleum refineries
- 9445.P5 Piers and other waterfront structures
- 9445.P55 Plastics plants
- 9445.P8 Public buildings
- 9445.R44 Restaurants, lunchrooms, etc.
- 9445.S3 School buildings
- 9445.S4 Service industries  
Shopping centers see TH9445.S8  
Shrines see TH9445.C5  
Skyscrapers see TH9445.T18
- 9445.S8 Stores, shopping centers, etc.  
Cf. TH9445.U5 Underground shopping centers

## Protection from fire. Fire prevention and extinction

## Fire extinction

## Fire prevention and extinction in special classes of buildings and facilities, A-Z --

## Continued

- 9445.T18 Tall buildings. Skyscrapers
- 9445.T2 Tanneries
- Temples see TH9445.C5
- Theaters
  - 9445.T3 General works
  - 9445.T4 Motion picture theaters
  - 9445.T5 Motion picture films in storehouses, etc.
  - 9445.T7 Transportation industries
  - 9445.T8 Tunnels
  - 9445.U5 Underground shopping centers
  - 9445.W2 Warehouses
  - Waterfronts see TH9445.P5
- 9446.A-Z Fire prevention and extinction in special materials, A-Z
  - 9446.A37 Aerosols
  - 9446.C5 Chemicals
  - 9446.C6 Chlorine dioxide
  - 9446.C65 Cleaning compounds
  - 9446.C7 Cotton and cotton fabrics
  - 9446.D86 Dust
  - 9446.G3 Gasoline
  - 9446.H38 Hazardous substances
  - 9446.H9 Hydraulic fluids
  - 9446.H96 Hydrogen
  - Inflammable materials
    - 9446.I47 General works
    - 9446.I475 Inflammable gases
    - 9446.I5 Inflammable liquids
    - 9446.I55 Insecticides
    - 9446.L57 Liquefied natural gas
    - 9446.M3 Magnesium
    - 9446.O95 Oxygen
    - 9446.P38 Peat
    - 9446.P4 Petroleum
    - 9446.P55 Plastics
    - 9446.P65 Polymers
    - 9446.R3 Radioactive substances
    - 9446.R8 Rubber
    - 9446.S3 Salts
  - Fire testing of materials. Flammability of materials
    - 9446.3 General works
    - 9446.5.A-Z Special materials, A-Z
      - 9446.5.B44 Belts and belting
      - 9446.5.C35 Carpets
      - 9446.5.E43 Electric insulators and insulation
      - 9446.5.F87 Furniture
      - 9446.5.G55 Glass
      - 9446.5.P45 Plastics
      - 9446.5.P65 Polymers
      - 9446.5.U63 Upholstery
      - 9446.5.W66 Wood products
- 9447 Private fire departments for individual establishments
- Fires



- Protection from fire. Fire prevention and extinction
  - Fire extinction
    - Fires -- Continued
      - 9448 General works
        - Including descriptions of the great conflagrations
      - 9449.A-Z Special fires. By city, A-Z
        - Class here only technical reports
        - For popular descriptions, see local history in classes D-F
      - Fires in mines see TN315
      - Forest fires see SD420.5+
      - Grassland fires see SD421.5
      - Ground cover fires see SD421.47+
      - Wildfires see SD420.5+
  - Protection from fire in special countries and cities
    - Including city fire departments and fire fighters's associations.
    - 9500 General collections
    - 9501 America
      - 9502 North America (United States and Canada)
        - General works
        - United States
          - 9503 General works
          - 9504.A-W Special states, A-W
            - Subarrange each state by Table T3a
            - Including works on separate counties
            - Cutter numbers listed below are provided as examples
          - 9504.D6-.D69 District of Columbia (Table T3a)
          - 9504.N7-.N79 New York (State) (Table T3a modified)
          - 9504.N71 State fire marshal's report
          - 9505.A-Z Special cities, A-Z
            - Subarrange each city by Table T3b
            - e.g.
            - 9505.N5-.N509 New York (N.Y.) (Table T3b)
            - Washington (D.C.) see TH9504.D6+
        - Canada
          - 9506.A1-.A6 General works
          - 9506.A8-Z Provinces, A-Z
          - 9507.A-Z Special cities, A-Z
        - Other countries
          - Mexico
            - 9507.5 General works
            - 9508.A-Z Local, A-Z
          - Central America
            - 9510.A1-.A6 General works
            - 9510.A8-Z By region or country, A-Z
            - 9511.A-Z Special cities, A-Z
          - West Indies
            - 9512.A1-.A6 General works
            - 9512.A7-Z Special islands, A-Z
            - 9513.A-Z Special cities, A-Z
          - South America
            - 9514 General works
            - 9516 Argentina
            - 9518 Bolivia
            - 9521 Brazil
            - 9523 Chile
            - 9525 Colombia

Protection from fire. Fire prevention and extinction  
 Protection from fire in special countries and cities

Other countries

South America -- Continued

- 9527 Ecuador  
 Guiana
- 9528 Guyana
- 9529 Suriname
- 9530 French Guiana
- 9531 Paraguay
- 9532 Peru
- 9533 Uruguay
- 9534 Venezuela
- Europe
- 9535 General works  
 Great Britain. England
- 9537 General works
- 9539.A-Z England. Cities, A-Z
- 9541 Ireland
- 9543 Scotland
- 9544 Wales
- Austria
- 9545 General works
- 9546.A-Z Special cities, A-Z
- 9547 Belgium
- 9549 Denmark
- 9551 France
- Germany
- 9553 General works
- 9554.A-Z Special cities, A-Z
- 9555 Greece
- 9557 Holland
- 9559 Italy
- 9561 Norway
- 9563 Portugal
- 9565 Russia. Soviet Union. Russia (Federation)
- 9567 Spain
- 9569 Sweden
- 9571 Switzerland
- 9575.A-Z Other regions or countries, A-Z
- Asia
- 9580 General works
- 9581 China
- 9583 India
- 9585 Japan
- 9587 Iran
- 9589 Asia Minor. Turkey
- 9591 Siberia
- 9593.A-Z Other regions or countries, A-Z
- Africa
- 9594 General works
- 9596 Egypt
- 9597.A-Z Other regions or countries, A-Z
- Australia
- 9598.A1 General works
- 9598.A6-Z Local, A-Z

- Protection from fire. Fire prevention and extinction
  - Protection from fire in special countries and cities
    - Other countries -- Continued
      - New Zealand
        - 9598.5.A1 General works
        - 9598.5.A6-9598.Z Local, A-Z
      - Pacific islands
        - 9599.A1 General works
        - 9599.A6-Z Local, A-Z
- Protection from burglary, sabotage, etc. Security in buildings
  - Cf. HV6646+ Theft
  - Cf. HV8290+ Guards, watchmen, etc.
  - 9701 Periodicals, societies, congresses, etc.
  - 9705 General works
  - Burglar-proof construction
    - 9720 General works
    - 9725.A-Z Details, A-Z
    - 9725.W5 Window guards
  - Protection equipment and devices
    - 9730 General works
    - 9732 Fences
    - 9734 Safes and vaults
    - 9735 Locks. Electronic locking devices
      - Cf. TH2279 Door fittings
      - Cf. TS519+ Locksmithing
    - 9737 Electronic security systems
    - 9739 Detection and alarm equipment. Burglar alarms
    - 9745.A-Z Security of special buildings, A-Z
      - Archives see CD986
      - Art museums see N463
      - 9745.D85 Dwellings
      - 9745.F3 Factories
      - Health facilities see RA969.95
      - Houses see TH9745.D85
      - Libraries see Z679.6
      - Museums see AM148
      - 9745.S59 Skyscrapers
      - 9745.S7 Stores, Retail

- Mechanical engineering and machinery
- Periodicals and societies. By language of publication
- 1 English
- 2 French
- 3 German
- 4 Other languages (not A-Z)
- 5 Congresses
- Exhibitions. Museums
- 6.A1 General works
- 6.A2-Z By region or country, A-Z  
Subarrange each country by Table T4b
- 7 Collected works (nonserial)
- 9 Dictionaries and encyclopedias
- Directories
- For directories of makers and dealers in machinery tools, supplies, etc. see TJ1170
- 11 General and the United States
- 12.A-.W United States. By state, A-W  
Subarrange each state by Table T4a
- 13.A-Z Other countries, A-Z
- 14 Philosophy of machinery
- History
- 15 General works
- 16 Ancient
- 17 Medieval
- 18 Modern
- 19 Nineteenth century
- 20 Twentieth century
- 21-127 Country divisions (Table T1a)  
Add country number in table to TJ0
- 130.A-Z Special companies (History, description, etc), A-Z
- Biography
- 139 Collective
- 140.A-Z Individual, A-Z
- General works on mechanical engineering
- 144 Early to 1800
- 145 1800-
- 146 Elementary textbooks
- 147 Popular works. Juvenile works
- 148 Laboratory practice and student manuals. Testing  
Cf. TA416+ Engineering laboratories
- 151 Pocketbooks, rules, tables, etc.
- 153 General special  
Including data processing, costs, etc.
- 155 Addresses, essays, lectures
- 157 Mechanical engineering as a profession
- Study and teaching
- 158 General works
- 159 Problems, questions, etc.
- Research
- 159.5 General works
- 159.7.A-Z By region or country, A-Z
- Communication in mechanical engineering
- 160 General works
- 160.5 Information centers
- Mechanical and electrical engineering combined
- 163 General works

- Mechanical and electrical engineering combined -- Continued
- 163.12 Mechatronics  
     For microelectromechanical systems see TK7875
- Power resources  
     For special power resources, see the resources e.g. TP315+ Fuel; TK9001+ Atomic power; etc.  
     Cf. TJ260 Heat as a source of power  
     Cf. TJ807+ Renewable energy sources  
     Cf. TN263.5 Energy minerals
- 163.13 Periodicals. Societies. Serials
- 163.15 Congresses  
 Exhibitions. Museums
- 163.155.A1 General works
- 163.155.A2-Z By region or country, A-Z  
     Subarrange each country by Table T4b
- 163.16 Dictionaries and encyclopedias
- 163.165 Directories
- 163.17 Information services
- 163.18 Geographic information systems
- 163.2 General works
- 163.23 Juvenile works
- 163.235 Handbooks, tables, etc.
- 163.24 Addresses, essays, lectures
- 163.245 Energy audits
- 163.25.A-Z Special regions or countries, A-Z
- Energy conservation  
     Cf. HD9502+ Economics of power resources and energy policy  
     Cf. TN860+ Petroleum conservation
- 163.26 Periodicals. Societies. Serials
- 163.27 Congresses
- 163.28 Dictionaries and encyclopedias
- 163.3 General works
- 163.35 Juvenile works
- 163.4.A-Z Special regions or countries, A-Z
- Biography
- 163.45 Collective
- 163.46.A-Z Individual, A-Z
- 163.5.A-Z Energy conservation or consumption in special industries, facilities, etc., A-Z
- 163.5.A37 Agriculture  
     Air transport see TJ163.5.T7  
     Apartment houses see TJ163.5.D86
- 163.5.B84 Buildings
- 163.5.C45 Cement industries
- 163.5.C54 Chemical industry
- 163.5.C57 Churches. Religious institutions  
     Colleges see TJ163.5.U5
- 163.5.C65 Construction industry
- 163.5.D38 Data processing service centers
- 163.5.D86 Dwellings
- 163.5.F3 Factories
- 163.5.F5 Finishing industry
- 163.5.F6 Food industry  
     Foundries see TJ163.5.M48
- 163.5.G55 Glass manufacture  
     Health facilities and hospitals see RA967
- 163.5.H4 Heating plants
- 163.5.H67 Hotels. Motels

- Energy conservation
  - Energy conservation or consumption in special industries, facilities, etc., A-Z -- Continued
  - 163.5.M48 Metallurgical plants
  - 163.5.M54 Military bases
  - 163.5.M56 Mineral industries
  - 163.5.M87 Museums
  - 163.5.O35 Office buildings
  - 163.5.P33 Package goods industry
  - 163.5.P37 Paper and pulp mills
  - 163.5.P47 Petroleum refineries
  - 163.5.P48 Plastics industry
  - 163.5.P68 Power plants
  - Religious institutions see TJ163.5.C57
  - 163.5.R64 Rolling mills
  - 163.5.R82 Rubber industry
  - Schools see TJ163.5.U5
  - 163.5.S67 Sports facilities
  - 163.5.S83 Steelworks
  - 163.5.S85 Stores, Retail
  - 163.5.S93 Sugar industry
  - Supermarkets see TJ163.5.S85
  - Taverns see TJ163.5.H67
  - 163.5.T48 Textile industry
  - 163.5.T7 Transportation
  - 163.5.U5 Universities and colleges. Schools
  - 163.5.W36 Waterworks
  - 163.5.W66 Wood-using industries
- Power (Mechanics)
  - Periodicals. Societies. Serials
  - 163.6 Congresses
  - 163.7 Dictionaries and encyclopedias
  - 163.8 General works
  - 163.9 Juvenile works
  - 163.95
  - 164 Power plants (General)
    - Cf. TJ395+ Steam
    - Cf. TK1191+ Electric
    - Cf. TK4399.P6 Electric lighting
- 165 Energy storage
  - Cf. TJ260 Thermal energy storage
  - Cf. TJ541 Flywheels
  - Cf. TJ981+ Compressed air
  - Cf. TK2980+ Electric energy storage
- 166 Safety measures and devices
  - Cf. TJ1177 Machine shops
- 168 General catalogs of mechanical engineering equipment
  - Mechanics applied to machinery. Dynamics
- 170 General works
- 173 General special
  - Including work diagrams
- 174 Maintenance and repair of machinery
- 175 Principles of mechanism. Kinematics of machinery
- 177 Vibration of machinery
- 177.5 Alignment of machinery
- 179 Noise in machinery
  - Cf. TD893.6.M3 Noise in machine shops
- Mechanical movements

- Mechanical movements -- Continued
- 181 General works  
Special movements and devices
- 181.3 Perpetual motion
- 181.5 The wheel
- 181.6 Intermittent-motion mechanisms
- 181.7 Geneva mechanisms
- 181.8 Straight-line mechanisms
- 181.9 Pantograph  
Belt gearings, belts, pulleys, etc. see TJ1100+  
Links and link motion. Cranks  
    Cf. TJ762.C73 Motors
- 182 General works
- 183 Hooke's and other link couplings
- 183.5 Rolling contact
- 184 Toothed gears. Gearing  
General works
- 185 Tables, lists, etc.
- 186 Laying out gear teeth. Odontographs
- 187 Gear-cutting machines
- 188 Catalogs  
Special gears
- 189 Spur gears
- 190 Racks (Racks and pinions)
- 191 Annular gears
- 192 Stepped, twisted, and helical gears  
Bevel gears
- 193 General works
- 194 Miter wheels
- 196 Screw bevel gears  
Screw gears see TJ192
- 200 Worm gears
- 202 Other forms of gears  
    Including internal gears, reduction gears, asymmetric gears
- 204 Transmission gears  
    Cf. TL260+ Automobiles
- 206 Cams
- 207 Levers
- 208 Vibrators
- 209 Gyroscopes  
    Cf. QA862.G9 Analytic mechanics  
    Cf. TL589.2.C58 Compass (Gyroscope)  
    Cf. TL589.2.O6 Optical gyroscope
- 210 Springs
- Mechanical devices and figures. Automata. Ingenious mechanisms. Robots (General)  
    For industrial robots see TS191.8  
    Cf. ML1050 Automatic musical instruments  
    Cf. S678.65 Robotics in agriculture  
    Cf. TL1097 Space robotics
- 210.2 Periodicals. Societies. Serials
- 210.3 Congresses
- 210.4 Dictionaries and encyclopedias
- 210.5 Directories
- 211 General works
- 211.15 Popular works
- 211.2 Juvenile works

## Mechanical devices and figures. Automata. Ingenious mechanisms. Robots (General) --

Continued

- 211.25 Vocational guidance
- 211.26 Study and teaching
  - Cf. TJ211.49 Human factors
- 211.28 Moral and ethical aspects
- 211.3 Robot vision
- 211.35 Control systems
- 211.36 Microrobots
- 211.37 Evolutionary robotics
- 211.4 Robot motion. Robot dynamics
- 211.412 Robot kinematics
- 211.415 Mobile robots
- 211.4152 Parallel robots
- 211.416 Personal robotics
- 211.417 Error detection and recovery
- 211.419 Calibration
- 211.42 Robot wrists
- 211.43 Robot hands
- 211.45 Programming
- 211.47 Computer simulation
- 211.49 Human factors
  - Cf. TJ211.28 Moral and ethical aspects
- 211.495 Autonomous robots
- 211.5 Specifications and standards
- Control engineering systems. Automatic machinery (General)
  - Cf. HD6331+ Labor displacement
  - Cf. T59.5 Automation
  - Cf. TA165 Industrial instrumentation
  - Cf. TJ1180+ Automatic machine tools
  - Cf. TS156.8 Process control
- 212 Periodicals. Societies. Collected works
- 212.2 Congresses
- 212.5 Dictionaries and encyclopedias
- 213 General works
- 213.5 Popular works. Juvenile works
- 213.7 Addresses, essays, lectures
- 213.75 Study and teaching
- 213.8 Problems, exercises, etc.
- 213.9 Laboratory manuals
- 213.95 Reliability
- Control systems
  - 214 Servomechanisms
  - 214.5 Motion control devices
  - 215.5 Multiagent systems
    - Class here general works on multiagent systems, for systems applied to a specific field, see the field, e.g. TJ211.415 Mobile robots
- 216 Feedback control systems
- 216.5 Feedforward control systems
- 217 Adaptive control systems
- 217.2 Robust control
- 217.5 Intelligent control systems
- 217.6 Predictive control
- 217.7 Real-time control
- 218 Carrier control systems
- 218.5 Relay control systems



- Control engineering systems. Automatic machinery  
 Control systems -- Continued
- 218.7 Binary control systems  
 219 Pneumatic control systems  
 220 Linear control systems  
 220.3 Nonlinear control systems  
 220.5 Sliding mode control  
 221 Passivity-based control  
 222 Supervisory control systems  
     Including SCADA systems
- 223.A-Z Special, A-Z  
 223.A25 Actuators  
 223.C45 Chattering control  
 223.C6 Counters  
     Digital control see TJ223.M53  
 223.E4 Electromagnets  
 223.E65 Equalizers  
 223.L5 Level indicators  
 223.M3 Magnetic devices  
 223.M53 Microprocessors. Microcomputers. Digital control  
     Cf. QA76.6+ Computer programming  
     Cf. TK7895.M5 Computer hardware  
     Optoelectronic devices see TJ223.P5  
 223.P4 Perceptrons  
 223.P5 Photoelectronic devices. Optoelectronic devices  
 223.P55 PID controllers  
 223.P67 Positioners  
     Including micropositioners  
 223.P76 Programmable controllers  
 223.R3 Radioactive measurements  
 223.S45 Semiconductors  
 223.S6 Solions  
 223.T4 Thermometers, etc.  
 223.T5 Timers  
 223.T75 Transducers  
 223.V3 Valves  
 225 Applications (General)  
     For special applications, see field of application, e.g. TJ1225 Milling machines numerically controlled
- Machine design and drawing  
     Including construction if contained in the same works  
     For the design of special machines, see below under each machine  
     For mechanical drawing see T351+
- 227 Drafting room practice  
 230 General works  
 233 General special  
 235 Graphic statics applied to machinery  
 240 Atlases and collections of designs and plans  
 241 Machinery manufacturing (General)  
     For special types of machinery and machine-building processes, see under each machine or process, e.g. TJ1125+ Machine shop practice; TK2331 Electric machinery; TN345 Mining machinery; TS225+ Forging; TS228.99+ Founding; TS1525 Textile machinery  
     Cf. HD9705+ Machinery trade and manufacture
- 243 Machine parts  
 245 Specifications for machinery  
 245.5 Quality control of machinery

- 246 Packing. Gaskets. Sealing  
Cf. TJ529 Steam engine cyclinder packing
- 247 Diaphragms
- 247.5 Bellows
- 248 Mechanical models
- 249 Erecting work. Foundations  
Prime movers in general
- 250 General works
- 253 Testing
- 254 Governors and governing  
Cf. TJ550+ Steam engines  
Cf. TJ1055 Machinery exclusive of prime movers
- Combustion engineering  
Cf. QD516 Thermochemistry  
Cf. TH7140+ Industrial furnace  
Cf. TJ324.7 Furnaces  
Cf. TJ756 Internal combustion engines  
Cf. TJ773 Explosion or ignition devices  
Cf. TJ797 Diesel engines  
Cf. TP315+ Fuel
- 254.5 General works
- 254.52 Air-fuel ratio
- 254.7 Combustion chambers  
Cf. TL709.5.C55 Jet engines
- Heat engines. Heat engineering  
Class here engines using heat as a source of power, including thermal energy systems  
For hot-air engines see TJ765
- 255 General works
- 255.5 Materials  
Including ceramic materials
- 260 Heat in its applications, as a source of power, etc  
Class here heat from the mechanical engineering standpoint
- 262 Heat pumps  
Cf. TH7638 Heating and air conditioning
- Heat exchangers  
For special applications, see under machine or process, e. g. TJ778 Gas turbines; TP363  
Heating, drying, cooling, evaporating, etc.
- 263 General works
- 263.2 Thermosyphons
- 263.3 Kalina cycle systems
- 263.5 Boilers (General)  
Cf. TH7470+ Heating  
Cf. TJ281+ Steam boilers
- 264 Heat pipes
- 264.5 Vortex tubes
- 265 Theory of heat engines. Thermodynamics
- Turbines. Turbomachines (General)  
Cf. TJ735+ Steam turbines  
Cf. TJ778 Gas turbines  
Cf. TJ870+ Hydraulic turbines  
Cf. VM740 Marine turbines
- 266 General works
- 267 Theory of turbines. Fluid, aero- and hydrodynamics of turbomachinery
- 267.5.A-Z Special topics, A-Z
- 267.5.B43 Bearings
- 267.5.B5 Blades

- Turbines. Turbomachines (General)
- Special topics, A-Z -- Continued
- 267.5.C3 Cascades
- Compressors
- 267.5.C5 General works
- 267.5.C6 Supersonic compressors
- 267.5.D4 Diffusers
- 267.5.D5 Disks
- 267.5.I6 Impellers
- 267.5.N5 Noise
- 267.5.N6 Nozzles
  - Including supersonic nozzles, etc.
- Steam engineering
- Steam
  - Including heated fluids
  - 268 Properties, etc.
  - 270 Tables, calculations, etc.
  - 271 Flow in pipes, orifices, etc.
  - 272 Superheated steam. Superheaters, etc.
    - Cf. TJ693 Locomotives
  - 275 Treatises, textbooks, etc.
  - 277 Pocketbooks, tables, etc.
  - 279 General special
    - Including high pressure steam
- Study and teaching
- 280 General works
- 280.5 Examinations, questions, etc.
- 280.7 Geothermal engineering
  - Cf. TH7416+ Geothermal heating
  - Cf. TK1055 Production of electric power from geothermal energy
- 280.75.A-Z Special topics, A-Z
- 280.75.G46 Geothermal wells
  - Including drilling
- Steam boilers
  - Cf. TJ263.5 Boilers (General)
  - 281 Periodicals, societies, etc.
  - 282 Dictionaries and encyclopedias
  - 283 History
  - General works
  - 284 Early works to 1850
  - 285 1850-
  - 286 Elementary textbooks
  - 288 General special
    - Including boiler accessories
  - 289 Handbooks, management and care of boilers
    - Including firemen's manuals, catechisms, etc.
    - Cf. VM749 Manuals for marine boiler attendants
- Construction (Boilermaking)
- 290 General works
- 291 Material of boilers, strength and testing
- 292 Settings
- 293 Supports
- 294 Manholes
- 295 Models
- 296 Catalogs
  - For special types see TJ310+

- Steam boilers -- Continued
- 297 Testing. Heat transmission through boiler tubes
- 298 Safety measures. Inspection  
Steam boiler explosions  
Cf. TH6565+ Kitchen boiler explosions
- 299 General works
- 301 Reports of special boiler explosions
- (302-308) Law and legislation  
see class K
- 310 Types of boilers  
Early types  
Including Cornish, Lancashire, etc.  
Multitubular  
General works
- 311 Vertical
- 312 Locomotive boilers see TJ642  
Water tube boilers  
General works
- 314 Special types, A-Z
- 315.A-Z Combination and other forms, A-Z
- 316.A-Z Electrically heated steam boilers
- 318 Waste heat boilers
- 319 Kitchen boilers see TH6563  
Marine boilers see VK588+
- Boiler details and accessories
- Furnaces
- 320 General works  
Grates
- 322 General works
- 324.A-Z Special types, A-Z
- 324.5 Fuel systems
- 324.7 Combustion
- 325 Gas burning installations
- 326 Oil burning installations
- 328 Air preheating  
Chimneys  
Cf. TH4591 Construction
- 330 General works
- 333 Draft
- 335 Forced draft. Mechanical draft  
Smoke prevention and consumers see TD884
- 340 Fuel economizers
- 345 Mechanical stokers. Automatic stokers
- 347 Grate shakers  
Safety appliances  
Cf. TH6565+ Hot water supply
- 350 General works  
Safety valves
- 352 General works
- 354.A-Z Special types, A-Z
- 356 Fusible plugs
- 357 Pressure regulators
- 358 Blowoffs
- Water gages
- 360 General works
- 363 Gage or try cocks

- Steam boilers
  - Boiler details and accessories
    - Water gages -- Continued
    - 366 Water glasses
    - Steam or pressure gages
      - 370 General works
      - 372.A-Z Steam types, A-Z
    - Feed apparatus
      - 375 General works
      - 377 Water supply for boilers
      - 378 Wells, etc.
      - 379 Feedwater purification. Water softeners, etc.
      - Feedwater heaters
        - 381 General works
        - 383.A-Z Special types, A-Z
      - 385 Feed pumps
      - 387 Injectors
    - Boiler scale
      - Including its prevention and removal
      - 390 General works
      - 392 Boiler compounds. Catalogs, circulars, etc.
      - 393 Steam accumulators
  - Steam powerplants. Boiler plants
    - 395 Plants for power, heating, etc.
    - Plants for power alone
      - 400 General works
      - 403 General special
      - 405 Operation and management
      - 407 Special plants. Description, plans, drawings, testing, etc.
      - Coal and ash handling see TJ1405
    - 411 Directories of manufacturers and dealers in equipment and supplies
    - 412 Equipment and supplies
      - Including catalogs
  - Pipe and fittings
    - Including standardization
    - Cf. TH7478 Steam heating fittings
    - 415 General works
    - (418) Catalogs
      - see TJ412
    - 421 Pipe flanges
      - Including standardization
    - 424 Expansion joints
    - 427 Steam pipe covering
    - Steam valves
      - 430 General works
      - 432 Catalogs
      - 433 Reducing valves
      - 435 Steam packing
      - 438 Steam traps
      - 441 Steam separators
      - 444 Oil separators
        - Cf. TH7578.G7 Steam heating, grease separators
  - Steam engines
    - 461 History
    - 464 Early works to 1850
    - 465 1850-

- Steam engines -- Continued
- 466 Textbooks
- 467 Popular works. Juvenile works
- 469 General special
  - Including curiosa
- 471 Handbooks, etc., for engine tenders
- 472 Addresses, essays, lectures
- 473 Catalogs (General)
  - For special types, see below
- 474 Standards. Specifications
- 475 Tests and efficiencies
- 478 Indicators
- 480 Models
- 483.5.A-Z Other special topics, A-Z
- 483.5.T47 Thermodynamics
- Steam engines. Special types (Reciprocating)
  - For early types see TJ461+
- 485.A-Z Types. By inventor or maker, A-Z
  - e.g.
- 485.C5 Corliss
- Types. By use of steam
  - Simple
  - 490 General works
  - 492 Single acting
  - 494 Double acting
  - 495.A-Z Special makes, A-Z
  - Compound
  - 497 General works
  - 499.A-Z Special makes, A-Z
  - Triple expansion
  - 501 General works
  - 503.A-Z Special makes, A-Z
  - 505 Quadruple expansion
  - 507 Other types (not A-Z)
- Steam engines (Design and construction)
- 515 General works
- 520 Balancing of engines
- Details
  - Including description and parts
- 523 Foundations
- 525 Frame setting
- Cylinder
  - 527 General works
  - 529 Stuffing box. Packing
- 531 Steam jacket
- 533 Piston and piston rod. Piston rings
- 535 Crosshead and connecting rod
- 537 Crank and crankpin
- 539 Shaft and journals
- 541 Flywheel
- 543 Eccentric and eccentric-rod
- 545 Slide valve
- 546 Piston valve
- Valve gears
  - 547 General works
  - 548.A-Z Special types, A-Z

- Steam engines
  - Steam engines (Design and construction)
    - Details -- Continued
      - Governors
        - 550 General works
        - 551.A-Z Special types, A-Z
        - 551.C8 Corliss valve gears
    - Steam engine accessories
      - 555 General works
      - 557 Condensers
      - 559 Jet
      - 561 Surface
      - 563 Cooling towers
      - 565 Wells
      - 567 Exhausts
  - Locomotives
    - Cf. TF1+ Railroads
    - History
      - Cf. TJ625.A+ Special locomotive works
    - 603 General works
      - Special countries
        - United States
          - 603.2 General works
          - 603.3.A-Z Special railroad lines. By line, A-Z
            - e.g.
              - 603.3.S6 Southern Pacific Railroad
          - 603.4.A-Z Other regions or countries, A-Z
            - Under each:*
              - .x *General works*
              - .x2A-.x2Z *By special line, A-Z*
    - Biography of locomotive engineers
      - For biography of inventors, designers, manufacturers, etc., of locomotives see TJ140.A+
      - 603.49 Collective
      - 603.5.A-Z Individual, A-Z
    - General works
      - Including dictionaries
      - 604 Early to 1850
      - 605 1850-
      - 605.5 Juvenile works
      - 606 Manuals, pocketbooks, etc. for the locomotive builder
      - 607 Handbooks, manuals, etc. for locomotive engineers and firemen
      - 608 General special
        - Including boiler accessories
      - Special types
        - 609 General works
        - 611 Simple
        - 613 Compound
        - 615 Other types. By use of steam
        - Electric locomotives see TF975
        - 618 Oil burning steam locomotives
        - Diesel locomotives
          - 619 General works
          - Special regions or countries
            - United States
              - 619.2 General works
              - 619.3.A-Z Special railroad lines. By line, A-Z

- Locomotives
  - Special types
    - Diesel locomotives
      - Special regions or countries -- Continued
      - 619.4.A-Z Other regions or countries, A-Z
        - Under each:*
        - .x *General works*
        - .x2A-.x2Z *By special line, A-Z*
    - 619.5 Engines
    - 619.7 Electric equipment
    - Electro-diesel locomotives see TF980
    - 621 Gasoline locomotives
    - 622 Gas turbine locomotives
    - 623 Nuclear locomotives
    - 625.A-Z Special locomotive works and companies, A-Z
      - Including reports, histories, catalogs and descriptions of their locomotives
      - e.g.
      - 625.B2 Baldwin Locomotive Works
    - 630 Models and miniature engines
    - 635 Design and construction
    - Repairs see TJ675
    - Details (Various motive powers)
      - 640 Frames and running gear
      - 642 Boilers
        - Including regulation and inspection
      - Fireboxes
        - 646 General works
        - 647 Ashpans
      - 648 Fuel for locomotives. Coal, oil, etc.
        - Cf. TJ690 Locomotive performance
    - 649 Mechanical stokers
    - 650 Draft appliances. Exhausts
    - 653 Smoke prevention
    - 656 Sparks and spark arresters
    - 659 Cylinders, pistons, etc.
    - 662 Connecting rods, etc.
    - 665 Valves and valve gears
    - Other special
      - 668 Headlights
      - 669.A-Z Other, A-Z
        - 669.B4 Bearings
        - 669.B6 Boosters
        - 669.B7 Brakes
        - 669.C6 Compressors
        - 669.C7 Cranks and crankshafts
        - 669.E4 Electric equipment
        - 669.S6 Speedometers
        - 669.S7 Storage batteries
        - 669.W54 Wheels
    - 671 Locomotive tenders
    - 675 Locomotive maintenance and repair. Lubrication
    - Locomotive works and shops
      - 680 General works
      - 683 Shop practice
    - Supervision and inspection of locomotives
      - Cf. TJ642 Boiler inspection



## Locomotives

Supervision and inspection of locomotives -- Continued

## Documents

685.A1-.A5

United States

685.A6A-.A6Z

Other countries, A-Z

685.A7-Z

General works

690

Testing. Locomotive performance

Cf. TF550+ Movement of trains

693

Superheated steam for locomotives

695

Locomotives for industrial purposes, logging, mining, etc.

Cf. TN337 Electric mine locomotives

## Other steam engines

Marine engines see VM731+

700

Traction engines, etc.

705

Steam wagons, trucks, etc.

Cf. TL200+ Steam automobiles

Road rollers see TE223+

710

Portable engines

712

Farm engines

717

Reciprocating engines of unusual form

Steam engines of other forms not reciprocating

720

General works

725

Eolipiles

727

Aerosteam engines

729

Rotary engines

731

Cycloidal engines

Steam turbines

Cf. VM740 Marine turbines

735

General works

737

General special

740

Special types, makes, etc. (not A-Z)

## Miscellaneous motors and engines

Including internal combustion engines; air, gas, and oil engines, etc.

751

Periodicals, societies, etc.

752

Dictionaries and encyclopedias

753

History

755

General works

755.5

Juvenile works

756

Combustion. Thermodynamics

Cf. TJ797 Diesel engines

758

Patents

759

General special

762.A-Z

Parts and systems, A-Z

762.B4

Bearings

762.C73

Crankshafts and cranks

Cf. TJ669.C7 Locomotives

Cf. TL210+ Motor vehicles

762.C94

Cylinder blocks

762.E93

Exhaust systems

Including exhaust manifolds

762.F84

Fuel systems

762.S95

Superchargers

763

Adiabatic engines

764

Barrel engines

765

Hot-air engines. Caloric engines

Compressed air engines

- Miscellaneous motors and engines
- Compressed air engines -- Continued
- 766 General works
- 766.5 Air turbines
- 766.7 Air-cooled engines
- 768 Gas powerplants
- Gas engines
- 770 General works
- 773 Explosion or ignition devices
- 774 Other details. Cylinders, pistons, etc.
- 775 Regulation devices
- 776 Special types
  - Including catalogs
- 777.A-Z Special applications, A-Z
- 777.F3 Farm engines
- 778 Gas turbines
  - Cf. TJ812.6 Solar gas turbines
  - Cf. VM740 Marine turbines
- 779 Free piston engines
- 779.15 Homogeneous charge compression ignition engines
- 779.2 Opposed piston engines
- 780 Engines for utilization of furnace and waste gases and heat
- Internal combustion engines, Spark ignition
  - Cf. TJ621 Gasoline locomotives
  - Cf. TL210+ Automobile motors
  - Cf. TL701+ Airplane motors
  - Cf. VM771+ Marine engines
- 782 Periodicals, societies, congresses, etc.
- 785 General works
- Carburetion, ignition, etc. Spark plugs. Magnetos
  - Cf. TL213 Automobiles
- 787 General works
- 787.3.A-Z Special topics, A-Z
- 787.3.C65 Cold start
- 787.3.M57 Misfire
- 788 Cylinders, pistons, and other parts
- 789 General special
  - Including lubrication, cooling, etc.
  - For automobile or airplane lubricants prefer TL153.5 and TL702.L8
- Special types
- 790 Small gasoline engines
  - Including two-stroke and four-stroke engines
- 791 Stratified charge engines
- 792 Rotary combustion engines
  - Including Wankel engine, Frasca engine
- Special applications
- 793 Agricultural machinery
- 793.2 Construction equipment
- 793.3 Hoisting machinery
- Diesel engines
  - Cf. TJ619.5 Diesel engines for locomotives
  - Cf. TK1075 Diesel engine electric plants
  - Cf. TL704.2 Diesel engines for aircraft
  - Cf. VM770 Marine diesel engines
- 795.A1 Periodicals, societies, etc.
- 795.A2-Z General works

- Miscellaneous motors and engines
  - Diesel engines -- Continued
    - 795.5 Special types, makes, etc. (not A-Z)
    - 797 Fuel systems. Fuel injection systems. Combustion
      - Cf. TP343+ Diesel fuels
    - 798 Lubrication
    - 798.5 Cylinders, pistons and other parts
    - 799 General special
      - Including cooling, governors, exhaust systems, etc.
  - 800 Alcohol motors
  - 805 Engines or motors using other combustible liquids and vapors
- Renewable energy sources
  - Cf. GB1199.5+ Geothermal resources
  - Cf. TC147 Water power
  - Cf. TP360 Biomass energy
- 807 Periodicals. Societies. Serials
- 807.2 Congresses
- 807.4 Dictionaries and encyclopedias
- 807.6 Directories
- 807.8 Information services
- 807.9.A-Z By region or country, A-Z
- 808 General works
  - 808.2 Juvenile works
  - 808.3 Handbooks, tables, etc.
  - 808.5 Addresses, essays, lectures
- Research
  - 808.6 General works
  - 808.7.A-Z By region or country, A-Z
- Solar energy
  - Class here general works on solar energy. For applications in special fields, see the field, e.g.
    - TH7413 Solar heating of buildings
  - Cf. HD9681 Solar energy industry
  - Cf. NA2542.S6 Architecture and solar radiation
  - Cf. QC910.2+ Solar radiation
  - Cf. TH6561.7 Solar water heating
  - Cf. TH7414 Solar houses
  - Cf. TK1056 Production of electric power from solar energy
- 809 Periodicals. Societies. Serials
- 809.2 Congresses
- Exhibitions. Museums
  - 809.4 General works
  - 809.5.A-Z By region or country, A-Z
    - Subarrange each country by Table T4b
- 809.6 Dictionaries and encyclopedias
- 809.8 Directories
- 809.9 Information services
  - By region or country
    - United States
      - 809.95 General works
      - 809.96.A-Z By region or state, A-Z
      - 809.97.A-Z Other regions or countries, A-Z
- 810 General works
  - 810.3 Juvenile works
  - 810.5 Handbooks, tables, etc.
  - 810.7 Addresses, essays, lectures
  - 810.9 Study and teaching

- Renewable energy sources
  - Solar energy -- Continued
    - Research
      - 811 General works
      - 811.5.A-Z By region or country, A-Z
      - 811.8 Special topics
        - Photosynthesis
        - Solar batteries. Solar cells see TK2960+
      - 812 Solar collectors
      - 812.5 Solar engines
      - 812.6 Solar gas turbines
      - 812.7 Solar materials
      - 812.8 Solar ponds
    - Wind power
      - 820 General works
      - Windmills
        - 823 History
        - 824 Early works to 1800
        - 825 1800-
        - 827 Trade catalogs
        - 828 Wind turbines
        - Wind pumps see TJ926
    - 830 Animal motors. Treadmills
  - Hydraulic machinery
    - Cf. TC1+ Hydraulic engineering
    - 836 Periodicals. Societies. Serials
    - 838 Congresses
    - 839 Dictionaries and encyclopedias
    - General works
      - 840.A2 Early to 1800
      - 840.A3-Z 1800-
      - 843 Oil hydraulics and oil hydraulic machinery
      - 844 Hydraulic fluids
      - Hydraulic powerplants
        - Cf. TK1081+ Hydroelectric plants
        - Cf. TK1421+ Hydroelectric plants, by place
    - (845) General works
      - see TC147
    - 847 Sluices, gates, etc.
    - 849 Penstocks and pipelines
    - 851 Wasteways, etc.
  - Fluidics and fluidic devices
    - 853 General works
    - 853.4.A-Z Special topics, A-Z
    - 853.4.M53 Microfluidics and microfluidic devices
      - Including nanofluids
    - 853.4.O68 Optofluidics
  - Hydraulic motors
    - 855 General works
    - 857 General special
      - Including regulators, etc.
  - 859 Water mills
  - Water wheels
    - 860 General works
    - 862 Overshot
    - 864 Undershot

- Hydraulic machinery
  - Water wheels -- Continued
    - 866 Tangential (Pelton, etc.)
    - Turbines
      - Cf. TJ735+ Steam turbines
      - 870 General works
      - 873 General special
      - 875 Special types
      - 880 Hydraulic brakes
      - 890 Water-pressure engines
  - Conveying of gases, liquids and solids by means of steam, air, or water
    - 898 General works
    - 898.5 Coal slurry pipelines
      - Cf. TJ1405 Coal-handling machinery
  - Pumps and pumping engines
    - Cf. TC929 Irrigation pumps
    - 899 Periodicals, societies, etc.
    - 899.5 Congresses
    - 899.7 Dictionaries and encyclopedias
    - 900 General works
    - 901 General special
      - Including ancient and primitive pumps
    - 902 Catalogs
      - Cf. TH6529 Water-supply fittings
    - 902.5 Standards. Specifications
    - 903 Hand pumps
      - Cf. TH9363 Fire pumps
    - 905 Hydraulic rams
    - Steam pumps
      - 906 General works
      - 908 Catalogs, etc.
    - 910 Electric pumping machinery
    - 911 Jet pumps
    - 912 Solar pumps
    - 915 Piston pumps. Reciprocating pumps
    - 916 Metering pumps
    - 917 Rotary pumps
    - 919 Centrifugal pumps (Kreiselpumpen)
    - 921 Pulsometers, steam syphons, etc.
    - 925 Pumping by compressed air. Airlift pumps
    - 926 Wind pumps
    - 927 Submersible pumps
    - Fire engines see TH9371+
  - Pipelines (General)
    - Cf. TA660.P55 Structural engineering
    - Cf. TC1800 Ocean engineering
    - Cf. TJ898.5 Coal slurry pipelines
    - Cf. TN879.5+ Petroleum pipelines
    - Cf. TN880.5 Natural gas pipelines
  - 930 General works
  - 930.5 Supports
  - 933 Equipment and supplies
    - Including catalogs
  - 934 Double wall piping
  - 935 Flow of fluids in pipes. Flowmeters
    - Cf. TC174 Flow of water in pipes

- Vacuum technology
- 940        General works
- 940.5      Vacuum pumps
- Pneumatic machinery
- 950        General works
- Airbrakes see TF420+
- 955        Air pumps
- Blowers and fans. Exhausters
  - Cf. TH7683.A+ Ventilation fixtures
- 960        General works
- 963        Piston blowers. Blast engines
- 966        Rotary blowers
- 969        Centrifugal blowers
- Compressed air
- 981        Periodicals, societies, etc.
- 985        General works
- Air compressors
- 990        General works
- 992        Catalogs and trade publications
- 1000       Distribution and transmission
- Pneumatic tools
- 1005       General works
- 1007       Catalogs
- 1009       Sandblast
  - Cf. TP864 Glasswork
- 1015       Pneumatic tubes and carriers
- Flow of gases in pipes. Air meters
- 1025       General works
- 1030       Air jets
- Machinery exclusive of prime movers
  - Including millwork, e.g., the shafting, gearing and other driving machinery of mills and factories
  - For mills of specific places see TS21+
  - Cf. TS191.3 Installation and maintenance of factory machinery
- 1040       General works
- Power and power transmission
- 1045       General works
- 1049       General special
- 1051       Power transmission machinery
  - Including catalogs
- 1053       Measurement of power. Dynamometers
- 1053.5     Torquemeters
- 1054       Speed and revolution indicators
- 1055       Regulation and control of power. Governors
  - For steam engine governors see TJ550+
- 1057       Shafting
- 1057.4     Axles
  - Cf. TF386 Rail car axles
  - Cf. TF949.A9 Electric railway car axles
  - Cf. TL683.A8 Airplane axles
- 1058       Rotors
- 1059       Universal joints

## Machinery exclusive of prime movers -- Continued

- 1060 Brakes  
 Cf. TF415+ Railroad brakes  
 Cf. TF949.B7 Electric railway brakes  
 Cf. TJ669.B7 Locomotive brakes  
 Cf. TJ880 Hydraulic brakes  
 Cf. TJ1377 Elevator brakes  
 Cf. TK4081 Electric brakes  
 Cf. TL269+ Automobile brakes  
 Cf. TL683.B7 Airplane brakes
- 1060.2 Shock absorbers  
 Cf. TF393 Railroads  
 Cf. TL257.5 Motor vehicles  
 Cf. TL683.S4 Airplanes
- Bearings  
 Cf. TA660.B45 Structural engineering
- General and metallic bearings
- 1061 General works  
 1063 Plain bearings. Journal bearings  
 1065 Pillow blocks, hangers, brackets  
 1067 Pivot bearings  
 1069 Collar bearings  
 1071 Antifriction devices. Ball and roller bearings
- Nonmetallic bearings  
 Including special types of bearings
- 1072 General works  
 1073.A-Z Special materials, A-Z  
 1073.C45 Ceramic  
 1073.J4 Jewel  
 1073.P6 Plastic  
 1073.R8 Rubber  
 1073.W6 Wood
- 1073.5 Hydrodynamic and hydrostatic lubrication. Gas-lubricated bearings  
 1073.6 Oil mist lubrication  
 1073.7 Magnetic bearings
- 1074 Clutches. Friction clutches  
 For automobile clutches see TL261
- Tribology. Lubrication and friction
- 1075.A2 Periodicals, societies, etc.  
 1075.A3-Z General works
- Lubricants  
 Cf. TJ789 Lubrication of motors and engines  
 Cf. TP669+ Oils, fats, etc.
- 1077 General works  
 1077.5 A-Z Special lubricants and methods, A-Z  
 1077.5 E43 Elastohydrodynamic lubrication  
 1078 Solid lubricants
- 1079 Oilfeeders, etc.  
 1081 Oil strainers, etc.
- 1095 Traction drives
- Belt gearing. Belt transmission
- 1100 General works  
 1103 Pulleys  
 1105 Belting  
 1107 Belt shifters, etc.  
 1115 Rope transmission

- Machinery exclusive of prime movers
  - Belt gearing. Belt transmission -- Continued
  - 1117 Chain gearing
  - 1119 Link belting
  - Toothed gearing see TJ184+
- Machine shops and machine shop practice
  - Cf. TS200+ Metal manufactures. Metal forming
  - 1125 General works
  - 1127 Film catalogs
  - Building and arrangement of machine shops
    - 1130 General works
    - 1133 Plans for buildings and shops
  - Management of machine shops
    - Drafting-room practice see TJ227+
    - 1135 General works
    - Accounting and bookkeeping see HF5686.M2
    - 1143 Production standards. Time and motion study
    - 1146 Cost of production
    - 1148 Estimating
      - Including estimates
    - 1150 Storerooms, stockrooms, supplies
  - Machine shop practice
    - 1160 General works
    - 1165 Machinists' manuals. Shop kinks, shop mathematics, repairing, etc.
    - 1166 Gages and gaging systems
    - 1167 General special
      - Including errors in workmanship, accuracy of fitting, etc.
  - 1170 Directories of dealers in machinery and supplies
  - Special companies (History, etc.) see TJ130.A+
  - 1175 Catalogs of machinery (General)
  - 1177 Safety appliances (General)
    - For safety appliances for special types of machinery, see the machinery, e. g. TS850
    - Woodworking
- Machine tools and machining
  - Including design, manufacture, and use
  - Cf. TS215 Use of metal working machinery (General)
  - 1180 Periodicals, societies, etc.
  - 1183 Dictionaries and encyclopedias
  - 1185 General works
  - 1185.5 Automatic lines, indexing tables, transfer machines
  - 1186 Cutting tools
    - Class here drill bits, milling cutters, reamers, broaches, etc., treated collectively
    - For cutting tools treated individually, see the special numbers, e. g. TJ1263 Drills; TJ1270
    - Reamers
  - 1187 Jigs and fixtures
  - 1187.4 Spindles
  - 1188 Machine tool drives
    - For electric drives, see TK4059.M32
  - 1189 Numerical control of machine tools
    - For numerical control of special types of machinery, see the machinery, e. g. TJ1225 Milling machines
  - 1190 Catalogs
  - 1191 Special types of machining
    - Including electric spark, ultrasonic, etc.
  - 1191.5 Micromachining
  - Materials used in machine and hand tools



- Machine shops and machine shop practice
  - Machine tools and machining
    - Materials used in machine and hand tools -- Continued
      - 1192 General works
      - Special materials
        - 1193 Diamonds and other precious stones
        - 1194 Plastics. Other materials (not A-Z)
    - Handtools
      - Cf. TH5618 Carpentry tools
      - Cf. TL1098 Space tools
      - Cf. TT186 Woodworking tools
    - General works
      - 1195 General works
      - 1200 Catalogs
      - 1201.A-Z Special handtools, A-Z
        - 1201.A9 Axes
          - Files see TJ1285
        - 1201.H3 Hammers
        - 1201.N8 Nut runners and setters
        - 1201.P55 Planes
          - Pliers see TJ1201.T64
          - Saws see TJ1235
        - 1201.S3 Scrapers
        - 1201.S34 Screwdrivers
        - Shears see TJ1240
        - 1201.S68 Squares
        - 1201.T64 Tongs. Pliers
        - 1201.V5 Vises
        - 1201.W44 Wedges
        - 1201.W8 Wrenches
      - Special tools
        - Planing machines
          - 1205 General works
          - 1206 Planers
          - 1208 Shapers. Routing tools
            - Cf. TT203.5 Woodworking
        - 1210 Slotting and grooving machines
        - Turning machines. Screw machines
          - Cf. TT207 Metal turning
        - 1215 General works
        - Lathes
          - 1218 General works
          - 1219 Chucks
          - 1220 Boring attachments
          - 1222 Screw-cutting machines
          - Milling machines
            - For gear cutting machinery see TJ187
          - 1225 General works
          - 1227 Milling cutters
        - Cutting and sawing machinery
          - Cf. TK4660.5 Electric cutting machinery
        - 1230 General works
        - Saws
          - For sawmill machinery see TS850
        - 1233 General works
        - 1235 Saw filing
          - Cf. TJ1285 Files and filing

- Machine shops and machine shop practice
  - Machine tools and machining
    - Special tools
      - Cutting and sawing machinery
        - Saws -- Continued
          - 1237 Saw sets
          - 1240 Shears
      - Perforating machinery
        - 1250 General works
        - Punching machinery
          - Cf. TS253 Punch and die work; press tool work
        - 1255 General works
        - 1257 Multiple punches
      - Drilling machinery
        - 1260 General works
        - Drills
          - Including making and tempering
        - 1263 General works
        - 1265 Catalogs
        - 1270 Reamers
      - Abrading machinery. Grinding, lapping, etc. Sharpening
        - Cf. TS654.5 Electrolytic polishing
        - 1280 General works
        - 1285 Files and filing
          - Cf. TJ1235 Saw filing
        - 1287 Catalogs
        - 1290 Emery wheels
        - 1293 Grindstones
        - Abrasives and polishes
          - 1296 General works
          - 1298 Carborundum. Silicon carbide
      - Bending machines
        - Including straightening and shaping
        - Hammers. Steam hammers. Power hammers, etc.
          - 1305 General works
          - 1310 Riveting machines
          - 1313 Measuring tools, rules, calipers, etc.
          - 1315 Bench work and fitting
      - Assembling machines
        - 1317 General works
        - 1317.5 Orienting mechanisms
      - Fasteners
        - Cf. TA492.A+ Special forms in metal
        - 1320 General works
        - 1325 Rivets
        - 1327 Retaining rings
        - 1328 Pins
        - 1329 Keys and keyways. Splines
        - Bolts and nuts
          - 1330 General works
          - 1333 Bolt cutters
          - 1335 Taps and dies
        - Screws and screw threads
          - 1338 General works
          - 1340 Standards
          - Screw-cutting machines see TJ1222

- Machine shops and machine shop practice -- Continued
- 1345 Crushing and milling machinery  
 Cf. TE239 Stonecrushers for road material  
 Cf. TJ1225+ Milling machines  
 Cf. TJ1280+ Abrading machinery  
 Cf. TN496+ Ore-dressing, etc.  
 Cf. TP937.5 Paint machinery  
 Cf. TS2120+ Flour mills, etc.
- Hoisting and conveying machinery  
 Cf. TS180.3 Materials handling machinery
- 1350.A1 Periodicals, societies, etc.  
 1350.A2-Z General works  
 1353 Catalogs  
 1355 Excavators  
 Cf. TA735+ Excavating machinery (Operation and use)
- Hoisting machinery  
 Cf. TJ793.3 Internal combustion engines for hoisting machinery
- 1357 Blocks and falls  
 1359 Chain blocks  
 1360 Vacuum lifters  
 1361 Shear legs, etc.  
 1362 Winches  
 Cranes and derricks  
 General works  
 Travelling cranes  
 1363  
 1365 Lifting magnets  
 1366 Details of construction  
 1367 Including girders and beams
- Elevators  
 General works  
 1370 Specifications  
 1372 Electric elevators  
 1374 Hydraulic elevators  
 1375 Escalators  
 1376 Brakes and safety devices  
 1377 Elevator service in buildings  
 1380  
 1382 Dumbwaiters  
 1383 Hoists  
 For ashes, etc.
- Conveying machinery  
 Cableways. Telferage. Wire rope transportation  
 1385 General works  
 1386 Aerial tramways  
 Cf. TN332 Mining
- 1387 Electric telfer systems  
 Conveyors, belts, etc., for assembly line production. Endless carriers
- 1390 General works  
 1395 Catalogs  
 1398 Conveyors, chutes, etc., for letters, parcels, cash, etc.  
 1400 Passenger conveyors  
 1405 Coal-handling machinery  
 Cf. TF294 Locomotive coaling plants  
 Cf. TH4471 Coal-handling plants  
 Cf. TJ898.5 Coal slurry pipelines  
 Cf. TN815 Mining
- 1410 Ash-handling machinery

- Hoisting and conveying machinery
  - Conveying machinery -- Continued
    - Grain-handling machinery
      - Cf. TH4461 Grain elevators
- 1415 General works
- 1417 Special systems, companies, etc.
- 1418 Dumping devices
- Lifting and pressing machinery
  - 1425 General works
  - 1428 Inclined planes
  - Lifting jacks
    - 1430 General works
    - 1433 Screwjack
    - 1435 Hydraulic jack
  - Presses
    - 1450 General works
    - 1452 Catalogs
    - 1455 Screw press
    - 1460 Hydraulic presses
    - 1465 Pneumatic presses
    - Filter presses
      - 1470 General works
      - 1475 Catalogs
- Agricultural machinery. Farm machinery
  - Cf. S671+ Utilization of agricultural machines
  - Cf. S675.5 Maintenance and repair
  - Cf. S677 Catalogs
- 1480.A1 Periodicals, societies, etc.
- 1480.A2-Z General works
- 1482 Soil working machines: plows, harrows, cultivators, etc.
- 1483 Seeders, planters, etc.
- 1484 Machines for caring for plants
- 1485 Harvesters, reapers, etc.
- 1486 Threshing machines. Combines
- 1486.5 Lumbering machinery
- 1487 Other
  - Farm gas engines see TJ777.F3
  - Farm steam engines see TJ712
  - Gasoline tractors see TL233+
  - Pumps and pumping engines see TJ899+
  - Trucks see TL230+
- 1495.A-Z By region or country, A-Z
- 1496.A-Z By company, A-Z
- Sewing machines
  - Cf. TT713 Sewing machine work
- 1501 Periodicals, societies, etc.
- Exhibitions
  - 1503.A1 General works
  - 1503.A2-Z By region or country, A-Z
    - Subarrange each country by Table T4b
- 1504 Dictionaries and encyclopedias
- 1505 Directories
- 1507 History
- 1510 General works
- 1512 Patents
- 1513 General special

- Sewing machines -- Continued
- 1515        Manuals of instruction for users
- 1519        Trade catalogs
- Other special machinery
- 1530        Goffering machines
- 1535        Winding machines
- 1540        Screening machinery
- (1545)      Packaging machinery  
              see TS196.4
- 1550        Wrapping machines
- 1555        Sorting devices
- Coin operated machines
- 1557            General works
- 1560            Vending machines
- 1570            Amusement machines

## Electrical engineering. Electronics. Nuclear engineering

For electricity in general see QC501+

For works combining mechanical and electrical engineering see TJ163+

For production of electric energy see TK1001+

For dynamoelectric machinery and auxiliaries see TK2000+

For distribution or transmission of electric power see TK3001+

## Periodicals and societies

Arrange by language of publication

1.A1 International or polyglot

1.A3-Z English

2 French

3 German

4 Other languages (not A-Z)

5 Congresses

## Exhibitions. Museums

For telegraphic exhibitions see TK5107.5.A1+

6.A1 General works

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

Subarrange each country by Table T4b

7 Collected works (nonserial)

9 Dictionaries and encyclopedias

Cf. QC505 Electrical dictionaries

11 Electrotechnical readers

12 Directories of electrical industries

For central station directories see TK1194

(13) Yearbooks

see TK1+

## History

15 General works

16 Early to 1830

17 Nineteenth century, 1830-1880

18 1880-

21-127 Country divisions (Table T1a)

Add country number in table to TK0

Including general reports of government bureaus

## Biography

139 Collective

140.A-Z Individual, A-Z

## General works

143 Before 1830

144 1830-1870

145 1870-

146 Elementary textbooks

147 Laboratory manuals, outlines, syllabi, etc.

For standardizing see TK275+

For testing see TK401

148 Juvenile works. Popular works

For amateur's handbooks see TK9900+

151 Pocketbooks, tables, etc.

152 Safety measures (General)

153 General special

Including electromechanical transducers

155 Addresses, essays, lectures

159 Electrical engineering as a profession

For electrical engineering (Biography) see TK139+

Study and teaching

- Study and teaching -- Continued
- 165 General works
- 168 Problems, exercises, etc.
- 169 Examinations, questions, etc.
- America
- 171 General works  
United States
- 173 General works
- 174.A-W States, A-W
- 175.A-Z Cities, A-Z
- Canada
- 176 General works
- 177.A-Z Special provinces, A-Z
- 178.A-Z Special cities, A-Z
- 179 Latin America
- 180 Mexico  
Central America
- 182 General works
- 183.A-Z Special countries, A-Z
- West Indies
- 185 General works
- 186.A-Z Special islands, A-Z
- South America
- 188 General works
- 189.A-Z Special countries, A-Z
- Europe
- 191 General works
- 192.A-Z Special countries, A-Z
- Asia
- 194 General works
- 195.A-Z Special countries, A-Z
- Africa
- 197 General works
- 199.A-Z Special countries, A-Z
- Australia
- 201 General works
- 202.A-Z Special states, A-Z
- 203 New Zealand  
Pacific islands
- 204 General works
- 205.A-Z Special islands, A-Z
- Special schools
- United States
- 210.A-Z By school, A-Z
- 211.A-Z Correspondence schools, A-Z
- 213.A-Z Other countries. By school, A-Z
- (215-255) Laws and legislation relating to applications of electricity  
see class K
- 257 Patents
- 260 Insurance requirements  
Cf. TK3275 Wiring

- Electric standards and measurements
  - Class here works of a practical nature
  - For standards of special machinery or material, see the subject, e.g. TK2311 Dynamoelectric machinery; TK3307 Wire and cable
  - For works on the theory, experimental aspects and study of electrical measurements see QC535+
  - For testing of electric machinery see TK401
  - Cf. TK425 Specifications
- 275 General works
- 277 General special
- Electric meters
- 301 General treatises
- General catalogs
- 308 Manufacturers' catalogs
- 309 Supply companies' catalogs
- Meters for special measurements
- 311 Resistance meters and measurements
  - Including galvanometers, ohmmeters, resistance boxes, Wheatstone's bridge, shunts
- 315 Impedance meters and measurements
- 321 Potential and voltage meters and measurements
  - Including voltmeters, voltage detectors
- 325 Voltohmmeters
  - For combined works on voltohmmeters and vacuum tube voltmeters see TK7879.2
- 331 Intensity and current meters and measurements
  - Including ammeters, coulometers, ampere-hour meters, voltmeters
- 335 Capacitance meters and measurements
- 341 Quantity meters and measurements
  - Including wattmeters
- 351 Energy and power meters and measurements
  - Including watt-hour meters, power factor meters
- 381 Other meters and measurements
  - Including frequency meters and measurements, oscillographs, phase meters, synchronizers
- 393 Recording meters (General). Process recorders
  - For special types see TK311+
- 396 Prepayment meters
- 399 Telemeter systems
- 401 Testing of electric machinery and appliances (General)
  - For the testing of special machinery or appliances, see the special subject, e.g. TK2316 Machinery testing
  - Cf. TK147 Laboratory manuals
  - Cf. TK275+ Electric measurement
- Electrical engineering and testing laboratories
- 411 General works
- 415.A-Z Special laboratories, A-Z
- 425 Specifications (General)
  - For specifications for special machinery, etc., see the special subject, e.g. TK2321 Dynamoelectric machinery
- 431 Drawings
- 435 Estimates
- Management and superintendence of electrical enterprises
  - Cf. TK1811 Management of electric power plant central stations
- 441 General works
- 445 Business getting. Soliciting
- Interconnection of power systems
  - General works
- 447 Automation
- 448



- General electrical manufacturing and engineering companies
  - For economic aspects see HD9685.A1+
- 451.A2 Collective
- 451.A3-Z Individual, A-Z
- Electric apparatus and materials
- 452 General works
- 453 Materials (General)
- Electric circuits
  - Cf. TK3226 Electric-power circuits
- 454 General works
- 454.15.A-Z Special circuits, A-Z
- 454.15.A48 Alternating current
- 454.15.D57 Direct current
- 454.15.E65 Equivalent
- 454.15.P37 Parallel
- 454.15.S47 Series
- 454.2 Electric networks
  - Cf. TK3226 Electric-power networks
- 454.4.A-Z Special, A-Z
- 454.4.C6 Copper
- 454.4.E5 Electromagnets
- 454.4.E9 Explosionproof apparatus
- Insulation and insulating materials see TK3401+
- 454.4.L3 Laminated metals
- 454.4.M3 Magnetic materials
- 454.4.M33 Magnetic shielding
- Meters see TK301+
- Microelectromechanical systems see TK7875
- 454.4.P5 Phosphors
- 454.4.P55 Plastics
  - Cf. TK3441.P55 Plastics (Insulation)
- 454.4.P7 Protective coatings
- 454.4.S7 Steel
- 454.4.S93 Superconductors
  - Cf. TK7872.S8 Superconductors (Electronics)
- 454.4.T3 Talc
- 455 Catalogs of electric machinery and supplies
- Theory
  - Theory (General)
    - see TK143+
  - Theory of dynamoelectric machinery see TK2211
  - Theory of direct-current machinery see TK2615
  - Theory of alternating-current machinery see TK2715
  - Theory of the line see TK3226
  - Special
    - 531 Current and voltage waveforms
    - 541 Resonance in electrical engineering
- Production of electric energy or power
  - For powerplants see TK1191+
  - For dynamoelectric machinery (General) see TK2000+
  - For distribution of electric power see TK3001+
- 1001 General works
- 1005 General special
- 1006 Distributed generation
  - Including small-scale power generation, metropolitan plants
- 1007 Electric power systems control

- Production of electric energy or power -- Continued
- 1010 Electric power system stability
  - Including quality control and reliability
- 1020 Emergency power supply
- 1025 Security measures
- 1030 State estimation
- Production from heat. Cogeneration of electric power and heat
  - Cf. TK2950+ Thermoelectricity (Applied)
- 1041 General works
- 1051 Production from steam (Coal)
- 1055 Production from geothermal energy
- 1056 Production from solar thermal energy
- 1061 Production from gas
- 1071 Production from other fuels
- 1073 Ocean thermal energy conversion
- 1075 Diesel engine electric plants
- 1076 Gas turbine power plants
- 1078 Production from atomic power
- Production from waterpower. Hydroelectric power production
  - For special countries and plants see TK1421+
- 1081 General works
- 1083 Pumped storage power plants
- Production from windpower see TK1541
- Direct production from chemical action see TK2901+
- Production from solar energy
- 1085 General works
- 1087 Photovoltaic power generation. Photovoltaic power systems
  - Including building-integrated photovoltaic systems
  - Cf. TK2960+ Solar batteries. Solar cells
  - Cf. TK8322 Photovoltaic cells
- Production from solar thermal energy see TK1056
- Production classified by character of the electric current
  - For distribution of electric energy (classified by character of the electric current) see TK3101+
  - General works see TK1001+
  - Direct-current engineering
    - Cf. TK2611+ Direct-current dynamoelectric machinery
- 1111 General works
- 1121 Edison three-wire system
- Alternating-current engineering
  - Cf. TK2711+ Alternating-current machinery
- 1141 General works
- 1145 Single-phase currents
- 1151 Two-phase currents
- Polyphase currents
  - Cf. TK2745+ Polyphase-current machinery
- 1161 General works
- 1165 Three-phase currents
- 1168 Multiphase currents

## Production of electric energy or power -- Continued

## Electric power plants (General)

Including light and powerplants

For special types see TK1001+

For dynamoelectric machinery and auxiliaries see TK2000+

For central stations wiring see TK3281

For electric lighting stations see TK4201+

For telegraph power production see TK5371

For telephone power production see TK6271+

Cf. TH4581+ Construction of powerplants

1191

General works

1193

Special regions or countries, A-Z

1194

Directories

Cf. TK12 Directories of electrical industries

## Special

1221-1327

Power plants utilizing heat energy (Table T1a)

Add country number in table to TK1200

Cf. TK1041+ Production of electric energy from heat

Power plants utilizing nuclear power

Cf. TK1078 Production of electric energy from nuclear power

## America

1341

General works

United States

1343

General works

1344.A-W

States, A-W

1345.A-Z

Cities, A-Z

Canada

1346

General works

1347.A-Z

Special provinces, A-Z

1348.A-Z

Special cities, A-Z

1349

Latin America

1350

Mexico

Central America

1352

General works

1353.A-Z

Special countries, A-Z

West Indies

1355

General works

1356.A-Z

Special islands, A-Z

South America

1358

General works

1359.A-Z

Special countries, A-Z

## Europe

1361

General works

1362.A-Z

Special countries, A-Z

## Asia

1364

General works

1365.A-Z

Special countries, A-Z

## Africa

1367

General works

1369.A-Z

Special countries, A-Z

## Australia

1371

General works

1372.A-Z

Special states, A-Z

1373

New Zealand

Pacific islands

1374

General works

- Production of electric energy or power
  - Electric power plants (General)
    - Special
      - Power plants utilizing nuclear power
        - Pacific islands -- Continued
        - 1375.A-Z Special islands, A-Z
        - 1421-1527 Power plants utilizing waterpower (Table T1a)
          - Add country number in table to TK1400
          - Cf. TK1081+ Production of electric energy from waterpower
        - 1541 Power plants utilizing wind
        - Power plants utilizing both heat and waterpower see TK1221+
        - 1545 Power plants utilizing solar energy
          - Cf. TK1056 Production of electric power from solar thermal energy
        - 1560 Power plants utilizing other power
      - Substations
      - 1751 Central station management
        - For machine operators' manuals see TK2184
        - For electric lighting (Central station management) see TK4238
      - 1811 Central station testing
        - Cf. TK2316 Testing of dynamoelectric machinery
      - 1831 Electric power rates
        - Cf. HD9685.A1+ Economic aspects
        - Cf. TK21+ Special places
      - 1841 Dynamoelectric machinery and auxiliaries
        - Including motive power, machinery and auxiliaries
        - For production of electric energy see TK1001+
        - For powerplants see TK1191+
        - For auxiliaries (General) see TK2811+
      - 2000 General works
      - Dynamoelectric machinery
        - Including both direct and alternating-current generators, motors, etc.
      - 2081 Special motive power and driving apparatus for dynamoelectric machinery
        - General works
          - 2181 Treatises
          - 2182 Elementary textbooks
          - 2184 Operators' manuals
          - Amateurs' handbooks of generator and motor construction see TK9911
        - 2189 General special
      - 2211 Theory
        - For theory of direct-current machinery see TK2615
        - For theory of alternating-current machinery see TK2715
      - 2271 Eddy currents in electrical engineering
      - 2281 Commutation and brush resistance
        - Cf. TK2481 Commutation
      - 2311 Standards
      - 2313 Monitoring
      - 2316 Testing
        - For central station testing see TK1831
        - For generators and motors see TK2433
        - For direct-current machinery see TK2623
        - For alternating-current machinery see TK2723
      - 2321 Specifications
      - 2325 Machine drawing for electrical engineers

- Dynamoelectric machinery and auxiliaries
  - Dynamoelectric machinery -- Continued
    - 2331 Design and construction
      - For generators and motors see TK2435
      - For direct-current machinery see TK2625
      - For alternating-current machinery see TK2725
    - 2341 Types of dynamoelectric machinery
      - For generators see TK2441+
      - For motors see TK2537
      - For direct-current machinery see TK2631
      - For alternating-current machinery see TK2731
    - 2391 General special
      - Including automata, coils, etc.
    - Generators (General) (D.C. and A.C.). Dynamos
      - Including works treating of both generators and motors
      - For direct-current generators see TK2661+
      - For alternating-current generators see TK2761+
      - For machinery for electric lighting see TK4241
      - For amateurs' handbooks of generator construction see TK9911
    - 2411 General works
    - 2433 Testing of generators and motors
    - 2435 Design and construction of generators and motors
      - For design of details see TK2451+
      - For design of direct-current generators see TK2625
      - For design of alternating-current generators see TK2761+
    - Types of generators
      - For direct-current generators see TK2665
      - For alternating-current generators see TK2765
  - 2441 General works
  - 2448 Variable speed generators
  - Details
    - 2451 General works
    - Special
      - Mechanical details
        - 2456 General works
        - 2458.A-Z Special, A-Z
        - 2458.B4 Bearings
        - 2458.F68 Foundation
        - 2458.S5 Shafting
      - Magnetic details
        - 2461 General works
        - Special
          - 2464 Field yoke
          - 2465 Field poles
          - 2466 Field shoes
      - Electrical details
        - 2471 General works
        - Special
          - Winding
            - 2474 General works
            - 2475 Field winding and spools
            - 2477 Armature winding and armatures
          - 2481 Commutators and collectors
            - For commutation see TK2281
          - 2484 Brush holders and brushes
          - 2487 Shunts. Leads

- Dynamoelectric machinery and auxiliaries
  - Dynamoelectric machinery
    - Generators (General) (D.C. and A.C.). Dynamos
      - Details
        - Special
          - Electrical details
            - Special -- Continued
        - Terminals
      - General special
    - Motors (General) (D.C. and A.C.)
      - For works treating of generators and motors together see TK2411+
      - For direct-current motors see TK2681
      - For alternating-current motors see TK2781+
      - For use of electric motors see TK4055+
    - Treatises
    - Elementary textbooks
    - Amateurs' handbooks
      - see TK9911
    - Types
      - For railway motors see TF935
    - Details
      - For details in common with generators see TK2451+
  - Transforming machinery (D.C. and A.C.)
    - For direct-current transforming machinery see TK2691+
    - For alternating-current transforming machinery see TK2791+
    - For amateurs' handbooks of transformer construction see TK9915
  - Direct-current machinery
    - For direct-current engineering see TK1111+
    - General works
      - Treatises
      - Textbooks
      - Theory
        - Including short-circuited currents in armatures
    - Testing of D.C. machinery
    - Design and construction
    - Types
      - Details see TK2451+
    - General special
    - Special direct-current machinery
      - Direct-current generators
        - General works
        - Design see TK2625
      - Types
        - Including constant-potential generators, low voltage generators, constant-current generators, commutation pole generators
        - Details see TK2451+
  - Direct-current motors
  - Direct-current transforming machinery
  - General works
    - Special
      - Inverters
      - Dynamotors
      - Motor generators
      - Boosters
    - Other direct-current machinery

- Dynamoelectric machinery and auxiliaries
- Dynamoelectric machinery -- Continued
- Alternating-current machinery
  - Cf. TK1141+ Alternating-current engineering
  - General works
  - 2711      Treatises
  - 2712      Textbooks
  - 2715      Technique of alternating-current machinery
    - Including "hunting" fields, parallel driving
  - 2723      Testing of alternating-current machinery
  - 2725      Design and construction
  - 2731      Types of alternating-current machinery
    - Including synchronous, polyphase, etc.
  - Details see TK2451+
  - 2744      General special
  - Special classes of alternating-current machinery
  - 2745      Polyphase-current machinery
    - For polyphase currents see TK1161+
  - Alternating-current generators
    - 2761          General works
    - 2765          Types
  - Alternating-current motors
    - 2781          General works
    - Types
      - 2785          Induction, asynchronous and polyphase motors. Squirrel-cage motors
      - Starting compensators see TK2851
      - 2787          Synchronous motors
      - 2789          Repulsion motors. Repulsion induction motors. Commutator motors. Series-wound motors
  - Alternating-current transforming machinery
    - D.C. to A.C. transforming machinery
      - 2791          General works
      - A.C. transformers. Autotransformers or compensators. "Current" transformers
      - 2792          General works
      - 2794          Types
    - A.C. to D.C. transforming machinery
      - 2795          General works
      - 2796          Converters. Rotaries
      - 2797          Motor-generator sets (A.C. synchronous or induction motors)
        - Including cascade converters (i.e. induction motor-dynamo; secondary winding of motor and armature of generator in cascade)
      - 2798          Other A.C. to D.C. transformers. Aluminum cells
        - Cf. TK7871.7+ Electron tubes
    - Other alternating-current machinery
      - 2799          Including frequency converters
  - 2805      Condensers
  - Apparatus auxiliary to dynamoelectric machinery
  - 2811      General works
  - Switchboards and accessories
    - Including switchboard meters, switches, rheostats
    - For switchboards for electric power for telephones see TK6271+
    - For switchboards for telephone line connections see TK6391+
  - 2821      General works
  - 2822      Direct current
  - Alternating current
  - 2825      General works

- Dynamoelectric machinery and auxiliaries
  - Apparatus auxiliary to dynamoelectric machinery
    - Switchboards and accessories
      - Direct current -- Continued
        - 2826 Low tension A.C.
        - 2828 High tension A.C.
      - 2831 Switches
        - Circuit breakers and fuses
          - 2841 General works
          - 2842 Circuit breakers
          - 2846 Fuses and "Cutouts"
            - For fuses (General) see TK3511
        - 2851 Rheostats. Regulators. Controllers. Starters
          - For controllers or starters for electric cars see TF930
        - 2861 Relays
        - 2891 Accumulators in central stations
- Devices for production of electricity by direct energy conversion
  - Cf. TL783.54+ Rocket engine propulsion
  - 2896 General works
  - 2897 Energy harvesters
    - Including microharvesters
- Production of electricity directly from chemical action
  - General works
  - 2901 Materials (General)
    - For works on individual energy storage materials, see the material in TK2945.A+ e.g., TK2945.L58 Lithium
  - Special apparatus
    - For amateurs' manuals see TK9917
- 2921 Primary cells
  - For special types see TK2945.A+
- Fuel cells
  - 2931 General works
  - 2933.A-Z Special devices, A-Z
    - 2933.D57 Direct methanol fuel cells
    - 2933.M65 Molten carbonate fuel cells
    - 2933.P76 Proton exchange membrane fuel cells
    - 2933.S65 Solid oxide fuel cells
- 2941 Storage batteries. Rechargeable batteries. Secondary cells
  - For accumulators in central stations see TK2891
  - For special types see TK2945.A+
- 2942 Solid state batteries
- 2943 Battery chargers
- 2945.A-Z Other special batteries or energy storage materials, A-Z
  - 2945.C37 Carbon
  - 2945.C47 Ceramics
  - 2945.E44 Electrodes
  - 2945.F56 Flow batteries
  - Fuel cells see TK2931+
  - 2945.L42 Lead-acid
  - 2945.L58 Lithium
  - 2945.N36 Nanocomposites. Nanostructured materials
    - Nanostructured materials see TK2945.N36
  - 2945.N52 Nickel-cadmium
  - 2945.N53 Nickel-hydrogen
  - 2945.P65 Polymers
  - 2945.P68 Potassium-ion



- Devices for production of electricity by direct energy conversion
  - Production of electricity directly from chemical action
    - Special apparatus
      - Other special batteries or energy storage materials, A-Z -- Continued
      - 2945.S62 Sodium ion
      - 2945.S63 Sodium-sulfur
      - Solid state batteries see TK2942
      - Thermal batteries see TK2953
      - 2945.Z55 Zinc
    - Thermoelectricity (Applied)
      - 2950 General works
      - Special apparatus
        - 2953 Thermal batteries
        - 2955 Thermionic converters
    - Solar batteries. Solar cells
      - Cf. TJ812.5 Solar engines
      - Cf. TK1056 Production of electric power from solar thermal energy
      - Cf. TK1087 Photovoltaic power generation. Photovoltaic power systems
      - Cf. TK8322 Photovoltaic cells
      - Cf. TK9918 Amateur construction
      - Cf. TL1100+ Electric equipment on space vehicles
      - 2960 General works
      - 2963.A-Z Special types of solar batteries or solar cells, A-Z
        - 2963.D94 Dye-sensitized solar cells
        - 2963.G35 Gallium arsenide solar cells
        - 2963.H93 Hybrid solar cells
        - 2963.P47 Perovskite solar cells
        - 2963.S55 Silicon solar cells
      - 2965 Atomic batteries. Isotopic power generators
      - 2970 Magnetohydrodynamic generators
        - Cf. TL783.6 Plasma rockets
        - Cf. TL1102.G4 Generators
      - 2975 Electrohydrodynamic generators
      - Electric energy storage
        - Cf. TK1081+ Pumped storage power plants
        - Cf. TK2805 Condensers
        - Cf. TK2891 Storage batteries
      - 2980 General works
      - 2985 Magnetic energy storage
      - 2986 Pulsed power systems
    - Distribution or transmission of electric power
      - Including the electric-power circuit
        - Cf. TK1001+ Production of electric energy
      - 3001 General works
      - 3070 Automatic control
        - For smart power grids see TK3105
      - 3081 Testing of distribution systems
        - For the line and component parts see TK3207
      - 3084 Earthquake effects
      - 3085 Lightning protection
      - 3088 Wireless power transmission
      - 3091 General special
        - Systems
          - For overhead and underground systems see TK3221+
          - For electric lighting (Systems) see TK4303+
      - 3101 General works. Tapping of line for various uses

## Distribution or transmission of electric power

## Systems -- Continued

- 3105 Smart power grids  
For specific types of smart grids see the type, e.g., Microgrids see TK3106
- 3106 Microgrids
- 3107 Transformation of electricity (General)  
For transforming machinery see TK2551
- 3111 Direct-current systems  
Cf. TK1111+ Direct-current engineering
- Alternating-current systems  
Cf. TK1141+ Alternating-current engineering
- 3141 General works
- 3142 Low tension A.C. systems (to 500 volts)
- 3143 Medium tension A.C. systems (500-10,000 volts)
- 3144 High tension A.C. systems (above 10,000 volts)
- 3148 Flexible AC transmission systems
- 3151 Single-phase current systems
- 3153 Two-phase current systems
- Polyphase current systems
- 3155 General works
- 3156 Three-phase current systems
- 3158 Multiphase current systems
- 3159 Polycyclic systems  
Class here combinations of single and two-phase currents transmitted over single line and used as single and two-phase current at point of application
- 3171 Composite systems (A.C. and D.C.)
- Wiring
- Including central station, line and user's plant  
For special wiring, see the subject, e.g. TK4255, Electric lighting; TK5441, Telegraph; TK6341 Telephone  
For the line (General) see TK3221+
- 3201 General works
- 3205 Pocketbooks, tables, diagrams, etc.  
For tables of properties and dimensions of wire see TK3305
- 3207 Testing of line and component parts  
For distribution system testing see TK3081  
For wire see TK3307
- 3211 General special
- The line
- 3221 General works
- 3226 Technique of the line. Electric-power circuits and networks  
Including induction capacity, etc., of parallel lines, heat losses of overhead lines and underground lines  
Cf. TK454+ Electric circuits (Apparatus)  
Cf. TK454.2 Electric networks (Apparatus)  
Cf. TK7872.T74 Electronic circuits
- 3227 Grounding
- Aerial or overhead lines and component parts  
For telegraph overhead lines see TK5452+  
For telephone overhead lines see TK6352
- 3231 General works
- 3239 Catalogs
- Details
- 3242 Poles, crossarms and towers
- 3243 Pole supports

## Distribution or transmission of electric power

## Wiring

## The line

## Aerial or overhead lines and component parts

## Details -- Continued

3246

## Line insulators. Testing of insulators

Cf. TK3431 Testing of insulating material

3248

## Lightning arresters (General)

## Underground lines and component parts

For telegraph underground lines see TK5465+

For telephone underground lines see TK6365

3251

## General works

3255

## General special

Including electrolysis due to underground systems

Cf. TF912 Stray currents from electric traction

3258

## Specifications

3261

## Details

Including conduits, manholes

For cables see TK3351

## Interior or indoor wiring

3271

## General works

3275

## Insurance underwriters' requirements

3278

## Specifications

3281

## Central station wiring

3283

## Factory wiring

3284

## Commercial building wiring

3285

## House wiring

## Conductors. Wires. Cables

For telegraph wire and cable see TK5481

For telephone wire and cable see TK6381+

3301

## General works

3303

## Juvenile works

3305

## Tables of properties and dimensions of wire

Cf. TK3205 Pocketbooks of wiring

3307

## Standards and testing of wire and cable

For testing of the line (General) see TK3207

3311.A-Z

## Conductors, A-Z

3311.A6

## Aluminum

3311.C6

## Copper

3311.G3

## Gases

3311.P6

## Polymers

3321

## Bare wires

## Insulated wires

3331

## General works

3335

## Testing

Cf. TK3431 Insulating material

3351

## Cables

For submarine cables see TK5661+

## Insulation and insulating material

3401

## General works

## Insulating material

3421

## General works

3431

## Testing

For insulators see TK3246

For insulated wire and cables see TK3335

3441.A-Z

## Special insulating materials, A-Z

- Distribution or transmission of electric power
  - Insulation and insulating material
    - Insulating material
      - Special insulating materials, A-Z -- Continued
        - 3441.C35 Cellulose
        - 3441.C38 Ceramics
        - 3441.E6 Epoxy resins
        - 3441.F55 Fluorine organic compounds
        - 3441.G3 Gases
        - 3441.G5 Glass
        - 3441.L5 Liquids
        - 3441.M4 Metallic oxides
        - 3441.O5 Oil
        - 3441.P25 Paper
        - 3441.P55 Plastics
        - 3441.P58 Polymers
        - 3441.S46 Silicon nitride
        - 3441.S47 Silicon organic compounds
        - 3441.S48 Siloxanes
        - 3441.S5 Slate
        - 3441.S8 Sulfur hexafluoride
        - 3441.V3 Varnish
    - Other details
      - 3511 Fuses (General)
        - For fuses for switchboards see TK2846
      - 3521 Connectors
- Applications of electric power
  - 4001 General works
    - Electric railways see TF854.2+
  - 4015 General special
    - Special applications
      - 4018 Agriculture and the farm
        - Cf. HD9688 Rural electrification
      - 4025 School building equipment
      - Other special, A-Z
        - 4035.A-Z
          - 4035.A35 Air conditioning
            - Airplanes see TL690+
          - 4035.A6 Apartment houses
          - 4035.B83 Building materials industry
          - 4035.C25 Cement industries
          - 4035.C35 Chemical laboratories
          - 4035.C37 Chemical plants
          - 4035.C4 Clothing factories
          - 4035.C47 Clubhouses
          - 4035.C6 Coke industry
            - Commercial buildings see TK4035.M37
          - 4035.F3 Factories (General)
          - 4035.F6 Flour mills
          - 4035.F67 Food industry
          - 4035.H3 Harbors
            - Health facilities and hospitals see RA969.48
            - Heating (Building construction) see TH7409+
            - Heating (Electrical engineering) see TK4601+
          - 4035.H6 Hoisting machinery
          - 4035.H9 Hydraulic structures
          - 4035.K58 Knit goods industry

- Applications of electric power
  - Special applications
    - Other special, A-Z -- Continued
      - 4035.L4 Leather industry
      - 4035.M37 Mercantile buildings. Commercial buildings
      - 4035.M4 Metallurgical plants
      - 4035.M6 Motion picture theaters
      - 4035.N6 Nonferrous metal industries
      - 4035.O7 Ore-dressing plants
      - 4035.P3 Paper industry
      - 4035.P33 Peat industry
      - 4035.P35 Petroleum engineering
      - 4035.P53 Photographic equipment
      - 4035.P55 Pipelines
      - 4035.R3 Railroad repair shops
      - 4035.R4 Refrigeration and refrigerating machinery
      - 4035.R46 Restaurants
      - 4035.R6 Rolling mills
      - 4035.R82 Rubber industry
      - 4035.S4 Service industries
      - 4035.S5 Shipyards
      - 4035.S7 Steelworks
      - 4035.S9 Sugar factories
      - 4035.T4 Textile factories
  - Mechanical applications of electric power
    - 4050 General works
      - Use of electric motors
        - 4055 General works
        - 4057 General special
          - Including motor repairers' manuals
          - Cf. TK3205 Wiring manuals, etc.
    - Electric driving
      - 4058 General works
      - 4059.A-Z Special, A-Z
        - 4059.C64 Compressors
        - 4059.C65 Construction equipment
        - 4059.C67 Conveying machinery
        - 4059.D4 Deck machinery
        - 4059.D73 Dredges
        - 4059.E9 Excavating machinery
        - 4059.F35 Fans
        - 4059.H64 Hoisting machinery
        - 4059.K55 Knitting machines
        - 4059.M32 Machine tools
        - 4059.M55 Mining machinery
        - 4059.P74 Printing presses, machinery, etc.
        - 4059.P85 Pumping machinery
        - 4059.R64 Rolling mill machinery
        - 4059.S55 Sluice gates
        - 4059.T48 Textile machinery
        - 4059.T87 Turbomachines
        - 4059.W56 Winding machines

- Applications of electric power
    - Mechanical applications of electric power
      - Use of electric motors -- Continued
        - Electric calculating machines
          - Class here also works that discuss both electric calculating machines and computers
          - For works on computers only see TK7885+
          - Cf. HF5679 Machine methods in accounting
          - Cf. QA71+ Calculating machines (Mathematics)
  - 4090 General works
    - Special machines
      - Accounting machines
        - 4100 General works
        - 4101.A-Z Special. By make, A-Z
          - e.g.
            - 4101.I5 International Business Machines Corporation
      - 4102 Billing machines
- Electric lighting
  - Cf. TH7700+ Domestic illumination
  - 4125 Periodicals, societies, etc.
  - 4129 Dictionaries and encyclopedias
  - 4131 History
    - Special countries
      - Including annual reports of electric lighting departments
      - Cf. HD4486+ Municipal industries
      - Cf. TK4220+ Special plants
    - America
      - 4134 General works
        - United States
          - 4135 General works
          - 4136.A-W States, A-W
          - 4137.A-Z Cities, A-Z
        - Canada
          - 4138 General works
          - 4139.A-Z Special provinces, A-Z
        - Mexico
          - 4140 Central America
        - Central America
          - 4141 General works
          - 4142.A-Z Special countries, A-Z
        - West Indies
          - 4143 General works
          - 4144.A-Z Special islands, A-Z
        - South America
          - 4145 General works
          - 4146.A-Z Special countries, A-Z
      - Europe
        - 4147 General works
        - 4148.A-Z Special countries, A-Z
      - Asia
        - 4149 General works
        - 4150.A-Z Special countries, A-Z
      - Africa
        - 4151 General works
        - 4152.A-Z Special countries, A-Z
      - Australia
        - 4153 General works
        - 4154.A-Z Special states, A-Z

- Electric lighting
- Special countries -- Continued
- 4154.5 New Zealand
- Pacific islands
- 4155 General works
- 4156.A-Z Special islands, A-Z
- General works
- 4160 Early to 1870
- 4161 1870-
- 4162 Elementary textbooks
- 4164 Electricians' manuals
- 4166 Pocketbooks, tables, etc.
- Wiring for electric lighting see TK4255
- Amateurs' handbooks see TK9921
- 4169 General special
- 4175 Technique. Theory of electric lighting
  - Including candlepower, light distribution
- 4181 Specifications
  - For incandescent lighting see TK4348
- 4186 Management of electric lighting enterprises
  - For management of electric lighting plants see TK4238
- 4188 Special aspects of electric lighting
  - Including city or metropolitan lighting, rural lighting, indirect lighting, lighting of roads
- Lighting machinery and supplies
  - Including catalogs
  - Cf. TK455 Electric machinery and supplies
- 4195 General works
- 4198 Fixtures
  - For gas and electric fixtures combined see TH7960+
- Central stations for lighting
- 4201 General works
- 4218 General special
- Special lighting plants
- 4219 General works
- Special lighting plants utilizing heat energy
- 4220 United States
- 4221 Canada
- 4223.A-Z Other American countries, A-Z
- 4224 Other (Asia, Africa, Australia, and Oceania)
- Special lighting plants utilizing waterpower
- 4225 United States
- 4226 Canada
- 4228.A-Z Other American countries, A-Z
- 4229 Other (Asia, Africa, Australia, and Oceania)
- Special lighting plants utilizing both heat and waterpower
- 4230 United States
- 4231 Canada
- 4233.A-Z Other American countries, A-Z
- 4234 Other (Asia, Africa, Australia, and Oceania)
- 4237 Substations
- 4238 Management of electric lighting plants
  - Cf. TK4186 Electric lighting enterprises
- 4241 Machinery for electric lighting
  - For operators' manuals see TK2184
  - For electric generators see TK2411+
- Distribution in electric lighting

## Electric lighting

## Distribution in electric lighting -- Continued

4251

General works

4255

Wiring for electric lighting. Installation

For insurance underwriters' requirements see TK3275

For pocketbooks and tables for electric lighting see TK4166

## Systems of electric lighting

General and miscellaneous, see TK4160+

4303

Direct-current systems

4304

Alternating-current systems

4308

Composite systems (D.C. and A.C.)

4310

Electric lamps (General)

## Arc lighting

4311

General works

4319

General special

Arc lamps and systems

4321

General works

4322

Types. Open and enclosed arcs

Prefer TK4329

4329.A-Z

Special lamps and systems. By name, A-Z

Details

4331

General works

4335

Carbons

For manufacture of carbons see TK7725

## Incandescent lighting

4341

General works. Handbooks. Pocketbooks

4348

Specifications

4349

General special

Including safety measures

Incandescent lamps and special systems

4351

General works

4352

Types. Carbon and metal filament lamps

4359.A-Z

Special lamps and systems. By name, A-Z

4359.H34

Halogen lamps

4359.N47

Nernst lamps and systems

4359.T9

Tungsten lamps

Details. Wall plugs, sockets, etc.

4361

General works

4365

Filaments

4367

Tests of efficiency of incandescent lamps

## Electric discharge lighting

Cf. TK4311+ Arc lighting

4371

General works

4381

Vapor lamps and systems

Including mercury vapor lamps

4382

Glow lamps

4383

Neon lamps and tubes

4386

Fluorescent lamps and systems

4388

LED lamps and systems

4391

Other lamps and systems (not A-Z)

4395

Private electric-light plants for country houses, etc.

4399.A-Z

Special uses of electric lighting, A-Z

4399.A9

Auditoriums

4399.B8

Building sites

4399.C6

Coal preparation plants

Cf. TN309 Electric lighting of mines



- Electric lighting  
 Special uses of electric lighting, A-Z -- Continued  
 Dwellings see TK4255  
 4399.E5 Emergency lighting  
 4399.F2 Factories. Workshops  
 4399.F3 Farm buildings  
 4399.F55 Floodlighting  
 4399.H7 Hotels  
 Interior decoration, Lighting as an element in see NK2115.5.L5  
 4399.I7 Iron and steel works  
 4399.M5 Mills  
 4399.O35 Office buildings  
 4399.P44 Pedestrian areas  
 4399.P5 Physical education facilities  
 4399.P6 Power plants  
 4399.P8 Public buildings  
 4399.R4 Recreation areas  
 4399.S4 Searchlights  
 Ships see VM493  
 4399.S5 Show windows  
 4399.S6 Signs  
     Cf. TK4383 Neon lamps and tubes  
 4399.S63 Sports facilities  
 4399.S8 Stores, Retail  
 Streets see TK4188  
 4399.T6 Theaters  
     Cf. PN2091.E4 Electric devices for the stage, and stage lighting  
     Cf. TR891 Lighting for motion pictures  
 (4500) Infrared technology  
     see TA1570  
 Electric heating  
     For rheostats and controllers see TK2851  
 4601 General works  
 4635 Infrared heating  
 Special applications of electric heating  
     Electric space heating see TH7409+  
     Electric cooking stoves see TX657.S5  
     Electric cooking see TX827  
     Thawing of water pipes see TH6685  
 4660 Electric welding  
 4660.5 Electric cutting  
 4661 Electric furnaces  
     Cf. QD157 Inorganic chemistry  
     Cf. QD277 Organic chemistry  
     Cf. TN687 Electric metallurgy  
     Cf. TP841+ Ceramic industries  
 Electric ignition devices for gas lighting in buildings see TH6885+  
 Electric ignition devices for automobiles see TL213  
 Telecommunication  
     Class here general works only. For works on special systems, see the subject  
     Cf. QA268 Coding theory  
 5101.A1 Periodicals, societies, congresses, etc.  
 5101.A3-Z General works  
 Exhibitions  
 5101.5.A1 General works

- Telecommunication
- Exhibitions -- Continued
- 5101.5.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b
- 5102 Dictionaries and encyclopedias
- 5102.2 History
- 5102.3.A-Z By region or country, A-Z
- 5102.4 Juvenile works
- 5102.5 General special
- Biography
- 5102.54 Collective
- 5102.56.A-Z Individual, A-Z
- 5102.6 Telecommunication as a profession
- Study and teaching. Research
- 5102.7 General works
- 5102.8.A-Z By region or country, A-Z
- 5102.83 Mathematical models. Computer simulation
- 5102.84 Quality control
- 5102.85 Security measures
- 5102.86 Sustainable practices. Energy conservation
- 5102.9 Signal processing
- Coding theory
  - For application in special field, see the field
- 5102.92 General works
- 5102.94 Cryptographic techniques
- 5102.96 Error correction
  - Including turbo codes
- 5102.98 Echo suppression
- 5102.985 Traffic
  - For works on traffic in specific systems, see the system, e.g., Computer network management
  - see TK5105.548+
- Apparatus and supplies
- 5103 General works
- 5103.12 Wiring
- 5103.15 Telecommunication lines
- 5103.17 Power supply
- Modems see TK7887.8.M63
- Wireless communication systems. Mobile communication systems
- 5103.2 General works
- 5103.25 5G mobile communication systems
- 5103.256 Backscatter communication
- 5103.26 Bit-interleaved coded modulation
- 5103.3 Bluetooth
- 5103.35 Body area networks
  - Cf. TK5105.7+ Local area networks
- Broadband communication systems
- 5103.4 General works
  - Asynchronous transfer mode see TK5105.35
- 5103.45 Spread spectrum communications
- 5103.4515 Ultra-wideband communication systems
- 5103.452 CDMA
- 5103.48 CDPD (Standard)
- 5103.4815 Cognitive radio networks
- 5103.4817 Frequency division multiple access
  - Including single-carrier frequency division multiple access
- 5103.482 General Packet Radio Service

## Telecommunication

## Wireless communication systems -- Continued

- 5103.483 Global system for mobile communications
- 5103.48323 Indoor positioning systems
- 5103.48325 Long-Term Evolution
- 5103.4833 Microwave communication systems
- 5103.4835 Millimeter wave communication systems
- 5103.4836 MIMO systems
- (5103.4837) Mobile device forensics
  - see HV8079.C65
- 5103.484 Orthogonal frequency division multiplexing
- 5103.485 Personal communication service systems
- 5103.486 TDMA
- 5103.487 Broadcast data systems
- 5103.4873 Radio resource management
- 5103.4874 Roaming
- 5103.4875 Software radio
  - Radio data systems see TK6570.R27
  - Teletext systems see TK6679.7
- 5103.4877 Space time codes
- 5103.488 Trunked radio. TETRA
- 5103.4883 Universal Mobile Telecommunications System
- 5103.4885 Wireless Internet
  - Wireless LANs see TK5105.78
- 5103.4895 Wireless localization
- 5103.5 Information display systems
- 5103.52 Acoustical telecommunication systems
  - Including underwater acoustic telemetry
- Magnetic communication see TK5103.58
- 5103.57 Molecular communication
- 5103.58 Near-field communication. Magnetic communication
- Optical communications
  - General works
  - Special topics, A-Z
    - Fiber optics. Optical fiber communication
    - Free space optics
    - Optical fiber communication see TK5103.592.F52
    - Optical fiber subscriber loops
    - Passive optical networks
    - Quantum communications
    - Wavelength division multiplexing
  - Laser communications systems
    - Cf. TA1671+ Lasers
- Digital communications
  - General works
  - Synchronous data transmission systems see TK5105.4+
- 5103.7 Integrated services digital networks
- 5103.78 Digital subscriber lines
- 5103.8 Switching systems
  - Packet switching see TK5105.3+
- Artificial satellites in telecommunication
  - Cf. HE9719+ Economics
- 5104 General works
  - Special systems and projects, A-Z
    - Advanced Communications Technology Satellite
    - 'Arabsat
- 5104.2.A-Z
- 5104.2.A38
- 5104.2.A72

## Telecommunication

## Artificial satellites in telecommunication

## Special systems and projects, A-Z -- Continued

5104.2.A75 ASTRA  
 5104.2.D5 Dioscures project  
 5104.2.E29 ECS satellites  
 5104.2.H46 Hermes  
 5104.2.I25 INSAT  
 5104.2.O49 Olympus  
 5104.2.P33 PACSAT  
 5104.2.P35 Palapa project  
 5104.2.R4 Relay  
 5104.2.S5 Skynet Project  
 5104.2.T4 Telstar  
 5104.2.V74 VSATs

## Data transmission systems

5105 General works  
 Wireless communication systems see TK5103.2+  
 5105.15 Multimedia communications  
 5105.2 Picture transmission systems. Image transmission  
 Cf. TK5103.75 Integrated services digital networks  
 Cf. TK6505 Video telephone  
 Cf. TK6600 Phototelegraphy  
 Cf. TK6710+ Facsimile transmission

## Packet switching

5105.3 General works  
 5105.35 Asynchronous transfer mode  
 5105.38 Frame relay  
 5105.383 Packet transport networks  
 5105.386 Streaming technology  
 Synchronous transfer systems  
 5105.4 General works  
 5105.415 SONET  
 5105.42 Synchronous digital hierarchy  
 5105.45 TMN

## Computer networks

For application in special field, see the field

5105.5 General works  
 5105.514 Popular works. Juvenile works  
 Computer network architectures  
 5105.52 General works  
 5105.525 Peer-to-peer architecture  
 Apparatus and supplies  
 5105.53 General works  
 5105.543 Bridges. Routers. Gateways  
 5105.5457 Network processors  
 5105.546 Networks on a chip  
 Computer network management  
 5105.548 General works  
 5105.5485 Monitoring  
 Routing  
 5105.5487 General works  
 5105.54873.A-Z Special topics, A-Z  
 5105.54873.A33 Adaptive routing  
 5105.54873.D56 Dimension-ordered routing  
 5105.54873.H54 Hierarchical routing

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   Computer networks  
     Computer network management  
       Routing  
         Special topics, A-Z -- Continued  
 5105.54873.H68       Hot potato routing  
                       Routers see TK5105.543  
 5105.54873.S45       Self-routing  
 5105.54873.W67       Wormhole routing  
   Computer network protocols. Standards  
     General works  
 5105.55             ASN.1  
 5105.553            BGP  
 5105.555            BGP  
 5105.56             CEBus  
 5105.565             CGI  
 5105.5658           Data Plane Development Kit  
 5105.5663           Diameter  
 5105.5665           File Transfer Protocol  
 5105.5667           HTTP  
 5105.5668           IEEE 802.11  
 5105.567            IPSec  
 5105.5675           IS-IS  
 5105.5677           iSCSI  
 5105.568            JXTA  
 5105.572            L2TP  
 5105.5725           LDAP  
 5105.573            MPLS  
 5105.574            Network File System  
 5105.575            Network Time Protocol  
 5105.577            Open Document Architecture  
 5105.578            Open Shortest Path First  
 5105.58             Open Systems Interconnect  
 5105.582             PPP  
 5105.5825           RADIUS  
 5105.5828           Service-oriented architecture  
 5105.583            Simple Network Management Protocol (SNMP)  
 5105.5833           Software-defined networking (SDN)  
 5105.5835           Stream Control Transmission Protocol  
 5105.585            TCP/IP  
 5105.586            TINA  
 5105.5863           WebDAV  
 5105.5864           WHOIS  
 5105.5865           Wireless application protocol (WAP)  
 5105.587            X.500  
 5105.59             Computer network security  
 5105.595            Directory services  
 5105.5956           Quality of service. Reliability  
                       Including network performance  
 5105.597            Remote access  
 5105.6             Telematics  
 5105.65             Location-based services  
 5105.66             Cross-layer designs  
 5105.67             Machine-to-machine communications  
   Local area networks  
     General works  
 5105.7             Ring networks  
 5105.72

## Telecommunication

## Computer networks

## Local area networks -- Continued

## Electronic mail systems

Including systems that also connect outside the local network and instant messaging systems

Cf. HE7551+ Postal service

5105.73

General works

5105.74.A-Z

Special programs, A-Z

5105.74.C57

Cisco IronPort

5105.74.E57

Entourage

5105.74.G55

Gmail

5105.74.J32

Jabber

5105.74.P66

Postfix

5105.74.P76

Procmail

5105.74.Q43

Qmail

5105.74.S44

Sendmail

5105.743

Spam filtering

5105.75

Home computer networks

Including amateurs' manuals

5105.76

Personal area networks

5105.77

Ad hoc networks

5105.775

FiWi access networks

5105.78

Wireless LANs

5105.8.A-Z

Special systems, A-Z

5105.8.A77

AppleTalk

Banyan VINES see TK5105.8.V56

5105.8.B57

BLEND

5105.8.C57

Cisco

5105.8.E25

Econet

5105.8.E83

Ethernet

5105.8.I24

IBM Token-Ring Network

5105.8.I44

ILLINET

5105.8.J84

Juniper

5105.8.L34

LAN Server

5105.8.N63

Nortel

5105.8.N65

Novell Netware networks

5105.8.S65

SNA

5105.8.T65

TOPS

5105.8.V56

VINES

5105.83

Electronic villages

5105.84

Value-added networks

5105.85

Metropolitan area networks

5105.86

Storage area networks

Wide area networks

5105.87

General works

5105.875.A-Z

Special networks and systems, A-Z

5105.875.A77

ARPANET

5105.875.B57

BITNET

5105.875.C45

CGNET

5105.875.D37

DDN

5105.875.E87

Extranets

5105.875.F55

Florida Information Resource Network

5105.875.I57

Internet

5105.875.I6

Intranets

5105.875.N37

National Research and Education Network

5105.875.S58

Sistema Nacional e-México

## Telecommunication

## Computer networks

## Wide area networks

## Special networks and systems, A-Z -- Continued

5105.875.S95

SURAnet

5105.875.S97

Switched multi-megabit data service

5105.875.U83

Usenet

## Specific aspects of, or services on, the Internet

General works see TK5105.875.I57

5105.878

Moral and ethical aspects

## Browsers

5105.882

General works

5105.883.A-Z

Special, A-Z

(5105.883.C66)

Communicator (Netscape)

see TK5105.883.N49

5105.883.F55

Firefox

5105.883.G66

Google Chrome

5105.883.M53

Microsoft Internet Explorer

5105.883.N43

NetCruiser

5105.883.N48

Netscape. Netscape Navigator

5105.883.N49

Netscape Communicator

5105.883.N493

Netscape SuiteSpot

5105.883.O65

Opera

(5105.883.S85)

SuiteSpot (Netscape)

see TK5105.883.N493

5105.8835

Domain names

## Search engines

Class here works on the engineering and technology of search engines

For works on using search engines, browsers, and other user interfaces to retrieve information see ZA4230+

5105.884

General works

5105.885.A-Z

Special, A-Z

5105.885.A45

AltaVista

5105.885.G66

Google

5105.885.N68

Novell E-guide

5105.885.O37

OASIS

5105.885.O53

OMEGA

5105.885.R34

RaiNews24

5105.885.W42

WebCompass

5105.885.Y34

Yahoo!

Electronic mail systems see TK5105.73+

Internet games see GV1469.15+

5105.8854

Internet governance

5105.8855

Internet access. Internet access control

Cf. QA76.9.A25 Access control. Computer security

5105.8857

Internet of things

5105.886

Internet Relay Chat

5105.8863

Computer sound processing

5105.8865

Internet telephony

Internet videos

Cf. PN1992.922+ Production and direction

5105.8867

General works

5105.8868.A-Z

Special, A-Z

5105.8868.Y68

YouTube

5105.887

Webcasting. Push technology

Cf. PN1992.922+ Production and direction

- Telecommunication
  - Computer networks
    - Wide area networks
      - Specific aspects of, or services on, the Internet -- Continued
        - World Wide Web
          - Including general works on web site design and development
          - 5105.888 General works
          - 5105.88813 Web services
          - 5105.88815 Semantic Web
          - 5105.88817 Web 2.0
          - 5105.8882 Wikis
          - Web authoring software
            - Including Web server software
            - For HTML see QA76.76.H94
            - For specific programs see TK5105.8885.A+
          - 5105.8883 General works
          - 5105.8884 Weblog software
          - 5105.8885.A-Z Special, A-Z
            - 5105.8885.A26 Active server pages
            - 5105.8885.A28 ActiveX
            - 5105.8885.A34 Adobe GoLive
            - 5105.8885.A35 Adobe InDesign
            - 5105.8885.A355 Adobe Muse
            - 5105.8885.A36 Adobe PageMill
            - 5105.8885.A38 Adobe Photoshop
            - 5105.8885.A52 Ajax
            - 5105.8885.A63 Apache
            - 5105.8885.B4 BEA Weblogic
            - 5105.8885.B66 Bootstrap
            - 5105.8885.C55 Claris Home page
            - 5105.8885.C58 Community server
            - (5105.8885.C66) Composer (Netscape)
              - see TK5105.8885.N49
            - 5105.8885.D54 Django
            - 5105.8885.D68 DotNetNuke
            - 5105.8885.D74 Dreamweaver
            - 5105.8885.D78 Drupal
            - 5105.8885.F55 Fireworks
            - 5105.8885.F59 Flash
            - (5105.8885.F76) FrontPage (Microsoft)
              - see TK5105.8885.M53
            - 5105.8885.F87 FutureTense Texture
            - 5105.8885.G64 GoLive CyberStudio
            - 5105.8885.H65 HomeSite
            - 5105.8885.J34 Jakarta Tomcat
            - 5105.8885.J38 JavaServer pages
            - 5105.8885.J42 JBoss
            - 5105.8885.J86 Joomla
            - (5105.8885.L58) LiveConnect (Netscape)
              - see TK5105.8885.N5
            - 5105.8885.L67 Lotus Domino
            - 5105.8885.M32 Macromedia Generator
            - 5105.8885.M37 Macromedia sitespring
            - 5105.8885.M38 Macromedia Studio MX
            - 5105.8885.M39 Markdown
              - Including R Markdown



## Telecommunication

## Computer networks

## Wide area networks

## Specific aspects of, or services on, the Internet

## World Wide Web

## Web authoring software

## Special, A-Z -- Continued

- 5105.8885.M52 Microsoft content management server
- 5105.8885.M525 Microsoft Expression Web
- 5105.8885.M53 Microsoft FrontPage
- 5105.8885.M54 Microsoft Office. Microsoft Office professional
- 5105.8885.M543 Microsoft SharePoint
- 5105.8885.M545 Microsoft TV
- 5105.8885.M55 Microsoft Visual InterDev
- 5105.8885.M57 Microsoft Visual studio
- 5105.8885.M59 Microsoft Word
- 5105.8885.M67 Movable Type
- 5105.8885.N34 Namo wep edit'õ
- 5105.8885.N48 NetObjects Fusion
- 5105.8885.N49 Netscape Composer
- 5105.8885.N5 Netscape LiveConnect
- 5105.8885.N54 NGINX
- 5105.8885.N62 Novell Net publisher
- 5105.8885.O63 Opa
- 5105.8885.O7 Oracle Portal
- 5105.8885.O75 Oracle WebLogic server
- (5105.8885.P34) PageMill
  - see TK5105.8885.A36
- R Markdown see TK5105.8885.M39
- 5105.8885.R46 Resin
- 5105.8885.R83 Ruby on Rails
- 5105.8885.S24 SAP NetWeaver
- 5105.8885.S25 SAS
- 5105.8885.S56 Shockwave
- 5105.8885.S76 Struts framework
- (5105.8885.T49) FutureTense Texture
  - see TK5105.8885.F87
- 5105.8885.T54 TK toolkit
- 5105.8885.T85 Tumblr
- (5105.8885.V58) Visual InterDev (Microsoft)
  - see TK5105.8885.M55
- 5105.8885.W36 Water
- 5105.8885.W42 Web component
- WebLogic server (Oracle) see TK5105.8885.O75
- 5105.8885.W43 WebSphere
- 5105.8885.W65 WordPerfect
- 5105.8885.W66 WordPress
- 5105.8885.Z65 Zope
- 5105.8887 WebTV (Trademark)
- 5105.9 Communications software

## Telegraph

Including works on the telegraph and telephone

Cf. TK5601+ Submarine telegraph

Cf. TK5700+ Radiotelegraph

Cf. TK9941+ Construction for amateurs

Cf. UG600+ Military telegraph

- Telegraph -- Continued
- 5107 Periodicals, societies, etc.  
Exhibitions
- 5107.5.A1 General works  
5107.5.A2-Z By region or country, A-Z  
Subarrange each country by Table T4b
- 5108 Collected works (nonserial)
- 5110 Dictionaries and encyclopedias  
History
- 5115 General works  
Claims of inventors
- 5117 General works
- 5118.A-Z Special. By name, A-Z
- 5118.B2 Claims of Bain
- 5118.C7 Claims of Cooke
- 5118.H5 Claims of Henry
- 5118.M7 Claims of Morse
- 5121-5227 Country divisions (Table T1a)  
Add country number in table to TK5100  
For technical reports of telegraph companies see TK5287.A+
- Biography
- 5241 Collective  
5243.A-Z Individual, A-Z
- Study and teaching
- 5250 General works  
Special schools
- 5255 United States  
5257.A-Z Other countries, A-Z
- 5261 Comprehensive treatises
- 5262 Elementary textbooks
- 5263 Telegraphers' manuals
- 5264 Beginners' primers
- 5265 Popular works  
Cf. TK9941+ Construction for amateurs
- 5266 Pocketbooks, tables, etc.
- 5269 General special
- 5275 Theory of telegraphy
- 5281 Specifications (General)  
Management of telegraph enterprises  
Cf. HE7661 Business administration of telegraph companies  
Cf. TK5381 Management of telegraph stations
- 5283 General works  
Office organization
- 5285 General works
- 5286 Records. Correspondence
- 5287.A-Z Technical reports of telegraph companies. By company, A-Z  
For financial and other non-technical reports see HE7761+
- 5295 Catalogs of telegraph apparatus and supplies (General)  
Telegraph plants. Stations. The line
- 5301 General works  
Stations
- 5311 General works  
Central telegraph stations
- 5321 General works
- 5328.A-Z Special. By country, A-Z
- 5341 Branch stations

## Telegraph

Telegraph plants. Stations. The line

Stations -- Continued

5371 Power production and special machinery

5378 Electric cells

5381 Management of telegraph stations (Technical)

For telegraphers' manuals see TK5263

Cf. TK5283+ Management of telegraph enterprises

5385 Testing of telegraph apparatus, lines and material

Cf. TK5445 Inspectors' manuals

Distribution. Construction. Connections

Including works on telegraph and telephone lines

5401 General works

Wiring of telegraph circuits

Cf. TK6341+ Wiring of telephone circuits

5441 General works

5445 Telegraph wiremen's manuals. Inspectors' manuals. Diagrams of connections, etc.

Cf. TK5266 Pocketbooks and tables for telegraph engineers

The line

Cf. TK6351+ Telephone lines

5451 General works

Overhead lines

5452 General works

5454 Line material (General)

5455 Details

Including poles and crossarms, guys and braces

Underground lines

5465 General works

5467 Conduit material (General)

5468 Details

Cables see TK5481

5481 Telegraph wires and cables

For submarine cables see TK5671

5491 Switchboards and accessories (for line connections)

For switchboards for electric power in telegraph see TK5371

Systems and instruments for telegraphing

For systems and instruments for making connections see TK5491

5501 General works

5509 General special. Telegraph alphabets

(5511) Early to 1830

Claims of inventors, see TK5117+

5515 Optic systems. Dial telegraphs. Non-automatic electrolytic telegraphs

Acoustic systems and instruments

5521 General works

5522 General special. Buzzer systems

5523 Simplex. Ordinary. High speed

5531 Duplex (two messages simultaneously, in opposite directions)

5535 Quadruplex or synchronous (four messages simultaneously, in two directions)

5538 Multiplex (more than four messages simultaneously)

Automatic transmitting and receiving systems and instruments

5541 General works

5543 Printing

Class here letters or characters printed directly

5545 Writing. Autographic

5546 Ink impression or inking receiving systems and instruments

## Telegraph

## Systems and instruments for telegraphing

## Automatic transmitting and receiving systems and instruments -- Continued

5547 Perforating transmitting systems and instruments. Perforated paper-fillet in transmitter and ink impression in receiver. Synchronographs

5549 Chemical (Electrochemical. Photochemical)  
Cf. TK6600 Picture telegraph

5550 Induction systems

5569.A-Z Telegraph systems. By application, A-Z

5569.T7 Train telegraph systems  
Cf. TK5550 Induction systems

## Instruments (General)

Class special instruments with the system above

5571 General works

5575 Keys

## Sounders and relays

5581 General works

5585 Relays

## Submarine telegraph

5601 Periodicals, societies, etc.

## History

5605 General works

5607.A-Z By region or country, A-Z

## Geographical subdivisions

5609 General works

5611 Atlantic submarine telegraph

Including life and works of C.W. Field

5613 Pacific submarine telegraph

5615 Indian Ocean submarine telegraph

5621 Comprehensive treatises

5622 Elementary textbooks

5625 Popular works

5626 Pocketbooks, tables, etc.

5627 General special

5641 Stations. Construction. Component parts, etc.

## Cables and cable laying

5661 General works

## Cable laying and repairing

5662 General works

5671 The cable

Cf. TK5481 Telegraph cables (General)

5681 Systems and instruments

## Radiotelegraph. Wireless telegraph

Cf. HE8660+ Economics

Cf. HJ6645+ Coast Guard service (U.S.)

Cf. TK6540+ Wireless telephone

Cf. UG610+ Military wireless telegraph

Cf. VG76+ Naval wireless telegraph

5700 Periodicals, societies, etc.

5707 Collected works (nonserial)

5709 Dictionaries and encyclopedias

Directories of wireless stations see HE8663+

5711 History

## Special countries

United States

5718 General works

## Telegraph

## Radiotelegraph. Wireless telegraph

## Special countries

United States -- Continued

5719.A-.W

States, A-W

5720

Canada

5721

Latin America

5721.5

West Indies

South America

5722.A1

General works

5722.A2-Z

By region or country, A-Z

Europe

5723.A1

General works

5723.A2-Z

By region or country, A-Z

Asia

5724.A1

General works

5724.A2-Z

By region or country, A-Z

Africa

5725.A1

General works

5725.A2-Z

By region or country, A-Z

5726

Australia

5726.5

New Zealand

5727

Pacific Islands

5728

Arctic regions

## Biography

5733

Collective

5739.A-Z

Individual, A-Z

## Study and teaching. Schools

5740

General works

5740.5

Laboratory manuals

5741

Comprehensive treatises

5742

Elementary textbooks

5743

Operators' manuals

5745

Popular works

For amateurs' manuals for construction see TK9946

5746

Pocketbooks, tables, etc.

5747

General special

5751

Theory

5755

Patents

5771

Stations for radiotelegraph

## Special applications

5773

General works. Position finding, etc.

(5775)

Aeronautical

see TL693+

5777

General special

## Systems and instruments for radiotelegraph

For general works, see TK5741+

5811

Special systems

Instruments

5861

General works

5863

Coherers

5865

Other special

## Electroacoustics. Electroacoustic transducers

5981

General works

5981.5

Active noise and vibration control

5981.55

Acoustic surface wave devices

- Electroacoustics. Electroacoustic transducers -- Continued
- 5982 Ultrasonic transducers
- 5983 Loudspeakers
- 5983.5 Headphones
- 5984 Magnetic tape and magnetic tape heads  
For data tapes see TK7895.D3
- 5986 Microphones  
Cf. TK6478 Telephone transmitters
- 5987 Hydrophones  
Recorders and recording (Magnetic) see TK7881.6+  
Sound systems (General) see TK7881.4+
- 5990 Sirens
- Telephone  
For telecommunications devices for the deaf see HV2502.5  
For systems and standards used in wireless communication, including wireless telephone systems  
see TK5103.2+  
For Internet telephony see TK5105.8865  
For telephone plants see TK6201+  
For telephone systems and instruments see TK6401+  
For mobile communication systems see TK6570.M6  
For military telephone systems see UG620.A+
- 6001 Periodicals, societies, etc.
- 6005 Congresses. Conventions  
Exhibitions. Museums
- 6005.5.A1 General works
- 6005.5.A2-Z By region or country, A-Z  
Subarrange each country by Table T4b
- 6006 Collected works (nonserial)
- 6007 Dictionaries and encyclopedias
- 6011 Directories of the telephone industry  
History
- 6015 General works  
Claims of inventors
- 6017 General works
- 6018.A-Z Special. By name, A-Z  
e.g.
- 6018.B4 Claims of Bell
- 6018.P6 Claims of Pickering
- 6018.S8 Claims of Strong
- 6021-6127 Special countries (Table T1a)  
Add country number in table to TK6000  
For technical reports of telephone companies see TK6187.A+
- Biography
- 6141 Collective
- 6143.A-Z Individual, A-Z
- Study and teaching
- 6150 General works  
Special schools
- 6155 United States
- 6157.A-Z Other countries, A-Z
- 6161 Comprehensive treatises
- 6162 Elementary textbooks
- 6163 Operators' manuals  
Cf. TK6345 Telephone wiremen's manuals
- 6164 Beginners' primers

- Telephone -- Continued
- 6165 Popular works. Juvenile works  
Cf. TK9951 Amateurs' manuals for construction
- 6167 Pocketbooks, tables, etc.
- 6168 Examinations, questions, etc.
- 6169 General special  
Including rural telephones, estimates
- 6175 Theory of the telephone
- 6181 Specifications (General)  
Management of telephone enterprises  
Cf. HE8761+ Business administration of telephone companies  
Cf. TK6281 Management of telephone stations
- 6183 General works  
Office organization
- 6185 General works
- 6186 Records, correspondence, etc.
- 6187.A-Z Technical reports of telephone companies. By company, A-Z  
For financial and other non-technical reports see HE8800+
- 6188 General special
- 6195 Catalogs of telephone apparatus and supplies (General)  
Telephone plants. Stations. The line
- 6201 General works  
Stations. Central telephone stations. Exchanges
- 6211 General works
- 6241 Substations  
Power production and special machinery  
For central stations (General) see TK1191+
- 6271 General works
- 6278 Batteries
- 6281 Management of telephone stations  
Cf. TK6183+ Management of telephone enterprises
- 6285 Testing of telephone apparatus, line and material  
Distribution. Construction. Connections
- 6301 General works  
Wiring of telephone circuits
- 6341 General works
- 6343 General special  
Including phantom circuits
- 6345 Telephone wiremen's manuals. Inspectors' manuals  
Cf. TK3205 Wiring manuals for electricians  
Cf. TK5445 Telegraph wiremen's manuals  
Cf. TK6163 Telephone operators' manuals
- The line  
Cf. TK5103.78 Digital subscriber lines  
Cf. TK5451+ Telegraph (The line)
- 6351 General works
- 6352 Overhead or aerial lines  
For telegraph overhead lines see TK5452+
- 6365 Underground lines  
Submarine telephone cables  
History
- 6370 General works
- 6372.A-Z By region or country, A-Z  
Geographical subdivisions
- 6373 Atlantic Ocean
- 6375 Pacific Ocean

## Telephone

Distribution. Construction. Connections

The line

Submarine telephone cables -- Continued

6377

Treatises

6379

Popular works. Juvenile works

Telephone wires and cables

For telegraph wires and cables see TK5481

6381

General works

6383

Wiretapping

Switchboards and accessories for line connections

For switchboards for electric power for telephones see TK6271+

6391

General works

6392

General special

Systems for making connections

6394

Manual systems

6397

Automatic systems

Systems and instruments for transmitting sound

For systems and instruments for making electric connections see TK6391+

6401

General works

6418

Catalogs of instruments

Cf. TK6195 Catalogs of apparatus and supplies

Special systems and instruments

Cf. TK6394+ Systems for making connections

6421

General works

6425

Multiplex systems

6430

Centrex systems and services

Instruments

6471

General works

6473

Technique of telephone instruments

Transmitters

6475

General works

6478

Microphones

6481

Receivers

6500

Telegraphones. Telephonographs. Recording telephones. Dictographs. Mechanical telephones

6505

Video telephones

6525

Simultaneous telegraph and telephone

## Radio

Including wireless telephone

Cf. QC660.5+ Electric waves

6540

Periodicals, societies, etc.

6541

Congresses

(6542)

Yearbooks

see TK6540

6543

Collected works (nonserial)

6544

Dictionaries and encyclopedias

Biography

6545.A1

Collective

6545.A2-Z

Individual, A-Z

6547

History

6548.A-Z

By region or country, A-Z

6550

General works

Cf. TK9956+ Amateur construction

6550.7

Popular works. Juvenile works

6550.8

Laboratory manuals



- Radio -- Continued
- 6552 Tables, calculations, etc.
- 6552.5 Radio measurements
- 6553 General special  
Including testing, standards, repairing, safety, two-way radio (Radiotelephone), etc.
- 6553.5 Addresses, essays, lectures  
Study and teaching. Research
- 6554 General works
- 6554.5 Examinations, questions, etc.
- 6555 Directories of radio stations  
Cf. TL695.5 Aircraft stations
- 6557 Trade directories  
Radio stations  
Cf. TH4655 Construction of radio station structures
- 6557.5 General works
- 6558.A-Z Special radio stations. By place, A-Z  
e.g.  
Pittsburgh, KDKA
- 6558.P5
- 6559 Patents  
Apparatus
- 6560.A1-Z4 General works  
Prefer TK6561+
- 6560.Z5 Trade publications
- 6561 Sending apparatus. Transmitters
- 6562.A-Z Special, A-Z
- 6562.D54 Digital audio broadcasting
- 6562.F2 FM broadcasting
- 6562.P32 Packet transmission
- 6562.S28 Satellite radio
- 6562.S5 Shortwave transmission
- 6562.S54 Single-sideband transmission
- 6562.S7 Stereophonic broadcasting
- 6562.W5 Wire broadcasting
- Radio receiving apparatus  
Including catalogs
- 6563 General works
- 6563.2 Collectors and collecting
- 6564.A-Z Special, A-Z
- 6564.C79 Crystal sets
- 6564.F7 Frequency modulation radios
- 6564.M64 Monitoring receivers
- 6564.P35 Panoramic receivers
- 6564.P6 Portable radios
- 6564.S5 Shortwave radios
- 6564.T7 Transistor radios
- Radio transmitter-receivers  
Class here works on the electronic engineering of radio transmitter-receivers and works on their use unless otherwise provided for in the field of application  
For specific makes of smartphones see QA76.8.A+  
For walkie-talkies see TK6565.W25
- 6564.3 General works
- 6564.4 Special devices, A-Z
- 6564.4.C45 Cell phones  
For specific makes of smartphones see QA76.8.A+
- 6565.A-Z Other radio apparatus, A-Z
- 6565.A55 Amplifiers

## Radio

## Apparatus

Other radio apparatus, A-Z -- Continued

- 6565.A6 Antennas
  - For special types see TK7871.67.A+
- 6565.A8 Attenuators
- 6565.C3 Cathode ray tubes
- 6565.C6 Coils
- 6565.C65 Condensers
- 6565.D4 Detectors
- 6565.D5 Direction finders
- (6565.E6) Electron tubes
  - see TK6565.V3
- 6565.F5 Filters
- 6565.F7 Frequency changers
- Loudspeakers see TK5983
- 6565.M35 Mains supply
- Microphones see TK5986
- 6565.O7 Oscillators
- 6565.P3 Panels
- 6565.R32 Radio and television towers
- Receivers see TK6563+
- 6565.R4 Recording apparatus
- 6565.R42 Rectifiers
- 6565.R426 Resistors
- 6565.R43 Resonators
- 6565.S9 Switchgear
- Television and radio towers see TK6565.R32
- 6565.T7 Transformers
- 6565.T73 Transmission lines
- 6565.V3 Vacuum tubes. Electron tubes
- 6565.V6 Voltage regulators
- 6565.W25 Walkie-talkies
- 6565.W3 Waveguides
- 6570.A-Z Special applications of radio, A-Z
  - Aircraft see TL692+
  - 6570.A8 Automobiles
  - (6570.B7) Broadcasting
    - see PN1991+
  - 6570.C5 Citizens band radio
  - 6570.C6 Radio control
  - 6570.I34 Identification. Radio frequency identification systems
  - Military radio systems see UG610+
  - (6570.M6) Mobile communication systems
    - see TK5103.2+
    - For systems and standards used in wireless communications see TK5103.2+
  - Naval radio systems see VG76+
  - (6570.N43) Near field communication
    - see TK5103.58
  - 6570.P5 Pipelines
  - 6570.P6 Police
  - 6570.P8 Public safety radio service
  - 6570.R27 Radio data systems
  - Radio frequency identification systems see TK6570.I34
  - 6570.R3 Railroads
  - 6570.T76 Tropospheric scatter communication systems

## Radio

## Telecommunication

Wireless communication systems see TK5103.2+

## Extraterrestrial radio communication

For radio in astronautics see TL3035

6571

General works

6571.5.A-Z

Special celestial bodies, A-Z

6571.5.M6

Moon

## Radar

6573

Periodicals, societies, congresses, etc.

6574

Dictionaries and encyclopedias

6574.2

History

6574.4.A-Z

By region or country, A-Z

6575

General works

6576

Popular works. Juvenile works

6578

Tables, calculations, etc.

6580

General special

6582

Computer coordination of multiple radar systems

## Apparatus

6585

General works

6587

Transmitting apparatus

Including transmitter-receiver units

6588

Receiving apparatus

6590.A-Z

Other apparatus, A-Z

6590.A5

Amplifiers

6590.A6

Antennas

6590.C3

Cathode ray tubes

6590.I5

Indicators

6590.M5

Microwave lenses

6590.O67

Optical equipment

6590.O7

Oscillators

6590.R3

Radomes

6590.R4

Resonators

6590.S4

Servomechanisms

6590.T72

Transmit-receive tubes

6590.V6

Voltage regulators

6590.W3

Waveguides

6592.A-Z

Special types, A-Z

6592.A9

Automatic tracking

6592.B57

Bistatic radar

6592.C6

Coherent radar

6592.C65

Continuous wave radar

6592.D6

Doppler

6592.G7

Ground penetrating radar

6592.L67

Low probability of intercept radar

6592.M6

Monopulse

6592.M67

Moving target indicator radar

6592.O6

Optical radar

6592.O94

Over-the-horizon

6592.P85

Pulse compression radar

6592.S4

Search radar

6592.S95

Synthetic aperture radar

6592.T48

Through-the-wall imaging

6592.U48

Ultra-wideband radar

6595.A-Z

Special applications of radar, A-Z

To be classified here unless provided for elsewhere

- Radar
  - Special applications of radar, A-Z -- Continued
  - Aeronautics see TL692+
- 6595.G4 Geodesy
- Military science see UG610+
- Naval science see VG76+
- Navigation see VK560+
- Oceanographic research ships see VM453
- Radar on ships see VM480+
- 6600 Phototelegraphy. Picture telegraphy
  - Including radio photographs
  - Cf. TK6710+ Facsimile transmissions
- Television
  - Cf. GV1469.3+ Video games
  - Cf. PN1992+ Television broadcasts
- 6630.A1 Periodicals, societies, etc.
- 6630.A2-Z General works
- 6634 Dictionaries and encyclopedias
- Biography
  - Collective
  - Individual, A-Z
- 6635.A1 History
- 6635.A2-Z By region or country, A-Z
- 6637 Popular works. Juvenile works
- 6638.A-Z Cf. TK9960+ Television for amateurs
- 6640 Laboratory manuals
- 6641 Handbooks, manuals, etc.
- 6642 General special
- 6643 Television as a profession
- 6644 Directories of television stations
- 6645 Television stations
  - Cf. TH4656 Construction of television station structures
- 6646 Television relay systems
  - General works
- 6648 Special systems and projects, A-Z
- 6649.A-Z Apparatus
  - Cf. TK5105.8887 WebTV (Trademark)
- 6650 General works
- 6651 Transmitting apparatus
- 6653 Receiving apparatus
- 6655.A-Z Other, A-Z
  - Amplifiers
  - Antennas
  - Camera tubes
  - Cathode ray tubes see TK6655.P5
  - Channel selectors
  - Deflection systems
  - Digital video recorders
    - Cf. TK6655.V5 Video tape recorders
  - Electronic cameras see TR882+
- 6655.O7 Oscillators
- 6655.P5 Picture tubes
- 6655.T7 Transformers
- 6655.T8 Tuners
- 6655.U6 Ultrahigh frequency apparatus (General)

- Television
  - Apparatus
    - Other, A-Z -- Continued
    - 6655.V5 Video tape recorders
      - Cf. TK6655.D54 Digital video recorders
      - Cf. TR845+ Cinematography. Motion pictures. Video recording
      - Cf. TR882.3 Camcorders
    - 6658 3-D television
    - 6670 Color television
    - 6675 Community antenna television
    - 6676 Master antenna television
    - 6677 Direct broadcast satellite television
    - 6678 Digital television
    - Mobile television
      - 6678.3 General works
      - 6678.5.A-Z Special systems, standards, formats, A-Z
      - 6678.5.C56 CMMB
      - 6678.5.D84 DVB-H
      - 6679 High definition television
      - 6679.3 Interactive television
      - 6679.5 Underwater television
      - 6679.7 Teletext systems
      - 6680 Closed-circuit television
      - 6680.3 Video surveillance
        - Cf. HV7936.T4 Police work
      - Video telephones see TK6505
    - Digital video
      - Class here general works on using microcomputer technology to digitize moving images for inclusion in computer programs, including equipment and standards
      - For works on using digital video technology in cinematography see TR860
      - 6680.5 General works
      - 6680.8.A-Z Special systems, standards, software, A-Z
        - 6680.8.A15 3-D video
        - 6680.8.A66 Apple TV
        - 6680.8.M74 MPEG
        - 6680.8.M93 MyDVD
        - 6680.8.R67 Roxio Easy media creator
        - Three-dimensional video see TK6680.8.A15
      - Multimedia computer systems see QA76.575
    - 6681 Video game equipment
      - Cf. GV1469.3+ Video games
      - Cf. TK9971 Amateur constructors' manuals
    - (6683) Underwater television
      - see TK6679.5
    - 6685 Video discs and video disc equipment
    - 6687 Interactive video
      - Cf. LB1028.75 Education
  - Facsimile transmission
    - 6710 General works
    - 6720 Ultrafax
      - For electric space heating see TH7409+
  - Installation of household appliances
    - 7018 Treatises
      - Cf. TK9900+ Amateur constructors' manuals
    - 7019 Popular works
    - 7028 Catalogs

## Installation of household appliances -- Continued

## Electric bells and buzzers

For buzzer systems in telegraphy see TK5522

7108

General works

7109

Popular works

7118

Catalogs of electric bells

## Electric annunciators and alarms

Cf. TH9739 Security in buildings

7201

General works

7221

Annunciators

Alarms

7241

General works

(7251)

Burglar alarms

see TH9739

(7271)

Fire alarms

see TH9271

(7291)

Electric ignition of gas

see TH6885

(7301)

Electric clocks

see TS544

## Miscellaneous electrical industries

(7611)

Electric train signaling

see TF615+

Train telegraph systems see TK5569.T7

7725

Manufacture of electrodes, carbons, etc.

For use of carbons for arc lamps see TK4335

## Electronics

Cf. TK6540+ Radio

Cf. TK6573+ Radar

Cf. TK6630+ Television

7800

Periodicals. Societies. Serials

7801

Congresses. Conventions

Exhibitions

7802.A1

General works

7802.A2-Z

By region or country, A-Z

Subarrange each country by Table T4b

7803

Collected works (nonserial)

7804

Dictionaries and encyclopedias

7805

Directories

Biography

7806

Collective

7807.A-Z

Individual, A-Z

7809

History

By region or country

7811

United States

7812.A-Z

Other regions or countries, A-Z

7815

Treatises

7816

Elementary textbooks

7817

Outlines, syllabi, etc.

7818

Laboratory manuals

7819

Popular works

7820

Juvenile works

7825

Handbooks, pocketbooks, tables, etc.

7828

Addresses, essays, lectures

7835

General special

7836

Electronic plants and equipment. Manufacture of electronic components and apparatus

- Electronics -- Continued
- 7845 Electronics as a profession
- Patents
- 7850.A1 Periodicals, societies, etc.
- 7850.A2-Z General works
- 7855 Research
- Study and teaching
- 7860 General works
- 7862 Problems, exercises, etc.
- 7863 Examinations, questions, etc.
- 7864 Mathematics
- 7866 Drawing. Diagrams, etc.
- Electronic circuits (General)
  - For circuitry of special apparatus and components, see TK7871.2+ TK7871.2, Circuitry of amplifiers
- 7867 General works
- 7867.2 Electromagnetic interference and compatibility
- 7867.5 Noise
- 7867.8 Shielding
- 7868.A-Z Special circuits (General)
  - 7868.A79 Asynchronous
  - 7868.B7 Bridge
  - 7868.D5 Digital
  - Integrated circuits see TK7874+
  - Interface circuits
  - 7868.L6 Logic circuits
  - Microwave circuits see TK7876+
  - 7868.M64 Molded interconnect devices
  - 7868.P6 Power supply
  - 7868.P7 Printed circuits
  - 7868.P8 Pulse
  - 7868.S88 Switched capacitor circuits
  - 7868.S9 Switching
  - 7868.T5 Timing
  - 7868.T7 Trigger
- Apparatus and materials
- 7869 Periodicals, societies, etc.
- 7870 General works
- Electronic packaging
  - 7870.15 General works
  - 7870.16 Ball grid array technology
  - 7870.17 Chip scale packaging
- 7870.2 Maintenance and repair. Electronic troubleshooting
- 7870.23 Reliability. Failures
  - Cf. TK7871.852 Semiconductor failures
- Environmental engineering. Operating environment
  - 7870.24 General works
  - 7870.25 Cooling. Thermal properties
  - 7870.27 Contamination and decontamination
  - 7870.28 Corrosion
  - 7870.285 Effect of radiation on
- 7870.3 Catalogs
- Materials (General)
  - 7871 General works
  - 7871.15.A-Z Special, A-Z
  - 7871.15.B47 Berlinite crystals

## Electronics

## Apparatus and materials

## Materials (General)

## Special, A-Z -- Continued

7871.15.C33 Cadmium alloys  
 7871.15.C35 Carbon  
 7871.15.C4 Ceramic materials  
 7871.15.D53 Diamonds  
 7871.15.F4 Ferrites  
 7871.15.F5 Films  
 7871.15.G3 Gallium arsenide  
 7871.15.G33 Gallium nitride  
 7871.15.G5 Glass  
 7871.15.I52 Indium arsenide  
 7871.15.I53 Indium phosphide  
 7871.15.M3 Magnetic materials  
 7871.15.M48 Metamaterials  
 7871.15.N53 Nickel alloys  
 7871.15.N57 Nitrides  
 7871.15.O7 Organometallic compounds  
 7871.15.P4 Phosphors  
 7871.15.P5 Plastic materials  
 7871.15.P6 Polymers  
 7871.15.P65 Potting compounds  
 7871.15.Q3 Quartz  
 7871.15.S54 Silicides  
 7871.15.S55 Silicon  
 7871.15.S558 Silicon nitride  
 7871.15.S56 Silicon organic compounds  
 7871.15.S77 Strontium compounds  
 7871.15.T56 Titanium  
 7871.15.T85 Tungsten  
 7871.15.Z56 Zinc

## Amplifiers

7871.2 General works  
 Including vacuum-tube and transistor amplifiers  
 7871.22 Dielectric  
 7871.23 Magnetic  
 Cf. TK2851 Electric controllers  
 7871.24 Parametric  
 Rotating see TK2699  
 (7871.3-.37) Lasers  
 see TA1671+  
 (7871.33) Chemical lasers  
 see TA1690  
 (7871.35) Gas lasers  
 see TA1695  
 (7871.37) Solid-state lasers  
 see TA1705  
 7871.4 Masers  
 Cf. TA1671+ Lasers  
 7871.58.A-Z Other, A-Z  
 7871.58.A9 Audio  
 7871.58.B74 Broadband  
 7871.58.C75 Crossed-field  
 7871.58.D46 Differential



## Electronics

## Apparatus and materials

## Amplifiers

## Other, A-Z -- Continued

7871.58.D5 Direct current  
 7871.58.D54 Distributed  
 7871.58.F4 Feedback  
 7871.58.L57 Lock-in  
 7871.58.L6 Logarithmic  
 7871.58.O6 Operational  
 7871.58.P6 Power  
 7871.58.P8 Pulse  
 7871.58.T8 Tuned  
 7871.58.V5 Video amplifiers

## Antennas and waveguides

7871.6

## Antennas

Cf. TK6565.A6 Radio  
 Cf. TK6590.A6 Radar  
 Cf. TK6655.A6 Television

7871.65

## Waveguides

7871.67.A-Z  
 7871.67.A33  
 7871.67.A77

## Special, A-Z

## Adaptive antennas

## Arrays

Circularly polarized antennas see TK7871.67.S65

7871.67.C95  
 7871.67.D56  
 7871.67.H54  
 7871.67.L45  
 7871.67.M5  
 7871.67.M53  
 7871.67.M66

## Cylindrical antennas

## Dipole antennas

## High altitude platform systems

## Lens antennas

## Microstrip antennas

## Microwave antennas

## Monopole antennas

## Optical antennas see TK8360.O65

7871.67.S65

## Spiral antennas

Including circularly polarized antennas

7871.67.S83

## Substrate integrated waveguides

7871.67.U45

## Ultra-wideband antennas

(7871.674)

## Detectors. Sensors

see TK7872.D48

7871.676

## Intelligent sensors

## Electroluminescent devices

7871.68

## General works

Light-emitting diodes see TK7871.89.L53

Electroluminescent display systems see TK7882.I6

## Electron tubes

7871.7

## General works

## Vacuum tubes

7871.72

## General works

7871.73

## Cathode ray tubes

7871.74

## Klystrons

7871.75

## Magnetrons

7871.76

## Storage tubes

7871.77

## Traveling-wave tubes

7871.79.A-Z

## Other, A-Z

7871.79.G95

## Gyrotrons

7871.79.K4

## Kenotrons

7871.79.P4

## Pentodes

## Electronics

## Apparatus and materials

## Electron tubes

## Vacuum tubes

## Other, A-Z -- Continued

7871.79.T7

Trochotrons

7871.79.X2

X-ray tubes

## Gas tubes

7871.8

General works

7871.82

Mercury-arc rectifiers

7871.83

Thyratrons

7871.84.A-Z

Other, A-Z

7871.84.C6

Cold cathode tubes

7871.84.N4

Neon tubes

## Semiconductors

Class here works on semiconductor materials used in electronic engineering

For general works on the physical properties of semiconductor materials see QC610.9+

For specific semiconductor materials used in electronic engineering see TK7871.15.A+

7871.85

General works

7871.852

Failures (General)

For specific semiconductors see TK7871.86+

## Diodes

7871.86

General works

7871.87

Tunnel diodes

7871.88

Varactors

7871.89.A-Z

Other, A-Z

7871.89.A94

Avalanche diodes

7871.89.G84

Gunn diodes

7871.89.L53

Light-emitting diodes

7871.89.S35

Schottky-barrier diodes

7871.89.S95

Switching diodes

7871.89.Z46

Zener diodes

Electroluminescent devices see TK7871.68+

Integrated circuits see TK7874+

## Transistors

7871.9

General works

7871.92

Junction

7871.95

Field effect

7871.96.A-Z

Other, A-Z

7871.96.B55

Bipolar

7871.96.M53

Microwave

7871.96.T45

Thin film

7871.98

Thermistors

7871.99.A-Z

Other, A-Z

7871.99.A45

Amorphous semiconductors

Cf. QC611.8.A5 Physics

7871.99.C45

Charge transfer devices. Charge coupled devices

7871.99.C65

Compound semiconductors

7871.99.M4

Metal insulator semiconductors

7871.99.M44

Metal oxide semiconductors

7871.99.O74

Organic semiconductors

7871.99.T5

Thyristors

7871.99.V3

Varistors

Optoelectronic devices see TK8300+

## Electronics

## Apparatus and materials -- Continued

7872.A-Z

## Other, A-Z

Apparatus and components to be classed here unless otherwise provided for in the field of application

Capacitors see TK7872.C65

Charge transfer devices see TK7871.99.C45

7872.C56

Coils

Cold plates see TK7872.H4

7872.C65

Condensers. Capacitors

7872.C67

Contactors

7872.C68

Contacts

7872.C7

Counters

7872.C77

Cryoelectronic devices

7872.C8

Current converters

7872.C83

Current regulators

7872.D37

Decoders

7872.D4

Delay lines

7872.D48

Detectors. Sensors. Sensor networks

Infrared detectors see TA1573

Positioners see TJ223.P67

Voltage detectors see TK321

Intelligent sensors see TK7871.676

Metal detectors see TK7882.M4

Motion detectors see TK7882.M68

Proximity detectors see TK7882.P7

Optical detectors see TK8360.O67

7872.D53

Dielectric devices

7872.E45

Electron gun

7872.E7

Equalizers

7872.F4

Ferrite devices

7872.F44

Ferroelectric devices

7872.F5

Filters (Electric)

7872.F54

Flexible electronics

7872.F7

Frequency changers

7872.F73

Frequency synthesizers

Frequency-voltage converters see TK7872.V54

7872.F85

Function generators

Cf. TK7895.F8 Function generators (Computers)

7872.G8

Gunn effect devices

7872.G9

Gyrators

7872.H3

Hall effect devices

7872.H4

Heat sinks

Including cold plates

7872.I63

Inductors

7872.I65

Inverters

7872.L56

Liquid crystal displays

7872.L64

Logic devices

7872.M25

Magnetic cores and devices

7872.M3

Masks

Including microlithography

7872.M46

Membrane switches

7872.M5

Mixers

7872.M6

Modulators

7872.M8

Multiplexers

7872.N4

Negative-resistance devices

## Electronics

## Apparatus and materials

## Other, A-Z -- Continued

7872.N6 Noise generators  
 7872.O7 Oscillators  
 7872.P38 Phase-locked loops  
 7872.P39 Phase shifters  
 7872.P54 Piezoelectric devices  
 7872.P6 Potentiometer  
 7872.P75 Printed electronics  
 7872.P8 Pulse generators  
 7872.R35 Rectifiers  
 7872.R38 Relays  
 7872.R4 Resistors  
 Sensor networks see TK7872.D48  
 Sensors see TK7872.D48  
 7872.S5 Signal generators  
 7872.S8 Superconductors  
 7872.T55 Thin film devices  
 7872.T57 Topological insulators  
 7872.T6 Transducers  
 7872.T7 Transformers  
 7872.T74 Transmission lines  
 7872.V53 Voltage dividers  
 7872.V54 Voltage-frequency converters  
 7872.V55 Voltage regulators

## Microelectronics. Integrated circuits

For processes involving masks or microlithography see TK7872.M3

7874 General works  
 7874.5 Catalogs of microelectronic equipment  
 7874.53 Interconnects  
 7874.54 Lumped elements  
 7874.55 Integrated circuit layout  
 Integrated circuits, Three-dimensional see TK7874.893  
 7874.58 Testing. Measurement. Quality control  
 7874.6 Application-specific integrated circuits  
 7874.65 Digital integrated circuits  
 7874.654 Linear integrated circuits  
 7874.66 Low voltage integrated circuits  
 7874.7 Very high speed integrated circuits  
 7874.75 Very large scale integrated circuits  
 7874.76 Ultra large scale integrated circuits  
 7874.78 Radio frequency integrated circuits  
 7874.8 Molecular electronics  
 Nanoelectronics. Quantum systems  
 7874.84 General works  
 7874.843 Nanolithography  
 Including nanoimprint lithography  
 7874.845 Nanonetworks  
 7874.85 Nanowires  
 7874.88 Quantum dots  
 7874.885 Quantum systems control  
 7874.887 Spintronics  
 7874.888 Systems on a chip  
 7874.893 Three-dimensional integrated circuits  
 7874.9 Vacuum microelectronics

- Electronics -- Continued
- 7875           Microelectromechanical systems  
                   For devices applied to a specific field, see the field  
                   For microharvesters, see TK2897
- Microwaves  
                     Including microwave circuits
- 7876           General works  
                   Amplifiers see TK7871.2+  
                   Heating see TK4601+  
                   Transistors see TK7871.96.M53  
                   Tubes see TK7871.7+  
                   Waveguides see TK7871.65
- 7876.5       Millimeter waves
- 7877       Submillimeter waves  
                   Including terahertz technology
- Electronic measurements
- 7878       General works
- 7878.2      Time measurements
- Electronic instruments  
                     Cf. TK301+ Electric meters
- 7878.4      General works
- Auxiliary equipment
- 7878.5      General works
- 7878.6      Probes
- 7878.7      Cathode ray oscillographs. Oscilloscopes
- Voltmeters  
                     General works
- 7879       Vacuum tube voltmeters
- 7879.2      Frequency meters
- 7879.4      Applications of electronics
- 7880       General works
- 7881       Industrial electronics
- 7881.15     Power electronics
- Special power supply circuits see TK7868.P6
- Special applications
- 7881.2      Electronic control
- 7881.25     Home automation  
                     For home computer networks see TK5105.75
- 7881.3      Home entertainment systems  
                     Cf. TK9961 Home video systems amateurs' manuals
- Sound systems. Sound recording. Sound reproduction  
                     For electroacoustics see TK5981+
- 7881.4      General works
- 7881.45     Sound studios
- 7881.5      Intercommunication systems
- Magnetic tape recorders and recording
- 7881.6      General works  
                     Cf. TK5981+ Electroacoustics
- 7881.65     Digital audiotape recorders and recording
- 7881.7      High fidelity systems
- 7881.75     Compact disc players
- 7881.78     Minidisks and players
- Stereo high fidelity systems. Quadraphonic sound systems
- 7881.8      General works
- 7881.83     Surround-sound systems
- 7881.85     Automobile sound systems and equipment

## Electronics

## Applications of electronics

## Special applications

Sound systems. Sound recording. Sound reproduction -- Continued

7881.9 Theaters, auditoriums, etc.

7881.94 Virtual reality

7882.A-Z Other, A-Z

Class works here unless otherwise provided for in the field of application

7882.A37 Agriculture

7882.B56 Biometric identification

7882.C56 Compact discs

Detectors, Metal see TK7882.M4

Detectors, Motion see TK7882.M68

7882.D93 DVDs. DVD players

7882.E2 Eavesdropping. Electronic surveillance

For video surveillance see TK6680.3

Cf. HV7936.T4 Police work

7882.E44 Electronic paper

Facsimile transmission see TK6710+

7882.G35 Games

7882.I6 Information display systems

7882.M4 Metal detectors

Mobile communication systems see TK6570.M6

Motion detectors

7882.M68 Pattern recognition systems

7882.P3 Cf. TA1650+ Optical pattern recognition

7882.P7 Proximity detectors

7882.S3 Scanning systems

7882.S65 Speech processing systems

7882.S78 Stun guns

Telecommunication see TK5101+

7882.T47 Three-dimensional display systems

For three-dimensional video see TK6680.8.A15

For stereoscopic photography see TR780

7882.W437 Wearable technology

Class particular applications with the field of application, e.g., RD132, Artificial implants and implant materials

7882.W44 Weighing systems

## Computer engineering. Computer hardware

Including design and construction

Cf. QA75.5+ Computers (General), electronic data processing, computer software, etc.

Cf. QA267+ Machinery theory

Cf. T58.6+ Industrial information systems

Cf. TJ212+ Control engineering

7885.A1 Periodicals, societies, congresses, etc.

7885.A2 Dictionaries and encyclopedias

7885.A4 Directories

7885.A5 History

7885.A6-Z General works

## Biography

Collective

7885.2 Individual, A-Z

7885.22.A-Z Popular works

7885.4 Amateurs' manuals for construction see TK9969

7885.5 Juvenile works

Computer engineering as a profession

## Electronics

## Applications of electronics

## Computer engineering. Computer hardware

## Computer engineering as a profession -- Continued

- 7885.53      General
- 7885.54      Computer technicians
- 7885.6       Study and teaching
- 7885.7       Hardware description languages
- 7886         Computer manufacturing plants. Manufacturing of computers and computer components
  - Including management
- 7887         Maintenance and repair
  - Including upgrading
- 7887.5       Input-output equipment
  - General works
  - Special
    - 7887.55      Data tape drives
    - 7887.6      Analog-to-digital converters. Digital-to-analog converters
    - 7887.7      Printout equipment. Computer printers
    - 7887.8.A-Z   Other equipment, A-Z
      - 7887.8.C6    Computer output microfilm devices
      - 7887.8.D37   Data disk drives
      - 7887.8.D5    Digital plotters
      - 7887.8.M63   Disk drives, Data see TK7887.8.D37
      - 7887.8.R4    Modems
      - 7887.8.T4    Reading machines
      - 7887.8.X18   Terminals
      - 7888         XY plotters
- 7888         Analog computers
- 7888.3       Digital computers
  - 7888.4       General works
  - Circuits
    - Including logic and switching circuits
- 7889.A-Z     Special computers. By name, A-Z
  - 7889.A37     AIM 65
  - 7889.A66     Apple II
  - 7889.A663    Apple IIe
  - 7889.A85     AT&T
  - 7889.B3      BBC microcomputer
  - 7889.B4      Besm
  - 7889.C2      CDC 6600
  - 7889.E5      ES 1020
  - 7889.F44     FELIX C-256
  - 7889.I26     IBM Personal Computer
  - 7889.I5      Illiac
  - 7889.M33     Macintosh
  - 7889.M55     Minsk
  - 7889.R4      REAC
  - 7889.S4      Seac
  - 7889.S7      Strela
  - 7889.S8      Swac
  - 7889.T77     TRS-80
  - 7889.U6      Univac
  - 7889.U7      Ural
  - 7889.W47     Whirlwind
  - 7889.Z54     Zilog Model Z-80

## Electronics

## Applications of electronics

## Computer engineering. Computer hardware -- Continued

- 7895.A-Z Special components and auxiliary equipment, A-Z
- 7895.A5 Amplifiers
- 7895.A65 Arithmetic units
- 7895.A8 Associative storage see TK7895.M4
- 7895.B33 Automatic test equipment
- 7895.B33 Backplanes. Motherboards
- 7895.B87 Buses
- 7895.C382 Cache memory see TK7895.M4
- 7895.C39 Cathode ray tube memory systems
- 7895.C39 CD-ROMs. CD-ROM drives
- 7895.C7 Cryotrons
- 7895.D28 Data loggers
- 7895.D3 Data tapes
- 7895.E42 Embedded computer systems
- 7895.E43 Embedded Internet devices
- 7895.E96 Expansion boards
- 7895.F8 Function generators
- 7895.G36 Cf. TK7872.F85 Function generators (Electronic instruments)
- 7895.G36 Gate array circuits
- 7895.M3 Input-output equipment see TK7887.5+
- 7895.M3 Magnetic memory
- 7895.M4 Memory cards see TK7895.S62
- 7895.M4 Memory systems
- Including random access memory, read only memory, cache memory, associative storage, etc.
- 7895.M5 Microprocessors
- Cf. TJ223.M53 Automatic control
- 7895.O6 Motherboards see TK7895.B33
- 7895.O6 Optical equipment
- 7895.P3 Parametrons
- 7895.P38 PCMCIA cards
- 7895.P68 Power supply
- 7895.S54 Random access memory see TK7895.M4
- 7895.S62 Read only memory see TK7895.M4
- 7895.S65 Shift registers
- 7895.S65 Smart cards. Memory cards
- 7895.T73 Speech recognition systems
- Transputers
- Optoelectronic devices. Photoelectronic devices
- Including circuits manuals
- For special applications, see the field of application, e.g. TR260.5 Electric eye cameras
- For general works on optoelectronics see TA1750+
- 8300 Periodicals, societies, congresses, etc.
- 8304 General works
- 8305 Optical wave guides
- 8306 General works
- 8306 Optical fibers
- Photoemissive tubes. Phototubes
- 8308 General works
- 8312 Photodiodes
- 8314 Photomultipliers
- 8315 Imaging systems
- 8315 General works



## Electronics

- Optoelectronic devices. Photoelectronic devices
  - Photoemissive tubes. Phototubes
    - Imaging systems
      - 8316 Image converters and intensifiers
        - Cf. TK8334 Solid-state image intensifiers
- Semiconductor devices
  - 8320 General works
  - 8322 Photovoltaic cells
    - For solar batteries see TK2960+
  - Photoconductive cells
    - 8330 General works
    - 8331 Photoresistors
    - 8332 Phototransistors
    - 8334 Solid-state image intensifiers
  - 8360.A-Z Other devices, A-Z
    - 8360.E44 Electrochromic devices
    - 8360.L48 Light amplifiers. Optical amplifiers
    - 8360.L5 Light modulators
    - 8360.M53 Microresonators
    - 8360.O65 Optical antennas
      - Optical amplifiers see TK8360.L48
    - 8360.O67 Optical detectors
    - 8360.O68 Optical MEMS. Micro-optomechanical systems
    - 8360.O69 Optical tweezers
    - 8360.P5 Photopotentiometer
    - (8404) Optical data processing systems
      - see TA1630+
- Plasmonics
  - 8583 Periodicals, societies, etc.
  - 8584 Congresses
  - 8585 General works
- Nuclear engineering. Atomic power
  - 9001 Periodicals, societies, etc.
  - 9006 Congresses
  - Exhibitions. Museums
    - 9007.A1 General works
    - 9007.A2-Z By region or country, A-Z
      - Subarrange each country by Table T4b
  - 9008 Collected works (nonserial)
  - 9009 Dictionaries and encyclopedias
  - 9012 Directories
  - Biography
    - 9013 Collective
    - 9014.A-Z Individual, A-Z
  - 9021-9127 Country divisions (Table T1a)
    - Add country number in table to TK9000
  - 9145 General works
  - 9146 Elements. Popular works
  - 9148 Juvenile works
  - 9149 Laboratory manuals
  - 9151 Handbooks, tables, etc.
- Radiation environment procedures and equipment
  - Cf. HV8077.5.N83 Nuclear forensics
  - Cf. RA569 Radioactive substances and ionizing radiation in public health
  - Cf. TK9210+ Shielding

## Nuclear engineering. Atomic power

## Radiation environment procedures and equipment -- Continued

- 9151.4      General works
- Remote handling
- 9151.6      General works
- 9151.7      Manipulators. Glove boxes
- Accidents and their prevention. Nuclear safety
  - For accidents or safety of nuclear power plants in specific places see TK1341+
- 9152        General works
- 9152.13     Emergency planning
- 9152.14     Human factors
- 9152.15     Inspection
- 9152.16     Risk assessment
- 9152.163    Earthquake engineering
- 9152.1645   Security measures
- 9152.165    Storage
  - Including temporary storage of discarded materials
  - For permanent disposal see TD898.17+
- 9152.17     Transportation of radioactive substances
  - Cf. TD897.85+ Radioactive waste disposal
- 9152.2      Decontamination. Decommissioning of facilities
  - Cf. RA569 Public health
  - Cf. S589.6 Agriculture
  - Cf. TD427.R3 Water pollution
  - Cf. TD887.R3 Air pollution
  - Cf. TD898.15+ Radioactive waste sites
- 9152.5      Patents
- 9153        General special
- 9155        Addresses, essays, lectures
- 9155.5      Nuclear engineering as a profession
- Study and teaching
- 9165        General works
- 9165.5      Examinations, questions, etc.
- United States
  - 9166        General works
  - 9167.A-Z    Special schools. By place, A-Z
  - 9168.A-Z    Other countries, A-Z
  - 9169.A-Z    Special schools. By place, A-Z
- Instruments. Nuclear reactor instrumentation
- 9178        General works
- 9180        Nuclear counters
  - Cf. QC787.C6 Counters
- 9182        Neutron sources
- 9183.A-Z    Other special instrumentation, A-Z
- 9183.S24    Safety instrumentation
- 9183.T54    Thermometers
- Materials
  - For reactor fuels, enrichment, reprocessing see TK9360+
  - For radioisotopes, radioactive substances see TK9400+
- 9185.A1     Periodicals, societies, etc.
- 9185.A2-Z   General works
- 9185.2.A-Z   Special, A-Z
  - 9185.2.G73   Graphite
  - 9185.2.H33   Hafnium
  - 9185.2.L43   Lead
  - 9185.2.M66   Molybdenum

## Nuclear engineering. Atomic power -- Continued

## Nuclear reactors

For nuclear power plants for electricity see TK1341+

## Fission reactors

- 9202 General works
- 9203.A-Z Special types, A-Z
- 9203.A28 Accelerator-driven systems
- 9203.B6 Boiling water reactors
- 9203.B7 Breeder reactors
- 9203.F3 Fast reactors
- 9203.F5 Fluid fuel reactors
- 9203.G3 Gas cooled reactors
- 9203.H4 Heavy water reactors
- 9203.L45 Light water reactors
- 9203.L5 Liquid metal-cooled reactors
- 9203.M65 Molten salt reactors
- 9203.O7 Organic moderated reactors
- 9203.P7 Pressurized water reactors
- 9203.P8 Pulsed reactors
- 9203.S6 Sodium graphite reactors
- 9203.S65 Solid fuel reactors
- 9203.S86 Superheating reactors
- 9203.W37 Water-cooled reactors
- 9204 Fusion reactors
- 9207 Fuel elements
- 9207.5 Fuel claddings
- 9209 Moderators
- Shielding
  - 9210 General works
  - 9211 Containment
  - 9211.5 Nuclear pressure vessels
  - 9211.7 Nuclear power piping
  - 9212 Cooling
  - 9220 Control rooms for nuclear facilities
  - 9230 Nuclear reactors for propulsion
    - Cf. TJ623 Nuclear locomotives
    - Cf. TL704.1 Atomic engines for aircraft
    - Cf. TL783.5 Nuclear rockets
    - Cf. VM774+ Marine nuclear reactor plants
- 9340 Particle accelerators
- 9350 Chemical processes. Radiochemistry
- Reactor fuels. Enrichment. Reprocessing
  - 9360 General works
  - 9363 Uranium as fuel
  - 9365 Plutonium as fuel
- Radioisotopes. Radioactive substances
  - 9400 General works
  - 9401 Catalogs, pricelists, etc.
- Electricity for amateurs. Amateur constructors' manuals
  - 9900 Periodicals, societies, etc.
  - 9901 General works
  - 9909 Magnetoelectric machines
  - 9911 Generators and motors
  - 9915 Transformers
  - 9917 Electric batteries
  - 9918 Solar batteries. Solar cells

- Electricity for amateurs. Amateur constructors' manuals -- Continued
- 9921 Electric lighting and lamps  
    Cf. TT197.5.L34 Woodwork  
    Cf. TT897.2 Decorative crafts  
Electric bells see TK7108+
- Telegraph
- 9941 General works
- 9946 Wireless telegraph
- 9951 Telephone
- Radio. Wireless telephone
- 9956 General works
- 9957 Microwave communication systems  
    Cf. TK5103.2+ wireless communication systems
- Television
- 9960 General works
- 9961 Video tape recorders. Video recording. Home video systems  
    Cf. TR896+ Home video photography
- 9962 Satellite television. Home earth stations
- Electronics (General)
- 9965 General works
- 9966 Integrated circuits
- 9967 Magnetic recorders and recording
- 9968 Sound systems  
    Including high fidelity and stereophonic systems
- 9969 Computers
- Home computer networks, including amateurs' manuals see TK5105.75
- 9971 Electronic games and toys  
    Including video games

## Motor vehicles. Aeronautics. Astronautics

## Motor vehicles

Including automotive engineering

Cf. GV1020+ Automobile travel

## Periodicals and societies

Arrange by language of publication

- 1 English
- 2 French
- 3 German
- 4 Other languages (not A-Z)
- (5) Yearbooks

see TL1+

- 6 Congresses

## Exhibitions. Museums. Collectors and collecting

Cf. TL152.2 Restoration of automobiles

- 7.A1 General works
- 7.A2-Z By region or country, A-Z

Subarrange each country by Table T4b

- 8 Collected works (nonserial)
- 9 Dictionaries. Encyclopedias
- 10 Communication of automotive information

- 10 General works
- 11 Computer network resources

Including the Internet

- 12 Directories
- 15 History. Pictorial works

- 21-127 Special countries (Table T1a)

Add country number in table to TL0

Including registers

## Biography

- 139 Collective
- 140.A-Z Individual, A-Z

## General works

Cf. TL200+ Automobiles

- 144 Early to 1890
- 145 1890-
- 146 Elementary textbooks
- 146.5 Popular works
- 147 Juvenile works
- 151 Manuals, pocketbooks, etc.

## Motor vehicle operation. Automobile operation

## Cost of operation

- 151.5 General works
- 151.6 Fuel consumption

## Maintenance and repair

- 152 General works
- 152.15 Cleaning. Detailing
- 152.2 Restoration
- 152.25 Safety measures

## Drivers

Including health and psychology

Cf. HD8039.A76+ Automobile driving as an occupation

Cf. HE5613.5+ Traffic accidents, safety, etc.

- 152.3 General works
- 152.35 Medical and psychological examination
- 152.4 Drivers' tests

## Motor vehicles

Motor vehicle operation. Automobile operation -- Continued

## Driving

- 152.5      General works
- Special countries
- 152.52      United States
- 152.55.A-Z      Other countries, A-Z
- 152.58      Stunt driving
- Driver education
- 152.6      General works
- 152.65      Elementary and secondary school courses
- 152.66.A-Z      By region or country, A-Z
- 152.7.A-Z      Special methods and equipment, A-Z
- 152.7.D7      Driving simulators
- 152.8      Automatic control
  - Cf. TE228.3+ Intelligent transportation systems
- 153      Service stations
  - Battery charging stations (Electric vehicles) see TL220.5
- 153.5      Lubrication and lubricants
- 153.7      Towing
- 154      General special
- 155      Addresses, essays, lectures
- 156      Study and teaching. Automobile schools
- 157      Examinations, questions, etc.
- 158      Research
- Automobile equipment and supplies
  - Including parts catalogs
  - Cf. TL240+ Design, construction and equipment
- 159      General works
- 159.5      Safety appliances. Air bags. Child seats. Seat belts
  - Cf. HE5620.S34 Seat belt use
  - Cf. TL242 Safety factors. Safety standards
- 160      Catalogs of dealers
  - For special motive powers see TL200+
- 162      Automobile purchasing. Buyers' guides
- 165      Motor vehicle fleets
- 175      Parking facilities
  - Including parking lots and parking garages
  - Cf. HE336.P37 Parking
- Special automobiles. By power
- 200      Steam automobiles
- Steam wagons, trucks, etc. see TJ705
- Gasoline automobiles
  - Where possible use TL144+
- 205      General works
- 206      Popular works. Juvenile works
- 207      Manuals, pocketbooks, etc.
- (208)      Maintenance and repair
  - see TL152+
- 209      General special
- Construction details
  - Motors. Engines
    - Cf. TJ782+ Internal combustion engines
- 210      General works
- 210.5      Two-stroke cycle engines
- 210.7      Wankel engines

## Motor vehicles

## Special automobiles. By power

## Gasoline automobiles

## Construction details -- Continued

- 212 Carburetors and carburetion
- 213 Ignition devices. Magnetos
- 214.A-Z Other, A-Z
- 214.A4 Air filters
- 214.B43 Bearings
- 214.C35 Camshafts
- 214.C64 Control systems
- 214.C73 Cooling system see TL214.R3
- 214.C93 Crankshafts
- 214.E93 Cylinders. Cylinder heads. Cylinder blocks
- Exhaust systems
  - Including exhaust manifolds
- 214.F78 Fuel injection systems
- 214.F8 Fuel systems
- 214.G37 Gaskets
- Low pollution combustion see TL214.P6
- 214.M68 Motor mounts
- 214.O5 Oil system
- 214.P57 Pistons
- 214.P6 Pollution control devices. Low pollution combustion
  - Cf. TD886.5 Automobile exhaust pollution
- 214.R3 Radiators. Cooling system
- 214.S8 Superchargers
- 214.T55 Timing belts. Timing chains
- Timing chains see TL214.T55
- 214.T87 Turbochargers
- 214.V3 Valves
- 215.A-Z Special makes, A-Z
  - Including catalogs, handbooks, etc.
- 215.A235 Acabion
- 215.A35 Alfa Romeo
- 215.A75 Aston Martin
- 215.B25 BMW
- 215.B4 Bentley
- 215.B82 Bugatti
- 215.B84 Buick
- 215.C27 Cadillac
- 215.C33 Camaro
- 215.C44 Challenger
- 215.C443 Chandler
- 215.C48 Chevelle
- 215.C5 Chevrolet
- 215.C56 Citroën
- 215.C6 Corvette
- 215.F47 Ferrari
- 215.F69 Focus
- 215.F7 Ford
- 215.G4 General Motors
- 215.J3 Jaguar
- 215.L33 Lamborghini
- 215.L95 Lykan HyperSport
- 215.M34 Maserati

## Motor vehicles

## Special automobiles. By power

## Gasoline automobiles

## Special makes, A-Z -- Continued

- 215.M4 Mercedes
- 215.M465 Mini
- 215.M8 Mustang
- 215.N35 Nano
- 215.O68 Optima
- 215.P68 Pontiac
- 215.R4 Renault
- 215.R445 Reva (Italy)
- 215.V544 Viper
- 215.V6 Volkswagen
- 216.5 Alternative fuel vehicles
- 217 Alcohol automobiles
- Electric vehicles and their batteries, etc.
  - For special makes see TL215.A+
- 220 General works
- 220.5 Battery charging stations
- 221.13 Fuel cells for vehicles
- 221.15 Hybrid vehicles. Hybrid cars
- 222 Solar vehicles. Solar cars
- 223 Industrial vehicles and trucks
- 225 Compressed-air automobiles
- Gas turbine automobiles
  - 226 General works
  - 227 Automotive gas turbines
  - 228 Natural gas vehicles
    - For gas producer automobiles see TL229.G3
- 229.A-Z Other, A-Z
- 229.A25 Acetylene
- Alcohol see TL217
- (229.A5) Amphibious
  - see TL235.63
- (229.C66) Compressed natural gas
  - see TL228
- 229.D5 Diesel
- 229.G3 Gas producer
- (229.G33) Gases, Compressed
  - see TL228
- 229.H9 Hydrogen
- 229.L56 Liquid nitrogen
- 229.M47 Methanol
- 229.M48 Methyl ether
- (229.N38) Natural gas
  - see TL228
  - Nitrogen, Liquid see TL229.L56
- Automobiles for freight, etc. Trucks
  - Including vans and sport utility vehicles
  - For steam wagons, trucks, etc. see TJ705
  - For truck-mounted campers and coaches see TL298
  - Cf. TL297.6 Truck trailers
- 230.A1 Periodicals, societies, etc.
- 230.A2-Z General works
- 230.12 Pictorial works



## Motor vehicles

## Automobiles for freight, etc. Trucks -- Continued

- 230.15 Juvenile works
- 230.2 Maintenance and repair
- 230.3 Truck drivers, driver training and driving
  - Cf. HD7269.A+ Industrial hygiene and welfare of truck drivers
  - Cf. HD8039.A76+ Automobile driving as an occupation
  - Cf. HE5601+ Regulations and special problems
- 230.5.A-Z Special types, makes, etc., A-Z
- 230.5.B68 BMW X3 sport utility vehicle
- 230.5.C37 Caravan van
- 230.5.C45 Chevrolet trucks
- 230.5.F54 Foden trucks
- 230.5.F57 Ford trucks
- 230.5.F6 Four Wheel Drive Vehicle
- 230.5.N57 Nissan trucks
- 230.5.S28 Scania trucks
- 230.5.W45 White trucks

## Buses

- Cf. HE5601+ Automotive transportation (economic aspects)
- 232 General works
- 232.2 Maintenance and repair
- 232.3 Bus drivers, driver training, and driving
- 232.5 Taxicabs
- 232.7 Limousines

## Tractors

- Cf. S711+ Transportation and power transmission machinery (Use on farms)
- Cf. TJ700 Steam traction engines
- 233.A1 Periodicals, societies, etc.
- 233.A2-Z General works
- 233.15 Juvenile works
- 233.2 Maintenance and repair
- 233.25 Conservation and restoration. Collectors and collecting
- 233.3 Tractor driving. Tractor pulling (Motorsports)
- 233.6 Special types, makes, etc., A-Z
- 233.8 Models

## Tracklaying vehicles

- For military tanks see UG446.5
- 234 General works
- 234.2 Snowmobiles
  - Cf. GV856.4+ Snowmobiling
- 235 Automobile trains
- Off-road vehicles
  - Including off-road trucks and all terrain vehicles
  - For snowmobiles see TL234.2
  - For dune buggies see TL236.7
  - For trail bikes see TL441
- 235.6 General works
- 235.63 Amphibious vehicles
- 235.65.A-Z Special makes, A-Z
- 235.7 Off-road vehicle driving
  - Including all terrain vehicle driving
- 235.8 Ambulances, hearses, etc.
  - Cf. RA995+ Ambulance service

## Motor vehicles -- Continued

## Racing automobiles. Sports cars

Class here works on racing or sports cars in general and special makes of racing or sports cars

For special classes of racing automobiles, see the class, e.g., Sprint cars see TL236.27 , Rally cars see TL236.4 , Karts see TL236.5 , etc.

- 236 General works  
 236.15.A-Z Special makes, A-Z  
 236.15.M35 McLaren
- Dragsters  
 236.2 General works  
 236.23 Funny cars  
 236.25 Indy cars  
 236.265 Formula One automobiles  
 236.27 Sprint cars  
 236.28 Stock cars  
 236.3 Hot rods. Street rods  
 236.4 Rally cars  
 236.46 Touring cars (Racing automobiles)  
 236.5 Karts  
 236.6 Midget cars  
 236.7 Dune buggies  
     Cf. GV1029.9.D8 Racing
- Models  
     Cf. GV1570 Model car racing
- 237 General works  
 237.2 Collectors and collecting
- Design, construction and equipment  
     Cf. TL210+ Motors
- 240 General works  
 240.2 Amateurs' manuals. Kit cars  
 240.5.A-Z Special materials, A-Z  
     For materials of a special component, see the component
- 240.5.A46 Alloys  
 240.5.A48 Aluminum  
 240.5.C65 Composite materials  
 240.5.G56 Glass  
 240.5.M33 Magnesium  
 240.5.P42 Plastics  
 240.5.S74 Steel  
 240.5.W64 Wood
- 241 Fires and fire prevention  
 242 Safety factors. Safety standards. Crashworthiness  
 Dynamics  
     Including effect of soil mechanics  
     For traction see TL295
- 243 General works  
 245 Aerodynamics  
 245.2 Moments. Pitch. Yaw. Roll  
 245.5 Handling characteristics  
 245.8 Stability  
 246 Vibration. Noise  
 250 Human engineering in design  
     Including trucks, buses, etc.
- 253 Automotive drafting  
 Special topics  
     Motors see TL210+

## Motor vehicles

## Design, construction and equipment

## Special topics -- Continued

## Frame. Chassis. Carriage body

- 255 General works
- 255.15 Bodies-in-white
- 255.2 Customizing. Decorating. Painting
- 255.6 Seats
- 255.8 Metalwork
- 255.85 Mirrors. Rearview mirrors
- 256 Upholstery
- 256.5 Windows and windshields

## Springs and suspension

- 257 General works
- 257.3 Air suspensions
- 257.5 Shock absorbers

## Steering gear

## Running gear. Power trains

- 260 General works
- 261 Clutches
- Transmission devices
- 262 General works
- 263 Automatic transmission devices
- 264.A-Z Other transmission types, A-Z
- 264.C66 Continuously variable transmission devices
- 265 Transaxles

## Brakes

- 269 General works
- 269.2 Air brakes
- 269.3 Antilock brake systems
- 269.36 Disc brakes
- 269.37 Drum brakes

## Wheels and tires

## Heating and ventilation equipment

- 271 General works
- 271.5 Air conditioning
- 271.9 Window and windshield defrosters

## Electric equipment. Batteries

- 272 Including starting, lighting and ignition devices, etc.
- Cf. TK2921 Primary cells
- Cf. TK2941 Storage batteries
- Cf. TL213 Ignition
- Cf. TL220+ Batteries for electric automobiles

## Electronic equipment

- 272.5 General works
- 272.52 Collision avoidance systems
- 272.53 Computers
- For engine control modules see TL214.C64
- 272.54 Automotive event data recorders
- 272.55 Display systems
- Audio equipment see TK7881.85
- 272.57 Driver assistance systems
- 272.58 Telematics
- 273 Automobile headlights
- 274 Automobile horns
- 275 Other details

## Motor vehicles

Design, construction and equipment -- Continued

278 Manufacturing. Factory methods and equipment

278.5 Quality standards

Including QS-9000

280 Patents

285 Testing (General)

Including motor vehicle safety inspection. For emissions inspection, see TL214.P6

Cf. TL242 Safety factors in motor vehicle design and construction

290 Endurance tests

295 Traction. Skidding. Traction tests

Cf. TE450 Roads and pavements

296 Industrial power trucks

296.5 Loaders (Automotive)

## Trailers

Cf. GV198.5+ Trailer camping

Cf. TH4819.M6 Mobile home construction

Cf. TX1100+ Mobile home living

297 General works

297.2 Boat trailers

297.6 Truck trailers

Including piggyback trailers

298 Truck-mounted campers and coaches

390 Cyclecars

## Cycles

Cf. GV1040+ Cycling

400 General works

Including history

405 Early forms

Including velocipedes

## Bicycles and tricycles

Cf. HD9993.B54+ Bicycle industry

Cf. HE5736+ Bicycle transportation

410 General works

412 Juvenile works

Motor bicycles see TL443

## Details. Parts

414 General works

415 Frame

420 Driving gear

422 Wheels

425 Tires

430 Repairs

435 Catalogs and other trade publications

Including cycles

437 Patents

Including cycles and motorcycles

437.5.A-Z Special types, makes, etc., A-Z

437.5.V45 Velomobiles

438 Models

Including cycles and motorcycles

## Motorcycles

439 Dictionaries

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

440 General works

440.15 Juvenile works

## Cycles

## Motorcycles -- Continued

- 440.2 Motorcyclists  
 440.5 Motorcycle riding  
 441 Trail bikes. Dirt bikes  
 Racing motorcycles  
     Cf. GV1060+ Motorcycle racing  
 442 General works  
 442.5 Drag bikes  
 442.7 Choppers and bobbers  
     Including home-built and customized motorcycles  
 443 Motor bicycles  
 444 Maintenance and repair  
 444.2 Conservation and restoration. Collectors and collecting  
 444.5 Workshops and shop practice  
 445 Motors, etc.  
 448.A-Z Special types, makes, etc. A-Z  
     e.g.  
 448.A47 Ariel  
 448.B18 BMW  
 448.C54 Cleveland  
 448.D8 Ducati  
 448.E44 Electric motorcycles  
 448.H3 Harley-Davidson  
 448.H6 Honda  
 448.I5 Indian  
 448.K38 Kawasaki  
 448.M66 Moto Guzzi  
 448.S8 Suzuki  
 448.T7 Triumph  
 448.Y3 Yamaha
- Motor scooters  
 450 General works  
 453.A-Z Special makes, A-Z  
 453.C87 Cushman  
 453.H66 Honda  
 453.L3 Lambretta  
 453.T84 Tul'skii  
 453.V47 Vespa
- 460 Autosleds  
 Roving vehicles (Astronautics)  
 475 General works  
 480 Moon cars  
 482 Coaster cars  
     Cf. GV1029.7 Soapbox racing, etc.
- 483 Pedal cars  
 484 Golf carts
- Aeronautics. Aeronautical engineering  
     Cf. GV750+ Air sports  
     Cf. HD9711.3 Lighter-than-air craft industry (Economic aspects)  
     Cf. HD9711.5 Aerospace industry  
     Cf. HE9761+ Air transportation  
     Cf. UG622+ Military aeronautics. Air warfare  
     Cf. VG90+ Naval aeronautics. Naval air warfare

## Aeronautics. Aeronautical engineering -- Continued

Periodicals, societies, yearbooks, etc.

Cf. TL521+ Serial documents of special countries, e. g. TL521.A3-TL521.A35, U.S. National Advisory Committee for Aeronautics; TL526.G7A3-TL526.G7A4, Great Britain Aeronautical Research Council

International

500  
500.5

General

International Civil Aviation Organization

Including technical material and general collections published by the organization that includes material of a technical nature

For administrative material see HE9762.5

501

English language

502

French language

503

German language

504

Other, not A-Z by language

505

Congresses

Exhibitions. Museums. Collectors and collecting

506.A1

General works

506.A2-Z

By region or country, A-Z

Subarrange each country (except the United States) by Table T4b

United States

506.U5

General works

506.U6A-.U6Z

Local, A-Z

507

Collected works (nonserial)

508

Scrapbooks

509

Dictionaries, encyclopedias, etc. Nomenclature. Symbols. Abbreviations

Directories. Registers

512

General works

Registers of aircraft see HE9769.A+

Registers of pilots

512.7

513

Patents

514

Catalogs of materials and equipment (General)

History

515

General works

516

Antiquities and legends

Special regions or countries

Cf. TL539+ Biography

America. United States

521

General works

U.S. National Aeronautics and Space Administration (NASA)

For special space research centers see TL862.A+

For NASA launch complexes see TL4027.A+

521.3.A-Z

Serials and collected sets, A-Z

e.g.

521.3.C6

Contractor report

521.312

Monographs

521.5

Regions

522.A-.W

States, A-W

523

Canada

524.A-Z

Latin America, Central America and West Indies. By country or island, A-Z

525.A-Z

South America, A-Z

526.A-Z

Europe, A-Z

e.g.

526.G7

Great Britain

527.A-Z

Asia, A-Z

e.g.

- Aeronautics. Aeronautical engineering
  - Special regions or countries
    - Asia, A-Z -- Continued
      - 527.I6 Indonesia
      - 527.P4 Philippines
    - 528.A-Z Africa, A-Z
    - 529 Australia
    - 529.5 New Zealand
    - Pacific Islands
      - 530.A1 General works
      - 530.A5-Z Special islands, A-Z
    - 531 Transoceanic flights
    - 532 Arctic regions. Antarctica
    - 537 Awards, prizes, etc. Competitions
      - Cf. TL721.5+ Air meets
    - 538 Badges, insignia, etc.
    - Biography
      - 539 Collective
      - 540.A-Z Individual, A-Z
        - e.g.
        - 540.L5 Lindbergh
    - General works
      - 544 Early to 1900
        - Cf. TL516 Antiquities and legends
      - 545 1900-
      - 546 Textbooks
      - 546.5 Examinations, questions, etc.
      - 546.7 Popular works
      - 547 Juvenile works
      - 549 Pictorial works
      - 551 Handbooks, pocketbooks, tables, etc.
      - 551.5 High-speed aeronautics
        - For supersonic and transonic aerodynamics see TL571
        - For hypersonic aerodynamics see TL571.5
  - 552 Civil aviation (Technology)
    - Cf. HE9761+ Air transportation
    - Cf. TL515+ History of aeronautics
    - Cf. TL664+ Use of airships
    - Cf. TL719.92+ Special uses of airplanes
  - Miscellaneous aspects of the general subject
    - 553 General works
      - Accidents and their prevention. Air safety
        - Cf. HE9784+ Air transportation
        - Cf. TL697.S3 Safety devices (General)
      - 553.5 General works
        - By region or country
          - United States
            - 553.52 General works
            - 553.525.A-Z By region or state, A-Z
            - 553.53.A-Z Other regions or countries, A-Z
        - Geography and aviation see G142
        - Aviation risks in life insurance see HG8810
        - Aviation insurance see HG9972+
      - 553.54 Aircraft bird strikes
        - For airport bird control see TL725.3.B5
      - 553.55 Near misses

- Aeronautics. Aeronautical engineering
- Miscellaneous aspects of the general subject -- Continued
- 553.6 Human engineering in aeronautics
- 553.7 Survival after airplane accidents
- 553.8 Search and rescue
- Survival and rescue adventures and narratives
- 553.9.A1 Periodicals, societies, etc.
- 553.9.A2-Z General works
- Aeronautics in art see N8217.A4
- (554) Aeronautics in literature
  - see class P
- Wit and humor see PN6231.A4
- 555 Physical and mental requirements for pilots
  - Including tests
  - For clinical aspects see RC1050+
  - Cf. RA615.2 Public health aspects
  - Cf. RA641.5 Transmission of disease
  - Cf. RA655+ Quarantine
- Meteorology in aeronautics. Aeronautical meteorology
- 556 General works
- 556.5 Study and teaching
- 557.A-Z Special, A-Z
- 557.A5 Air currents. Winds
- Atmospheric electricity see TL557.S65
- 557.A8 Atmospheric temperature
  - Cf. TL557.D4 Density altitude
- 557.C4 Charts
- 557.C6 Clouds
- 557.C7 Condensation trails
- 557.D4 Density altitude. Density altitude computers
- Density altitude computers see TL557.D4
- 557.F6 Fog control
- 557.H3 Hail
- 557.I3 Ice prevention
- 557.R4 Reporting and forecasting
- 557.S65 Static electricity. Atmospheric electricity
- 557.S7 Storms
- 557.V5 Visibility
- Winds see TL557.A5
- 557.V64 Volcanic ash
- 558.A-Z By region or country, A-Z
  - e.g.
  - 558.A1 General
  - 558.A5 Antarctica
  - 558.F8 France
  - 558.G4 Germany
- 559 Addresses, essays, lectures
- Study and teaching
  - Cf. LB1594.5 Elementary education
- 560 General works
- United States
- 560.1 General works
- 560.2.A-Z Special schools, A-Z
- Employee training in factories
- 560.25.A1 General works
- 560.25.A2-Z By company, A-Z



- Aeronautics. Aeronautical engineering
- Study and teaching -- Continued
- 560.3.A-Z Other countries, A-Z
- 560.4.A-Z Special schools, A-Z
- Flying schools see TL713.A+
- 561 Aeronautics as a vocation
- 563 Electronic data processing
- Communication of aeronautics information
- 563.5 General works
- 564 Information services
- 564.5 Language. Authorship
- Aeronautical research
- Cf. UG640+ Military aeronautical research
- 565 General works
- Research equipment. Laboratory construction and layout
- 566 General works
- 567.A-Z Special, A-Z
- 567.B3 Balances
- 567.B33 Ballistic ranges
- 567.B4 Basins. Water channels
- 567.I6 Instruments
- 567.M6 Models for wind tunnel and water testing
- 567.N6 Nozzles
- 567.P6 Plane table
- 567.R47 Research aircraft
- 567.S4 Shock tubes
- 567.T6 Towing apparatus
- Water channels see TL567.B4
- 567.W5 Wind tunnels
- 568.A-Z Special institutions, A-Z
- Including research conducted by governments, universities or others
- For the research reports, transactions and other serial publications of such institutions see TL500+
- Mechanics of flight: Aerodynamics
- 570 General works
- 570.3 Dictionaries and encyclopedias
- 571 Supersonic aerodynamics (General)
- Including transonic aerodynamics
- For special topics see TL574.A+
- 571.5 Hypersonic aerodynamics (General)
- For special topics see TL574.A+
- Cf. TL683.5 Hypersonic planes
- 573 General special
- 574.A-Z Special topics, A-Z
- 574.A37 Aeroelasticity
- 574.A4 Aerofoils. "Profils d'ailes"
- 574.A44 Aeroservoelasticity
- 574.A45 Aerothermodynamics. Aerodynamic heating
- Aerodynamic heating see TL574.A45
- 574.B3 Base flow
- 574.B6 Boundary layer
- Burbling see TL574.T8
- 574.C3 Cascades
- 574.C4 Compressibility
- Compressibility burbles see TL574.T8
- 574.C6 Control

- Aeronautics. Aeronautical engineering
  - Mechanics of flight: Aerodynamics
    - Special topics, A-Z -- Continued
      - Damping see TL574.S7
      - 574.D6 Downwash
      - 574.D7 Drag. Head resistance
      - 574.F5 Flow
      - 574.F6 Flutter
      - 574.F7 Friction
      - Ground cushion see TL574.G7
      - 574.G7 Ground effect. Ground cushion
      - Head resistance see TL574.D7
      - 574.I5 Interference
      - 574.L3 Laminar flow
      - 574.L4 Leading edges
      - 574.L5 Lift. Thrust
      - 574.M3 Magnus effect
      - 574.M6 Moments. Pitch. Yaw. Roll
      - 574.N6 Noise
      - Oscillations see TL574.S7
      - Pitch see TL574.M6
      - 574.P7 Pressure. Pressure distribution. Wing load
      - Pressure distribution see TL574.P7
      - Resistance see TL574.D7
      - Resistance, Air see TL570+
      - Roll see TL574.M6
      - 574.S4 Shock waves
      - 574.S55 Sonic boom
      - 574.S6 Spinning
      - 574.S7 Stability. Oscillations. Damping
      - 574.S74 Stalling
      - Thrust see TL574.L5
      - 574.T8 Turbulence. Burbling
        - Including compressibility burbles
      - 574.U5 Unsteady flow
      - 574.V5 Vibration
      - 574.V6 Vortex theory
      - 574.W3 Wakes
      - Wing load see TL574.P7
      - Yaw see TL574.M6
- 575 Natural flight
  - Cf. QL698.7 Flight of birds
- 576 Soaring
- 577 Hovering
- 578 Aerostatics
- Air navigation. Astronomy and navigation for air pilots
  - General works
  - 586 Logbooks, maps, charts, tables, etc.
    - Cf. QB7+ Ephemerides
  - 587 Special methods. Latitude and longitude
    - Cf. VK565 Navigation
  - 588 General works
  - 588.5 Inertial navigation
  - 588.7 Performance-based navigation
- Instruments
  - 589 General works

## Aeronautics. Aeronautical engineering

## Instruments -- Continued

- 589.2.A-Z Special, A-Z
- 589.2.A3 Accelerometers
- 589.2.A5 Air-speed indicators
- 589.2.A6 Altimeter
- Anemometer see QC932
- 589.2.A78 Artificial horizons
- 589.2.A8 Autosyn indicator
- 589.2.B3 Barograph
- 589.2.C5 Cinemitrailleuse
- 589.2.C58 Compass (Gyroscope)
- 589.2.C6 Compass (Magnetic)
- 589.2.D7 Drift indicator
- 589.2.E2 Earth inductor compass
- 589.2.F5 Flight recorders
- 589.2.N3 Navigation computer
- 589.2.O6 Optical gyroscope
- 589.2.P7 Pressure instruments
- (589.2.R2) Radio compass
  - see TL696.C7
- 589.2.R3 Rate of climb indicator
- 589.2.S4 Sextant
- 589.2.S7 Stall warning systems
- 589.2.T4 Tensionmeter
- 589.2.T5 Theodolite
- 589.2.T53 Thermometers
- 589.2.T8 Turn and bank indicator
- Display systems
- 589.3 General works
- 589.35.A-Z Special, A-Z
  - 589.35.G46 Geographical displays
  - 589.35.H42 Head-up displays
  - 589.35.H44 Helmet-mounted displays
- Guidance systems and automatic control
  - Including general works on drone aircraft guidance and control systems
- 589.4 General works
- 589.5 Automatic pilots. Gyropilot
- Engine instruments
- 589.6 General works
- 589.7.A-Z Special, A-Z
  - 589.7.T3 Tachometer
- Sailing directions. Pilot guides see TL726+
- Aircraft (General)
  - Including both lighter-than-air and heavier-than-air
- 600 General works
- 603 Identification marks and symbols
  - Cf. TL694.I4 Identification of aircraft by radar signal (IFF equipment)
- Lighter-than-air. Aerostation
- 605 General works
  - Balloons
    - Including free spheric balloons
- 609 Periodicals, societies, etc.
- 610 General works
- 612 Accidents
- 615 General special

## Aeronautics. Aeronautical engineering

## Aircraft (General)

## Lighter-than-air. Aerostation

## Balloons -- Continued

## History

- 616                   General works
- 617                   Invention and early history to 1800
  - Including the Montgolfiers
- 618                   1800-
  - Special ascensions. Special aeronauts. Personal narratives
- 620.A1               Collections
- 620.A2-Z            By name of aeronaut, A-Z
  - e.g.
  - 620.B6              Blanchard
  - 620.F6              Flammarion
  - 620.G6              Goddard, Eugene
  - 620.G7              Green, Charles
  - 620.L8              Lunardi
  - 620.O7              Orlandi
  - 620.P5              Piccard
  - 620.R6              Robert brothers
    - Class here ascensions of the Robert brothers (Anne-Jean Robert, 1758-1820 and Nicolas Louis Robert, 1761-1828)
  - 620.S55             Silberer
  - 620.T5              Tissandier
  - 620.T6              Tournachon
- 621.A-Z             Special balloons, A-Z
- 622                   Design and construction
- 623                   Rigging
- 625.A-Z             Parts and equipment, A-Z
  - 625.A6              Anchor
  - 625.B2              Ballast
  - 625.B3              Ballonet
  - 625.B4              Basket
  - 625.D7              Drag rope
  - 625.E6              Envelope
  - Instruments see TL589+
  - 625.N4              Net
  - 625.R5              Rip panel
  - 625.V3              Valves
- Operations of free balloons
  - 626                   Instructions and textbooks
  - 626.5                Licensing of balloon pilots
  - 627                   Use of free balloons
    - Cf. GV762+ Air sports and racing
    - Cf. QC879.3+ Meteorology
    - Cf. UG640+ Military aeronautics
- 630                   Pilot balloons
- 631                   Sounding balloons
  - Cf. QC879.3+ Meteorology
- 632                   Jumping balloons and balloon jumping
- 633                   Toy and propaganda balloons
- Captive balloons
  - 634                   General and spherical
  - 635                   Kite balloons
  - 636                   Equipment for captive balloons

- Aeronautics. Aeronautical engineering
  - Aircraft (General)
    - Lighter-than-air. Aerostation
      - Balloons
        - Captive balloons -- Continued
          - 637 Use of captive balloons
          - Use in war see UG640+
        - 638 Hot air balloons
          - Early history see TL616+
        - 639 Miscellaneous projects
          - Including balloon railways
      - Airships
        - 650 General works
        - 650.5 Juvenile works
        - 651 General special
          - Including discussions of the possibility of dirigibles, airships vs. airplanes, controversial material, safety, etc.
        - 654.A-Z Special projects to 1900. By name of inventor, etc., A-Z
          - e.g.
          - 654.D8 Dupuy de Lôme
          - 654.G5 Giffard
        - 655 Modern airships
          - General works
          - Pressure airships
            - 656 General works
            - 656.2 Nonrigid. Blimps
            - 656.4 Semirigid
            - 656.6 Metal-clad
          - 657 Rigid airships
        - 658.A-Z Special makes, A-Z
          - e.g.
          - 658.Z4 Zeppelin
      - 659.A-Z Individual ships, A-Z. Special voyages. Personal narratives
        - e.g.
        - 659.A4 Akron
        - 659.G7 Graf Zeppelin
        - 659.H5 Hindenberg
      - 660 Design and construction
        - 660.1 Rigging
        - 660.2 Strains and stresses
        - 660.3 Performance. Performance calculation
      - Testing
        - 660.4 General works
        - 660.5 Model testing
    - Details and parts
      - 661 General works
      - 662.A-Z Special, A-Z
        - 662.B3 Ballast
        - 662.B7 Bow caps
        - 662.C3 Cars
        - 662.C6 Control compartment
        - 662.E6 Envelope
        - 662.F7 Frame
        - 662.G3 Gas cells
        - 662.K4 Keel
        - Motor see TL701+

- Aeronautics. Aeronautical engineering
  - Aircraft (General)
    - Lighter-than-air. Aerostation
      - Airships
        - Details and parts
          - Special, A-Z -- Continued
          - Propellers see TL705+
          - 662.S7 Stabilizers
          - 662.S8 Steering apparatus
          - 663 Operation of airships
          - Use of airships
          - 664 General works
          - Transportation see HE9770.A4
          - 664.2 War
          - 664.3 Other
            - Cf. G599 Polar exploration
        - Materials and accessories for lighter-than-air craft
          - 665 General works
          - 666 Gas, hydrogen, helium. Inflation machinery
          - Other special see TL699.A+
          - Lighter-than-air craft industry (Technical aspects)
            - Cf. HD9711.3 Lighter-than-air craft industry (Economic aspects)
          - 667 General works
          - 668.A-Z Special companies, A-Z
        - Heavier-than-air craft
          - Airplanes
            - Periodicals see TL500+
            - 670 General works
            - History
              - For juvenile works see TL547
            - 670.3 General works
            - 670.5 Development of heavier-than-air craft before 1914
              - Including models and gliders
            - 670.7.A-Z Special projects before 1914, A-Z
              - e.g.
              - 670.7.L3 Langley
              - 670.7.M3 Maxim
          - General special
            - 671 General works
              - For juvenile works see TL547
            - 671.1 Airworthiness requirements. Specifications. Standards
            - Collectors and collecting see TL506.A1+
            - 671.2 Design and construction
            - 671.25 Drafting and blueprint reading
            - 671.28 Manufacturing. Factory equipment and methods
              - Cf. HD9711+ Airplane industry
              - Cf. TL724+ Airplane industry (Technical aspects)
            - 671.3 Monoplane, biplane, multiplane characteristics (Comparative)
            - 671.4 Performance. Performance calculation. Handling characteristics
            - 671.5 Rigging, bracing, welding, etc.
            - Stability see TL574.S7
            - 671.6 Structural analysis and design of air frames
            - 671.65 Noise
              - Cf. TD893.6.A57 Noise control
            - 671.7 Testing. Inspection
            - 671.8 Model testing

- Aeronautics. Aeronautical engineering
  - Aircraft (General)
    - Heavier-than-air craft
      - Airplanes
        - General special -- Continued
          - 671.85 Purchasing
          - 671.9 Maintenance and repair
          - 671.95 Conservation and restoration
        - Details and parts
          - Supporting surfaces
            - 672 General works
            - 673.A-Z Special, A-Z
              - 673.A6 Angle of incidence
              - 673.C3 Camber
              - 673.C35 Canard wings
              - 673.C7 Cruciform wings
              - 673.D4 Decalage
              - 673.D5 Delta wings see TL673.T7
              - 673.D8 Dihedral angle
              - 673.F6 Duct inlets
              - 673.F6 Flaps
              - 673.G3 Gap
              - 673.O23 Oblique wings
              - 673.O4 Ogee wings
              - 673.O8 Overhang
              - 673.P37 Parawings
              - 673.R4 Rectangular wings
              - 673.S4 Section
              - 673.S6 Shielding see TL673.T4
              - 673.S7 Slotted wings
              - 673.S7 Stagger
              - 673.S9 Sweepback
              - 673.T4 Taper see TL673.T4
              - 673.T4 Tips of wings. Taper. Shielding
              - 673.T7 Triangular wings. Delta wings
              - 673.W3 Washin and washout
          - 674 Structural parts and details
            - Including ribs, spars, struts, wires, etc.
    - 675 Folding wings
    - Control and stabilizing surfaces
      - 676 General works
      - 677.A-Z Special, A-Z
        - 677.A5 Ailerons
        - 677.E6 Elevators
        - 677.F5 Fins. Vertical stabilizer
        - 677.R8 Rudder
        - 677.S8 Stabilizer. Tailplane
        - Tailplane see TL677.S8
    - Control apparatus. Control stick
      - 678 General works
      - 678.5 Fly-by-wire systems
      - 678.8 Wing-warping
    - Fuselage
      - 680 General works
      - 681.A-Z Special, A-Z
        - 681.A5 Air conditioning

- Aeronautics. Aeronautical engineering
  - Aircraft (General)
    - Heavier-than-air craft
      - Airplanes
        - Details and parts
          - Fuselage
            - Special, A-Z -- Continued
            - 681.C3 Cabin
            - 681.C6 Cockpit
            - 681.C7 Cowling
            - 681.F5 Firewall
            - 681.H4 Heating
            - 681.I6 Instrument board
            - Instruments see TL589+
            - 681.L6 Longerons
            - 681.P7 Pressurization
            - 681.S6 Soundproofing
            - 681.W5 Windshields
            - 681.5 Nacelles
          - Landing gear. Undercarriage
            - General works
            - Special, A-Z
              - 682 Air cushion landing systems
              - 683.A-Z Axles
              - 683.A35 Brakes
              - 683.A8 Landing gear for use on snow see TL683.S6
              - 683.B7 Retractable landing gear
              - 683.R4 Shock absorbers
              - 683.S4 Skids. Wing and tail skids
              - 683.S5 Skis. Landing gear for use on snow
              - 683.T5 Tires
              - 683.W5 Wheels
              - Wing and tail skids see TL683.S5
- 683.3 Electric airplanes
  - For electrical systems and equipment see TL690+
- 683.5 Hypersonic planes
- Seaplanes
  - Cf. TL711.S43 Seaplane flying
- 684 General works
  - 684.1 Amphibians
  - 684.2 Flying boats. Hulls
  - 684.3 Floatplanes. Floats
  - 684.4 Biplanes
  - 684.5 Triplanes
  - 684.6 Tailless airplanes
  - 684.8 Flying automobiles
  - 685 Convertiplanes. Vertically rising aircraft
- Airplanes for special uses
  - 685.1 Light (or sport). Private planes
    - Cf. HE9795+ Economic aspects
    - Cf. TL721.4 Private flying
  - 685.15 Ultralight aircraft
  - 685.2 Mailplanes
  - 685.3 Military planes
    - Class here works on the manufacture, testing, and restoration of military airplanes
    - For markings, procurement, and use in warfare see UG1240+



- Aeronautics. Aeronautical engineering
  - Aircraft (General)
    - Heavier-than-air craft
      - Airplanes
        - Airplanes for special uses -- Continued
        - 685.35 Drone aircraft
          - For drone aircraft guidance and control systems see TL589.4+
          - For military uses of drone aircraft see UG1242.D7
        - Passenger planes
          - Cf. HE9787+ Passenger service
        - 685.4 General works
        - 685.5.A-Z Special equipment, etc., A-Z
          - 685.5.I6 Interior decoration
          - 685.5.R4 Restaurant
          - 685.5.S4 Seats
          - 685.5.S6 Sleeping accommodations
        - 685.6 Racing planes
        - 685.7 Transport planes. Cargo planes
          - Cf. HE9761+ Air transportation (Economic aspects)
      - 686.A-Z Special makes. By name of manufacturer, A-Z
        - e.g.
        - 686.A43 Airbus
        - 686.A77 Auster aircraft
        - 686.B65 Boeing Aircraft Company
        - 686.B68 Bréguet
        - 686.C27 Caproni
        - 686.D4 De Havilland Aircraft Company
        - 686.D65 Douglas Aircraft Company
        - 686.L6 Lockheed Aircraft Corporation
        - 686.R7 Rozhdestvenskii
        - 686.S7 Stearman
      - Airplane materials and accessories
        - 688 General works
        - Special materials see TL699.A+
        - Flying machines other than airplanes
          - see TL714+
    - 689 Radioisotope technology and components
    - Electrical systems and equipment
      - 690 General works
      - 690.5 Electromagnetic interference in aeronautics
      - 691.A-Z Special, A-Z
        - 691.A95 Auxiliary power supply
        - 691.B3 Batteries
        - 691.G4 Generators
        - 691.L3 Landing lights
        - 691.M3 Magnetic recorders
        - 691.N3 Navigation lights
        - Radio see TL693+
        - Radio see TL695+
        - 691.S4 Searchlights
        - 691.W5 Wiring
    - 692 Communication methods and equipment
      - General special
        - Including signaling, etc.
      - Electronic methods and equipment. Telegraph. Radio. Radar. Television
      - 693 General works

## Aeronautics. Aeronautical engineering

## Communication methods and equipment

## Electronic methods and equipment. Telegraph. Radio. Radar. Television -- Continued

- 694.A-Z Special, A-Z
- 694.A6 Antennas
- Bonding see TL694.I6
- 694.C6 Cipher and telegraph codes
- 694.I4 Identification
  - Including IFF (Identification - Friend or Foe)
- 694.I5 Inspection
- 694.I6 Interference. Bonding. Shielding
- 694.R4 Receiving
- Shielding see TL694.I6
- 694.T35 Telemetry
- 694.T4 Teletype
- 694.T7 Transmitting
- Electronic aids to navigation. Radio. Radar. Television
- 695 General works
- 695.5 Directories of radio stations
- 696.A-Z Special, A-Z
  - Altimeter see TL696.H4
  - Artificial satellites
  - 696.B4 Beacons
  - 696.B5 Beacon receiver
  - 696.C6 Collision prevention
  - 696.C7 Radio compass
  - 696.C75 Control tower display systems
  - 696.C8 Course computers. Course-line computers, etc.
  - 696.D5 Direction finders
  - 696.D6 Distance indicator
  - 696.D65 Distance measuring equipment (Aircraft to ground station)
  - Field and runway localizer see TL696.L3
  - Glide path systems see TL696.L33
  - 696.G7 Ground-speed indicator
  - 696.H4 Height indicator. Altimeter
  - 696.I5 Inspection
  - 696.L3 Landing aids
  - 696.L33 Instrument landing systems
    - Including ground controlled approach, etc.
    - Cf. TL711.B6 Blind flying
    - Cf. TL711.L3 Landing
  - 696.L65 Loran
  - 696.M3 Markers
  - 696.O5 Omnirange system
  - 696.R2 Radar
  - 696.R25 Radar air traffic control systems
  - 696.R3 Range
  - 696.T3 Tacan
- Miscellaneous equipment and apparatus
- 697.A1 General works
- 697.A2-Z Special, A-Z
  - 697.A57 Air ducts
  - 697.B4 Bearings
  - 697.C6 Clothing for pilots
    - Cf. TL697.G6 Goggles
    - Cf. TL697.P7 Pressure suits

## Aeronautics. Aeronautical engineering

## Miscellaneous equipment and apparatus

## Special, A-Z -- Continued

- 697.C65 Compressors
- 697.F37 Fasteners
- 697.F5 Fire prevention
  - Cf. TH9445.A5 Fire hazards of hangars
- 697.G6 Goggles
- 697.H4 Heat pipes
- 697.H44 Helmets
- 697.H9 Hydraulic equipment
- Ice prevention see TL557.I3
- 697.L3 Landing flares
- 697.L34 Lasers
- Military equipment (General and Army) see UG1240+
- Military equipment (Navy) see VG90+
- 697.O65 Optical equipment
- 697.O8 Oxygen equipment
- Photographic equipment see TR1+
- 697.P5 Pilot ejection seats
- 697.P6 Pneumatic equipment
- 697.P7 Pressure suits
- 697.S3 Safety devices (General)
  - Cf. TL750+ Parachutes
- 697.S8 Stabilizing devices
- Materials of construction
- 698 General works
- 699.A-Z Special, A-Z
- 699.A58 Alloys
- 699.A6 Aluminum
  - Including alloys
- 699.A8 Asbestos
- 699.C44 Cellulose acetate
- 699.C46 Ceramic materials
- 699.C57 Composite materials
- 699.C6 Copper
  - Including alloys
- 699.D6 Dopes
- 699.D9 Duralumin
- 699.F2 Fabrics
- 699.F5 Finishes
- 699.G6 Glue
- 699.G85 Gums and resins, Synthetic
- 699.L23 Laminated materials
- Laminated wood see TL699.W7
- 699.L3 Lantal
- 699.M32 Magnesium
- 699.M4 Metals
- 699.P6 Plastics
- Plywood see TL699.W7
- 699.P7 Potting compounds
- Resins, Synthetic see TL699.G85
- 699.R8 Rubber
- 699.S7 Spruce
- 699.S8 Steel
  - Including alloys

- Aeronautics. Aeronautical engineering
  - Materials of construction
    - Special, A-Z -- Continued
    - Timbers see TL699.W6
    - 699.T56 Titanium
    - 699.T8 Tubes
    - 699.W5 Wire
    - 699.W6 Wood. Timbers
    - 699.W7 Wood, Laminated. Plywood
  - Motors. Aircraft engines
    - 701 General works
    - 701.1 General special
    - 701.2 Influence of altitude
    - 701.3 Distributed propulsion
    - 701.4 Installation
    - 701.5 Maintenance and repair. Inspection
    - 701.6 Performance
    - 701.7 Specifications. Standards
    - 701.8 Testing
    - Details and parts
      - 701.9 General
      - 702.A-Z Special, A-Z
      - 702.A37 Actuators. Control systems
      - 702.C3 Carburetors
      - 702.C5 Connecting rods
      - Cooling system see TL702.R3
      - 702.C6 Cowlings
      - 702.C7 Crankshafts
      - 702.C9 Cylinders
      - 702.F8 Fuel feeding and tanks
      - 702.G4 Gearing
      - 702.I5 Ignition devices. Magnetos
      - 702.L8 Lubrication
      - Magnetos see TL702.I5
      - 702.M8 Mufflers
      - 702.O55 Oil filters
      - Opening and closing system see TL702.V3
      - 702.P5 Pistons
      - 702.R3 Radiators. Cooling system
      - 702.S7 Starting devices
      - 702.S8 Superchargers
      - 702.V3 Valves. Opening and closing system
    - 703.A-Z Special makes, A-Z
      - e.g.
      - 703.D4 De Havilland
      - 703.H5 Hispano-Suiza
    - Engines other than gasoline
      - 704 General works
      - 704.1 Atomic engines
      - 704.2 Diesel engines
      - 704.4 Steam engines for aircraft
      - 704.6 Model engines
      - 704.7 Fuel for aircraft engines
        - Cf. TL711.J4 Jettisoning of fuel
        - Cf. TL711.R4 Refueling
  - Propellers. Airscrews

## Aeronautics. Aeronautical engineering

## Propellers. Airscrews -- Continued

- 705 General works
- 706.A-Z Special, A-Z
- 706.A2 Abrasion
- 706.B3 Balancing. Flutter
- 706.E8 Etching
- Flutter see TL706.B3
- 706.I6 Interference
- 706.N6 Noise
- 706.P4 Performance. Performance calculation
- 706.P8 Pusher vs. tractor
- 706.S4 Slip
- 706.S5 Slip stream
- 706.S6 Specifications. Standards
- Standards see TL706.S6
- 706.S7 Strains and stresses
- 706.T4 Testing
- 706.T5 Thrust
- 706.V4 Vibration
- 707.A-Z Details and parts, A-Z
- 707.B6 Blade section and form
- 707.B7 Boss
- 707.G4 Gear
- 707.H8 Hub
- 707.P5 Pitch, Adjustable and controllable
- 707.S6 Spinner
- 707.T5 Tipping
- Nuclear power plants. Nuclear propulsion for aircraft
  - Cf. TL704.1 Atomic engines, propeller engine systems
  - Cf. TL783.5 Nuclear rockets, propulsion systems
- 708.A1 Periodicals, societies, etc.
- 708.A2-Z General works
- 708.3.A-Z By region or country, A-Z
- Jet propulsion. Jet engines
  - For rocket propulsion see TL780+
- 709 General works
- 709.3.A-Z Special types, A-Z
- 709.3.R3 Ramjet engines
- 709.3.S37 Scramjet engines
- 709.3.T8 Turbine-propeller engines
- 709.3.T82 Turbofan engines
- 709.3.T83 Turbojet engines
- 709.5.A-Z Details and parts of jet engines, A-Z
  - Air intakes or inlets see TL709.5.I5
  - 709.5.B4 Bearings
  - 709.5.B6 Blades
  - 709.5.C55 Combustion chambers
  - 709.5.C56 Compressors
  - 709.5.C57 Control systems
  - 709.5.C6 Cooling systems
  - 709.5.D5 Diffusers
  - 709.5.F8 Fuel systems
  - 709.5.H42 Heating regenerators
  - 709.5.I5 Intakes or inlets for air
  - 709.5.N68 Nozzles

- Aeronautics. Aeronautical engineering
  - Jet propulsion. Jet engines
    - Details and parts of jet engines, A-Z -- Continued
      - Roller bearings see TL709.5.B4
    - Starting devices
    - Supersonic intakes or inlets see TL709.5.I5
    - Thrust reversers
    - Turbines
  - Operation of airplanes. Flying
    - General works
      - Including textbooks and instruction books
    - Special, A-Z
      - Aerobatics see TL711.S8
      - Airspeed
      - Altitude flying
        - Cf. TL555 Physical and mental requirements for pilots
      - Special altitude flights
        - Arrange by date
      - Blind flight. Instrument flying
      - Bush flying
      - Cold weather operation
      - Cross-country flying see TL711.L7
      - Dispatching
      - Ditching
      - Dropping of cargo
      - Emergency maneuvers
      - Endurance flights
      - Ferrying
      - Formation flying, Military see UG632.2+
      - Holding patterns
      - Intercepting other aircraft
      - Instrument flying see TL711.B6
      - Jet flying
      - Jettisoning of fuel
      - Landing
        - Cf. TL696.L3 Radio
      - Loading
      - Long distance flying. Cross-country flying
      - Mountain flying
      - Multiengine flying see TL711.T85
      - Night flying
      - Ocean flying. Overwater flying
        - Overwater flying see TL711.O26
      - Refueling
      - Seaplane flying
      - Single heading
      - Stunt flying. Aerobatics
      - Taildragger flying
      - Takeoff
      - Twin-engine flying. Multiengine flying
    - Flight training
      - General works
      - Flight simulators and trainers

- Aeronautics. Aeronautical engineering
- Operation of airplanes. Flying
  - Flight training -- Continued
- 712.8 Computer flight games
  - For war games see U310+
  - Cf. GV1469.15+ Computer games
  - Cf. TL1088 Space flight computer simulation
- 713.A-Z Flying schools. By place, A-Z
- 713.5 Flying clubs
- Flying machines other than airplanes
  - Including experimental models, but not toy models
  - For drone aircraft guidance and control systems see TL589.4+
- 713.7 Lifting bodies
- Rotor aircraft
  - General works
- 714 Autogiros
- 715 Helicopters
  - Cf. TL685 Convertiplanes. Vertical takeoff and landing aircraft
  - Cf. UG1230+ Military helicopters
- 716.A1 Periodicals, societies, etc.
- 716.A2-Z General works
- 716.2 Juvenile works
- 716.5 Operation of helicopters
- 716.9.A-Z Special makes. By name of manufacturer, A-Z
- 717 Ornithopters. Winged flight
- 717.5 Personal propulsion units. Rocket belts. Jet belts
- 718 Other
- Special uses of airplanes
  - Civil aviation (Technology) see TL552
  - Transportation (Technology)
    - For economic aspects see HE9761+
- 720 General works
- 721.A-Z Special flights, A-Z
  - For collected flights over an individual country see TL521+
  - For collected flights overseas see TL531
  - Cf. TL539+ Biography
- 721.B3 Balbo
- 721.B5 Blériot
- 721.B7 Bremen
- 721.B83 Buck
- 721.C5 Chichester
- 721.C6 Cobham
- 721.C65 Costes
- 721.E3 Earhart
- Gatty and Post see TL721.P6
- 721.K5 Kingsford-Smith
- Lindbergh see TL540.L5
- McIntosh and Parer see TL721.P27
- 721.M35 McMillan-Kidby
- 721.M443 Miranda and Tejada
- 721.P27 Parer and McIntosh
- 721.P6 Post and Gatty
- 721.R54 Rodgers
- Rutan and Yeager see G445
- 721.S63 Smith, Dick
- 721.U58 U.S. Army Round-the-rim flight

- Aeronautics. Aeronautical engineering
  - Special uses of airplanes
    - Transportation (Technology)
      - Special flights, A-Z -- Continued
        - 721.U6 U.S. Army world flight
        - Yeager see TL551.5
  - 721.1 Exploration. Mountain climbing
    - For special localities see TL521+
    - Cf. G599 Aircraft for polar exploration
  - (721.2) Surveying and mapping
    - see TA593
  - (721.3) Aerial photography
    - see TR810
  - 721.4 Private flying
    - For sports flying see GV758+
  - Air meets
    - 721.5 General works
      - Races see GV759+
    - 721.6.A-Z Special meets, A-Z
  - Use of airplanes in various industries
    - 722 General works
      - (722.1) Agriculture
        - see S494.5.A3
      - 722.2 Fisheries and whaling
      - (722.3) Forestry, fire patrol
        - see SD387.A3
      - 722.4 Mining. Prospecting
      - 722.5 Use of airplanes for advertising
        - Including flying exhibits, flying signboards, voice of the air, skywriting, and distribution of literature
      - 722.8 Use of airplanes for humanitarian purposes. Lifesaving at sea
        - Cf. RA996.5+ Aeronautics and medicine
        - Cf. TL553.8 Search and rescue
    - 723 Government uses of airplanes
      - For airmail (general) see HE6238
      - For airmail (U.S.) see HE6496
      - For war see VG90+
    - Airplane industry (Technical aspects)
      - Including management
        - Cf. TL671.28 Manufacturing. Factory equipment and methods
    - 724 General works
      - For trade directories see TL512+
    - 724.5.A-Z Special companies, A-Z
    - Airways (Routes). Airports and landing fields. Aerodromes
      - Including air pilot guides
        - Cf. HE9797+ Air transportation
        - Cf. UG622+ Military aeronautics
        - Cf. VG90+ Naval aeronautics
    - 725.A1 Periodicals, societies, etc.
    - 725.A2-Z General works
    - 725.15 Juvenile works
    - 725.2 Specifications
    - 725.3.A-Z Special topics, A-Z
      - 725.3.A2 Access to airports
      - 725.3.A59 Airport aprons
      - 725.3.A6 Areas, Danger



Aeronautics. Aeronautical engineering  
 Airways (Routes). Airports and landing fields. Aerodromes  
 Special topics, A-Z -- Continued

- 725.3.B5 Bird control  
     For aircraft bird strikes see TL553.54
- 725.3.B8 Buildings  
     Cf. TL725.3.R4 Repair shops
- 725.3.C3 Camouflage
- 725.3.C6 Cold weather conditions
- 725.3.C63 Communication systems
- 725.3.C64 Control towers
- 725.3.D35 Defense measures. War damage
- 725.3.D4 Dispatching of airplanes  
     Cf. TL725.3.T7 Traffic control
- 725.3.D7 Drainage
- 725.3.E43 Electric equipment
- 725.3.E6 Equipment  
 Fire prevention and extinction see TH9445.A5  
 Fog control see TL557.F6
- 725.3.F73 Free flight
- 725.3.G6 Government operation and support
- 725.3.I6 Intra-airport transportation
- 725.3.L2 Landing aids  
     Cf. TL691.L3 Landing lights (Aircraft)  
     Cf. TL696.C75 Control tower display systems (Electronic)  
     Cf. TL696.L3 Landing aids (Electronic)  
     Cf. TL725.3.L5 Lighting (Airports)  
     Cf. TL725.3.T7 Air traffic control
- 725.3.L3 Landing fees
- 725.3.L5 Lighting
- 725.3.L6 Location
- 725.3.M16 Maintenance and repair
- 725.3.M2 Management
- 725.3.M3 Marking
- 725.3.M63 Meteorology see TL556+
- 725.3.N6 Models
- 725.3.N6 Noise
- 725.3.P3 Passenger accommodations
- 725.3.P35 Pavements
- 725.3.P5 Planning
- 725.3.P55 Pneumatic equipment
- 725.3.P67 Power plants
- 725.3.P7 Private aircraft
- 725.3.R3 Radiation safety
- 725.3.R4 Repair shops
- 725.3.R8 Runways
- 725.3.S34 Safety measures
- 725.3.S44 Security measures
- 725.3.S47 Signs and signboards
- 725.3.S5 Size
- 725.3.S6 Soils
- (725.3.T5) Time schedules, etc., for making timetables. Slot allocation  
     see HE9797.4.S56
- 725.3.T7 Traffic control  
     Cf. TL696.C75 Control tower display systems (Electronic)  
     Cf. TL696.R25 Radar air traffic control systems

- Aeronautics. Aeronautical engineering
- Airways (Routes). Airports and landing fields. Aerodromes
- Special topics, A-Z -- Continued
- War damage see TL725.3.D35
- 725.3.Z6 Zoning
- 725.5 Heliports
  - For special places see TL726+
- 725.6 Seaplane bases
  - For special places see TL726+
- 725.7 Floating airports
  - For special places see TL726+
- 725.8 Aircraft carriers
  - Cf. V874+ Vessels
- Special countries
- 726 General works
- 726.15 General special
  - Including Plymouth to Basra, and transpacific routes, etc.
- United States
- 726.2 General works
- 726.3.A-.W States, A-W
- 726.4.A-Z Cities, A-Z
- Other countries
- America (except United States)
- 726.5.A1 General works
- 726.5.A2-Z Individual countries, A-Z
  - Subarrange each country by Table T4a
- Europe
- 726.6.A1 General works
- 726.6.A2-Z Individual countries, A-Z
  - Subarrange each country by Table T4a
- Asia
- 726.7.A1 General works
- 726.7.A2-Z Individual countries, A-Z
  - Subarrange each country by Table T4a
- Africa
- 726.8.A1 General works
- 726.8.A2-Z Individual countries, A-Z
  - Subarrange each country by Table T4a
- 726.85 Australia
- 726.87 New Zealand
- 726.9 Pacific islands
- Beacons for aircraft
  - Cf. TL725.3.L5 Airport lighting
- 727 General works
  - Radio beacons see TL696.B4
- Hangars
- 730 General works
  - Cf. TH9445.A5 Fire prevention
- 730.1 General special
- 730.2 For airships
- 730.3 For airplanes
- 731 Mooring masts
- 732 Launching machinery. Catapults, etc.
- 733 Apparatus for picking up and delivering goods, etc., during flight

## Aeronautics. Aeronautical engineering -- Continued

## Parachutes

Historical and early works, including parachutes used from balloons for exhibition and other purposes

For sport parachuting see GV769.5+

- 750 General works
- 751.A-Z Special jumpers, A-Z
- Modern parachutes
- 752 General works
- 752.5 Juvenile works
- 753 General special
- 754.A-Z Special makes, A-Z
- 755 Personal narratives
- 758 Parachutes to carry airplanes

## Kites

For sport and competitions see GV769

- 759.A1 Periodicals, societies, etc.
- 759.A6-Z General works
- History
- 759.3 General works
- 759.4.A-Z By region or country, A-Z
- 759.5 Juvenile works
- 759.6.A-Z Special types of kites, A-Z
- 759.6.F54 Fighter kites
- 759.6.F58 Flute kites
- 759.6.P3 Parakites
- 759.7 Uses of kites (General)
  - Cf. QC879.3+ Meteorology
  - Cf. TR810 Photography from kites

## Gliders. Gliding and soaring

- 760.A1 Periodicals, societies, etc.
- General works
- 760.A2 Early to 1903
- 760.A3-Z 1903-
- 760.4.A-Z By region or country, A-Z
- 760.5 Air meets
- 761 General special
- 762 Design and construction
- 765 Operation of gliders. Launching. Gliding. Soaring
- 766 Equipment
- 769 Human powered aircraft

## Models

Including model airplanes for hobbyists

For experimental models prior to 1914 see TL670.5

Cf. GV760+ Flying and racing of model airplanes

- 770.A1 Periodicals, societies, etc.
- 770.A2-Z General works
- 772 Collectors and collecting
- Model testing see TL671.7
- Model rockets and space vehicles see TL844
- 774 Model gliders
- 775 Model airships
- 776 Model helicopters
- 777 Details and parts of models
  - Including propellers
- 778 Paper airplanes

- Rocket propulsion. Rockets
- 780 Periodicals, societies, etc.
- 780.5 Dictionaries and encyclopedias
- History
- 781 General works
- 781.5.A-Z Special projects, A-Z
- 781.5.B55 Blue Streak
- 781.5.S3 Saturn
- 781.8.A-Z By region or country, A-Z
- Biography
- 781.85.A1 Collective
- 781.85.A3-Z Individual, A-Z
- 782 General works
- 782.5 Popular works. Juvenile works
- 782.55 Pictorial works
- 782.6 Handbooks, manuals, etc.
- 782.7 Amateurs' manuals, etc.
- 782.75 Addresses, essays, lectures
- 782.8 Rocketry as a profession
- Model rockets see TL844
- Special types of rockets and propulsion
- Chemical rockets. Chemical propulsion systems
- 783 General works
- 783.3 Solid propellant rockets
- 783.4 Liquid propellant rockets
- 783.45 Hybrid propellant rockets
- 783.5 Nuclear rockets. Nuclear propulsion systems
- Electric rockets. Electric propulsion systems
- 783.54 General works
- 783.57 Photon rockets. Photon propulsion systems
- 783.6 Plasma rockets. Plasma propulsion systems
- 783.63 Ion rockets. Ion rocket propulsion
- 783.7 Beamed-energy propulsion
- 783.8 Hot water rockets. Hot water rocket propulsion
- 783.9 Solar sails
- 784.A-Z Special topics, A-Z
- 784.C6 Combustion
- 784.C63 Controls. Guidance systems
- 784.C65 Cooling
- 784.E4 Electronics
- 784.E86 Exhaust emissions
- 784.E9 Expansion joints
- 784.F8 Fuel systems
- 784.L3 Launching
- 784.N65 Nozzles
- 784.P9 Pyrotechnics
- 784.R4 Reliability
- 784.S7 Stability
- 784.S74 Staging
- 784.T4 Thrust
- 784.T5 Telemetry
- Manufacturing. Factory methods
- 784.3 General works
- 784.5.A-Z Special topics, A-Z
- 784.5.T4 Testing
- 784.5.W4 Welding

- Rocket propulsion. Rockets -- Continued
- 784.8 Materials
- 785 Fuel
- Rockets for special uses, A-Z
- 785.8.L3 Launch vehicles
- 785.8.S6 Sounding rockets
- Cf. QC879.4+ Meteorology
- Spaceships see TL795+
- Astronautics. Space travel
- Cf. UG1500+ Military astronautics. Space warfare
- 787 Periodicals, societies, etc.
- 787.5 Collected works (nonserial)
- 787.7 Abstracts
- 788 Dictionaries and encyclopedias
- 788.3 Directories
- 788.35 Patents
- 788.4 International cooperation
- History
- 788.5 General works
- 788.6 Space archaeology
- 788.7 Imaginary voyages
- Unidentified flying objects. Flying saucers
- Cf. BF2050+ Human-alien encounters
- Cf. BL65.U54 Religious aspects of unidentified flying objects
- Cf. CB156 Terrestrial evidence of interplanetary voyages
- 789.A1 Periodicals, societies, etc.
- 789.A2-Z General works
- 789.16 Dictionaries
- 789.2 Juvenile works
- 789.3 Personal narratives
- Including personal sightings
- By region or country
- United States
- 789.4 General works
- 789.5.A-Z By region or state, A-Z
- 789.6.A-Z Other regions or countries, A-Z
- 789.8.A-Z By country, region, etc., A-Z
- Under each country*
- .x *General works*
- .x2A-.x2Z *Special projects or programs, A-Z*
- e.g.
- United States
- 789.8.U5 General works
- 789.8.U6A-.U6Z Special projects or programs, A-Z
- 789.8.U6A5 Apollo
- 789.8.U6G4 Gemini
- 789.8.U6M3 Mariner
- 789.8.U6M4 Mercury
- 789.8.U6O75 Orion
- 789.8.U6P56 Pioneer
- 789.8.U6R3 Ranger
- 789.8.U6S5 Skylab
- 789.8.U6S9 Surveyor
- 789.8.U6V64 Viking Mars Program
- 789.8.U6X5 X-15 program
- Biography

- Astronautics. Space travel  
 Biography -- Continued  
 789.85.A1      Collective  
 789.85.A3-Z    Individual, A-Z  
 790            General works  
 791            Textbooks  
 793            Popular works. Juvenile works  
 793.5          Pictorial works  
 793.7          Anecdotes, facetiae, etc.  
 794            Handbooks, pocketbooks, tables, etc.  
 794.3          Laboratory manuals. Amateur experiments  
 794.5          Addresses, essays, lectures  
 794.7          Civilian use of outer space. Space tourism  
               Space vehicles. Spaceships  
               For specific aspects see TL874+  
 795            General works  
 795.3          Space probes  
 795.4          Microspacecraft  
               Reusable space vehicles. Space shuttles  
 795.5          General works  
 795.515        Juvenile works  
 795.7          Space colonies. Space communities  
 Artificial satellites  
               Cf. TL1080 Artificial satellite orbits  
 796.A1         Periodicals, societies, etc.  
 796.A2-Z       General works  
 796.3          Juvenile works  
               Small satellites see TL795.4  
 796.5.A-Z      By country, region, etc., A-Z  
               *Under each country:*  
               .x                    General works  
               .x2A-.x2Z            Special projects or programs, A-Z  
               e.g.  
               For individual planets, etc. see TL796.6.A+  
               United States  
 796.5.U5       General works  
 796.5.U6A-.U6Z   Special projects or programs, A-Z  
               e.g.  
 796.5.U6V3     Vanguard  
 796.6.A-Z      By planet, etc., A-Z  
 796.6.E2       Earth  
 796.6.M66      Moon  
 796.6.S8       Sun  
 796.8          Observers' handbooks  
               Space stations  
 797            General works  
 797.15         Juvenile works  
 798.A-Z        Special types by use, A-Z  
 798.G4         Geodetic satellites  
               Cf. QB343 Artificial satellites in geodesy  
 798.M4         Meteorological satellites  
               Cf. QC879.4+ Meteorology

- Astronautics. Space travel
  - Artificial satellites
    - Special types by use, A-Z -- Continued
    - 798.N3 Navigation satellites
      - Class here general works on navigation satellites, including the satellite component of the Global Positioning System. For special applications, see the subject, e. g. TA595.5, Satellite surveying; TL696.A77, Artificial satellites in air navigation; VK562, Artificial satellites in ship navigation
      - For general works on the Global Positioning System see G109.5
    - 798.S3 Scientific satellites
      - Cf. Q180.7 Astronautics in science
      - Cf. QB500.267+ Orbiting astronomical observatories
      - Telecommunication satellites see TK5104.2.A+
    - 798.T47 Tethered satellites
    - 799.A-Z Flights to special planets, etc. By planet, A-Z
      - Cf. QB600+ Planets
      - 799.J8 Jupiter
      - 799.M3 Mars
      - 799.M4 Mercury
      - 799.M6 Moon
      - 799.P69 Pluto
      - 799.S86 Sun
      - 799.V45 Venus
    - 844 Model rockets. Model space vehicles
    - Study and teaching
      - Cf. TL1085 Space flight training
      - 845 General works
      - Audiovisual aids
        - 845.5.A-.Z8 General works
        - 845.5.Z9 Catalogs of audiovisual materials
      - United States
        - 846 General works
        - 847.A-Z Special schools, A-Z
        - 848.A-Z Other countries, A-Z
      - 849 Problems, exercises, etc.
    - Astronautics as a profession
      - 850 General works
      - Qualifications for astronauts
        - 855 General works
        - 856 Physical and mental requirements for astronauts
          - Including tests
          - For clinical aspects see RC1120+
    - Research
      - 858 General works
      - Equipment. Laboratories
        - 859 General works
        - 860.A-Z Special, A-Z
        - 862.A-Z Special institutions, A-Z
      - 865 Technology transfer. Space spinoffs
      - 867 Accidents and their prevention. Space safety
      - 869 Specifications
    - Systems engineering
      - 870 General works
      - 872 Estimates. Quantities. Costs
      - 873 Manned space flight
    - Specific aspects of space vehicles

- Astronautics. Space travel
  - Specific aspects of space vehicles -- Continued
  - (874) General works
    - see TL795
  - 875 Design and construction
  - 885 Reliability
  - 900 Thermodynamics. Heat engineering
  - 901 Fires and fire prevention
  - 910 Structural dynamics
  - 915 Maintenance and repair
  - 917 Lubrication
  - 920 Testing
  - 940 Expandable space structures
  - 943 Planetary quarantine
  - 945 Sterilization
  - 946 Contamination
  - Materials
    - 950 Periodicals, societies, etc.
    - 953 General works
    - 954.A-Z Special, A-Z
      - Coatings see TL954.P35
    - 954.M47 Metals. Metallurgy
    - 954.P35 Paints and coatings
  - Astrodynamics. Flight mechanics. Orbital mechanics
    - Cf. QB349+ Astronomy
  - 1050 General works
  - 1055 Relativistic effects in astrodynamics. Relativistic rocket mechanics and dynamics
  - 1060 Atmospheric entry phenomena
    - Cf. TL3028 Reentry communications
  - Space navigation
    - Cf. TL3250+ Navigation systems. Guidance systems
  - 1065 General works
  - 1070 Astronautical charts, tables, etc. Logbooks
  - Space trajectories. Orbital transfer
    - 1075 General works
    - 1078 Data processing
      - Including computer programs
    - 1080 Artificial satellite orbits
  - 1082 Astronautical instruments
    - For instruments of special systems, see the system; e.g. for navigation systems see TL3250+
  - 1085 Space flight training
  - 1088 Space flight computer simulation
    - Cf. TL712.8 Computer flight games
  - Operation of space vehicles. Piloting
    - 1090 General works
    - 1095 Orbital rendezvous
    - 1096 Extravehicular activity. Space walk
    - Space mining see TN291.3+
    - 1097 Space robotics
    - Space vehicle propulsion systems see TL780+
    - 1098 Space tools
    - Electric equipment on space vehicles
      - 1100 General works
      - 1102.A-Z Special, A-Z
        - 1102.B3 Batteries
        - 1102.G4 Generators



- Astronautics. Space travel
  - Electric equipment on space vehicles
    - Special, A-Z -- Continued
    - 1102.I57 Insulators
    - 1102.N8 Nuclear electric powerplants
      - Including Project SNAP
      - Project SNAP see TL1102.N8
    - 1102.T4 Thermoelectric devices
    - 1102.W57 Wiring
  - 1200 Optical equipment on space vehicles
  - Environmental engineering in space. Space environment
    - 1489 General works
    - 1490 Radiation shielding on space vehicles
    - 1492 Electrostatic charging
    - 1495 Space simulators
    - 1496 Flow of fluids. Fluid dynamics
    - 1499 Space debris
    - Life support systems. Human engineering. Human environment equipment and testing
      - 1500 General works
      - 1530 Cabin atmosphere
      - 1550 Space suits
      - 1555 Seats
      - 1560 Food
      - 1565 Water supply
        - Test and training equipment
          - 1570 General works
          - 1572 Space cabin simulators
          - 1575 Weightlessness simulators
  - Astrionics. Electronic equipment on space vehicles
    - 3000.A1 Periodicals, societies, etc.
    - 3000.A3-Z General works
    - Telecommunication, guidance and control systems for space vehicles
      - Communication methods and equipment
        - 3025 General works
        - 3026 Deep Space Network
        - 3028 Reentry communications. Plasma sheath effects
        - 3035 Radio
        - 3040 Television
      - Navigation systems. Guidance systems
        - 3250 General works
          - Theory of navigation see TL1065+
        - 3252 Inertial navigation systems
        - 3255 Star trackers
        - 3260 Attitude control systems
        - 3270 Pointing systems
        - 3280 Command control systems
        - 3285 Space-based radar
    - Ground support systems, operations and equipment
      - 4000 Periodicals, societies, etc.
      - 4015 General works
        - Launching bases. Launch complexes
          - Including launch facilities
        - 4020 General works
        - 4024 Planning. Location
          - By region or country
            - United States

- Astronautics. Space travel
  - Ground support systems, operations and equipment
    - Launching bases. Launch complexes
      - By region or country
        - United States -- Continued
          - 4026 General works
          - 4027.A-Z By region or state, A-Z
            - Under each state:*
              - .x *General works*
              - .x2A-.x2Z *Special bases. By name, A-Z*
- 4028.A-Z Other regions or countries, A-Z
- 4030 Space tracking
- Command control equipment
  - 4040 General works
  - 4045 Mobile facilities
- 4050 Ground transportation
- Extraterrestrial roving vehicles see TL475+

- Mining engineering. Metallurgy  
 Including mineral industries  
 Periodicals and societies  
 Arrange by language of publication
- 1.A1 International or polyglot  
 1.A2-Z English  
 2 French  
 3 German  
 4 Other languages (not A-Z)  
 5 Congresses  
 Exhibitions. Museums  
 6.A1 General works  
 6.A2-Z By region or country, A-Z  
 Subarrange each country by Table T4b
- 7 Collected works (nonserial)  
 Dictionaries and encyclopedias  
 9 General works  
 10 Polyglot dictionaries  
 12 Directories  
 (13) Yearbooks  
 see TN1+
- History and description  
 15 General works  
 16 Ancient  
 17 Medieval  
 Modern  
 18 To 1800  
 19 1800-  
 21-127 Country divisions (Table T1a)  
 Add country number in table to TN0  
 Including government reports on mineral resources and economic geology
- Biography  
 139 Collective  
 140.A-Z Individual, A-Z
- General works  
 144 Early to 1800  
 145 1800-  
 146 Elementary works  
 147 Popular works  
 148 Juvenile works  
 151 Pocketbooks, tables, examinations, questions, etc.  
 153 General special  
 155 Addresses, essays, lectures  
 160 Mining engineering as a profession
- Study and teaching  
 165 General works  
 America  
 171 General works  
 United States  
 173 General works  
 174.A-W States, A-W  
 175.A-Z Cities, A-Z  
 Canada  
 176 General works  
 177.A-Z Special provinces, A-Z  
 179 Latin America (General)

- Study and teaching -- Continued
- Mexico
    - 180 General works
    - 181.A-Z Special divisions, A-Z
  - Central America
    - 182 General works
    - 183.A-Z Special countries, A-Z
  - West Indies
    - 185 General works
    - 186.A-Z Special islands, A-Z
  - South America
    - 188 General works
    - 189.A-Z Special countries, A-Z
  - Europe
    - 191 General works
    - 192.A-Z Special countries, A-Z
  - Asia
    - 194 General works
    - 195.A-Z Special countries, A-Z
  - Africa
    - 197 General works
    - 198 South Africa
    - 199.A-Z Other countries, A-Z
  - Australia
    - 201 General works
    - 202.A-Z Special states, A-Z
  - New Zealand
    - 203 Pacific islands
  - Pacific islands
    - 204 General works
    - 205.A-Z Special islands, A-Z
  - 207 Metallurgical research
  - Special schools
    - United States
      - 210.A-Z General schools. By name of school, A-Z
      - 211 Correspondence schools
      - 213.A-Z Other countries. By place of school, A-Z
  - Mining laws and legislation
    - see class K
  - (257) Patents
    - see class K
  - 260 Economic or applied geology and mineralogy
    - For special countries see TN21+
  - 263 Mineral deposits. Metallic ore deposits
    - For special countries see TN21+
    - For metallic ore deposits of particular metals see TN400+
    - For nonmetallic mineral deposits of particular minerals see TN799.5+
  - 263.5 Energy minerals
    - Cf. TJ163.13+ Power resources
  - 264 Marine mineral resources
    - For mining resources see TN291.5
  - 265 Metallic ores (General)
  - Geophysical surveying
    - 269 General works
    - Electric logging
      - 269.5 General works
      - 269.55 Induction logging

	Geophysical surveying -- Continued
269.7	Radioactive prospecting
	Seismic prospecting
269.8	General works
269.83	Geometrical diffraction
269.84	Seismic reflection method
269.85	Seismic refraction method
269.86	Vertical seismic profiling
269.88	Vibroseis
269.883	Self-potential method
269.885	Water analysis. Sediment analysis
	Prospecting
	Cf. TN560 Ore sampling
270.A1	Periodicals, societies, congresses, etc.
270.A2-Z	General works
271.A-Z	Special minerals, etc., A-Z
271.A2	Rare metals. Rare earths (General)
271.A47	Aggregates
271.B3	Bauxite
271.B4	Beryllium
271.B6	Boron
271.C47	Chlorite
271.C5	Chromium
271.C53	Clay
271.C58	Coal
271.C6	Copper
271.D5	Diamonds
271.F6	Fluorspar (Fluorite)
271.G6	Gold
271.G7	Graphite
271.H43	Heavy minerals
271.I7	Iron
271.K2	Kaolin
271.K55	Kimberlite
271.L4	Lead
	Magnetite see TN271.I7
271.M3	Manganese
271.M4	Mercury
271.M5	Mica
271.N5	Nickel
271.N63	Nonmetallic minerals
271.P27	Peat
271.P3	Pegmatites
271.P4	Petroleum
271.P45	Phosphates
271.P56	Platinum
271.P6	Potassium
271.P9	Pyrites
271.Q4	Quartz
271.R33	Radioactive minerals
	Rare metals, rare earths see TN271.A2
271.S55	Silver
271.S88	Sulfides
271.S9	Sulfur
271.T3	Tantalum
271.T4	Thorium

- Prospecting
- Special minerals, etc., A-Z -- Continued
- 271.T5 Tin
- 271.T55 Titanium
- 271.T8 Tungsten
- 271.U7 Uranium
- 271.Z5 Zinc
- Mine examination and valuation. Mine selling
- 272 General works
- 272.7 Statistical methods. Kriging
- 273 Mine surveying. Mine maps
- Construction of mine structures, buildings, etc. see TH4561
- 274 Mine organization and management
  - For the organization and management of special types of mines see TN400+
- Practical mining operations
- 275.A1 Periodicals, societies, etc.
- 275.A2-Z General works
- 276 Automation
- 277 Excavating and quarrying
- 278 Hydraulic mining
- 278.3 In situ processing (Mining)
  - Cf. TP759 Underground coal gasification
- 278.5 Solution mining
- 279 Drilling and blasting
  - For use of explosives in coal mines see TN803
- 281 Deep boring
- 281.5 Borehole mining
- 283 Shaft sinking
- 285 Tunneling, drifting
- 286 Longwall mining
- 287 Stoping
- Ground control. Ground support
- 288 General works
- 289 Timbering
- 289.3 Mine roof bolting
- 289.5 Concrete mine supports
- 289.8 Pillaring
- 290 Mine filling
- 291 Open working. Strip mining
  - Cf. QH545.S84 Ecology
  - Cf. TD195.S75 Environmental technology
- Mining in extreme environments
- 291.24 General works
- 291.26 Cold weather conditions
- Outer space. Space mining
- 291.3 General works
- 291.35 Lunar mining
- 291.5 Underwater mining. Ocean mining
  - Cf. TD195.O25 Environmental technology
- 292 General special
- 295 Safety measures
  - Cf. HD7269.A+ Labor hygiene
- 297 Rescue work, stations, first aid, etc.
- 300 Mine sanitation
- Ventilation of mines
- 301 General works

- Ventilation and lighting of mines -- Continued
- 303 Ventilating appliances and machines
- 304 Stoppings
  - Gases in mines. Firedamp
    - Cf. TN844+ Coalbed methane
- 305 General works
- 306 Gases resulting from use of explosives
- Lighting of mines
- 306.5 General works
- 307 Miners' lamps. Safety lamps
- 309 Electric lighting of mines
  - Cf. TK4399.C6 Electric lighting of coal preparation plants
- Dangers and accidents in mines and quarries
  - Cf. TN802+ Coal mines and mining
- 311 General works
- 312 Mine dusts
- 313 Explosions
- 315 Fires
- 317 Falls of roof, etc.
- 318 Flooding
- 318.5 Spoil bank failures
- 319 Mine subsidences
- 319.5 Tailings dam failures
- 320 Machinery
- Mine drainage
- 321 General works
- 325 Mine pumps
- Mine transportation, haulage and hoisting
- 331 General works
- 332 Aerial tramways
  - Cf. TJ1386 General transportation
- 333 Underground roads
- 335 Mechanical haulage
- 336 Mine railroads, tracks, etc.
- 337 Electric mine locomotives and their use
- 338 Gasoline engines
- Hoists and elevators
  - General works
- 339 General works
- 340.A-Z Special apparatus. By place, A-Z
- 341 Surface transportation
- 342 Mine and ore cars
- 343 Electrical engineering and equipment
  - For electric lighting of mines see TN309
- 344 Mine communication systems
- Mining machinery, tools, appliances, etc.
  - For coal mining machinery see TN813+
  - Cf. TN320 Mining accidents
- 345 General works
- 347 Catalogs
- 380.A-Z General mining and smelting companies, A-Z
- Ore deposits and mining of particular metals
  - Including mining and smelting companies
  - For extraction of particular metals from their ores, see TN703-TN799
  - For prospecting see TN270+
- Iron ore deposits and mining
  - General works
- 400

## Ore deposits and mining of particular metals

## Iron ore deposits and mining -- Continued

- 401 General special
- 402.A-Z Individual ores, A-Z  
Prefer classification by country
- 402.H4 Hematite
- 402.M3 Magnetite
- 402.S5 Siderite
- 402.T3 Taconite
- Special countries
- America
- 403.A1 General works  
United States
- 403.A5 General works
- 403.A6-.W States, A-W
- 403.Z6A-.Z6Z Special companies. By name, A-Z
- 404.A-Z Other countries, A-Z  
Subarrange each country by Table T4a
- Europe
- 405.A1 General works
- 405.A4-Z Special countries, A-Z  
Subarrange each country by Table T4a
- Asia
- 406.A1 General works
- 406.A4-Z Special countries, A-Z  
Subarrange each country, island, etc., by Table T4a
- Africa
- 407.A1 General works
- 407.A4-Z Special countries, A-Z  
Subarrange each country, island, etc., by Table T4a
- Australia, Oceania, etc.
- 408.A1 General works
- 408.A4-Z Special countries or islands, A-Z  
Subarrange each country or island by Table T4a
- 409.A-Z Companies outside of United States. By name of company, A-Z  
For special companies in the United States see TN403.Z6A+
- Gold and silver ore deposits and mining. Precious metals
- 410 General works
- 411 General special
- Special countries
- America
- 413.A1 General works  
United States
- 413.A5 General works
- 413.A6-.W States, A-W
- 413.Z6A-.Z6Z Special companies. By name, A-Z
- 414.A-Z Other countries, A-Z  
Subarrange each country by Table T4a
- Europe
- 415.A1 General works
- 415.A4-Z Special countries, A-Z  
Subarrange each country by Table T4a
- Asia
- 416.A1 General works
- 416.A4-Z Special countries, A-Z  
Subarrange each country by Table T4a



## Ore deposits and mining of particular metals

## Gold and silver ore deposits and mining. Precious metals

## Special countries -- Continued

## Africa

- 417.A1 General works  
 417.A4-Z Special countries, A-Z  
 Subarrange each country by Table T4a

## Australia, Oceania, etc.

- 418.A1 General works  
 418.A4-Z Special countries or islands, A-Z  
 Subarrange each country or island by Table T4a

- 419.A-Z Companies outside of United States. By name of company, A-Z  
 For special companies in the United States see TN413.Z6A+

## Gold ore deposits and mining

- 420 General works  
 421 Hydraulic and placer mining  
 422 Other methods  
 Including gold dredging

## Special countries

## America

- 423.A1 General works  
 United States  
 423.A5 General works  
 423.A6-W States, A-W  
 423.Z6A-.Z6Z Special companies. By name, A-Z  
 424.A-Z Other countries, A-Z  
 Subarrange each country by Table T4a

## Europe

- 425.A1 General works  
 425.A4-Z Special countries, A-Z  
 Subarrange each country by Table T4a

## Asia

- 426.A1 General works  
 426.A4-Z Special countries, A-Z  
 Subarrange each country by Table T4a

## Africa

- 427.A1 General works  
 427.A4-Z Special countries, A-Z  
 Subarrange each country by Table T4a

## Australia, Oceania, etc.

- 428.A1 General works  
 428.A4-Z Special countries or islands, A-Z  
 Subarrange each country or island by Table T4a

- 429.A-Z Companies outside of United States. By name of company, A-Z  
 For special companies, United States see TN423.Z6A+

## Silver ore deposits and mining

- 430 General works  
 431 General special  
 432.A-Z Individual ores, A-Z  
 Prefer classification by country

- 432.S7 Stephanite

## Special countries

## America

- 433.A1 General works  
 United States  
 433.A5 General works



## Ore deposits and mining of particular metals

## Copper ore deposits and mining

## Special countries

Australia, Oceania, etc. -- Continued

448.A1

General works

448.A4-Z

Special countries or islands, A-Z

Subarrange each country or island by Table T4a

449.A-Z

Companies outside of United States. By name of company, A-Z

For special companies in the United States see TN443.Z6A+

## Lead ore deposits and mining

450

General works

451

General special

452.A-Z

Individual ores, A-Z

Prefer classification by country

452.C4

Cerussite

452.G3

Galena

## Special countries

## America

453.A1

General works

United States

453.A5

General works

453.A6-.W

States, A-W

453.Z6A-.Z6Z

Special companies. By name, A-Z

454.A-Z

Other countries, A-Z

Subarrange each country by Table T4a

## Europe

455.A1

General works

455.A4-Z

Special countries, A-Z

Subarrange each country by Table T4a

## Asia

456.A1

General works

456.A4-Z

Special countries, A-Z

Subarrange each country by Table T4a

## Africa

457.A1

General works

457.A4-Z

Special countries, A-Z

Subarrange each country by Table T4a

## Australia, Oceania, etc.

458.A1

General works

458.A4-Z

Special countries or islands, A-Z

Subarrange each country or island by Table T4a

459.A-Z

Companies outside of United States. By name of company, A-Z

For special companies in the United States see TN453.Z6A+

## Mercury ore deposits and mining

460

General works

461

General special

462.A-Z

Individual ores, A-Z

Prefer classification by country

462.C5

Cinnabar

## Special countries

## America

463.A1

General works

United States

463.A5

General works

463.A6-.W

States, A-W

463.Z6A-.Z6Z

Special companies. By name, A-Z

- Ore deposits and mining of particular metals
  - Mercury ore deposits and mining
    - Special countries
      - America -- Continued
      - 464.A-Z Other countries, A-Z
        - Subarrange each country by Table T4a
      - Europe
        - 465.A1 General works
        - 465.A4-Z Special countries, A-Z
          - Subarrange each country by Table T4a
      - Asia
        - 466.A1 General works
        - 466.A4-Z Special countries, A-Z
          - Subarrange each country by Table T4a
      - Africa
        - 467.A1 General works
        - 467.A4-Z Special countries, A-Z
          - Subarrange each country by Table T4a
      - Australia, Oceania, etc.
        - 468.A1 General works
        - 468.A4-Z Special countries or islands, A-Z
          - Subarrange each country by Table T4a
      - 469.A-Z Companies outside of United States. By name of company, A-Z
        - For special companies, United States see TN463.Z6A+
  - Tin ore deposits and mining
    - 470 General works
    - 471 General special
    - 472.A-Z Individual ores, A-Z
      - Prefer classification by country
    - 472.C3 Cassiterite
    - Special countries
      - America
        - 473.A1 General works
          - United States
            - 473.A5 General works
            - 473.A6-.W States, A-W
            - 473.Z6A-.Z6Z Special companies. By name, A-Z
          - 474.A-Z Other countries, A-Z
            - Subarrange each country by Table T4a
        - Europe
          - 475.A1 General works
          - 475.A4-Z Other countries, A-Z
            - Subarrange each country by Table T4a
        - Asia
          - 476.A1 General works
          - 476.A4-Z Other countries, A-Z
            - Subarrange each country by Table T4a
        - Africa
          - 477.A1 General works
          - 477.A4-Z Other countries, A-Z
            - Subarrange each country by Table T4a
        - Australia, Oceania, etc.
          - 478.A1 General works
          - 478.A4-Z Special countries or islands, A-Z
            - Subarrange each country or island by Table T4a

- Ore deposits and mining of particular metals
  - Tin ore deposits and mining
    - Special countries -- Continued
    - 479.A-Z Companies outside of United States. By name of company, A-Z
      - For special companies in the United States see TN473.Z6A+
    - Zinc ore deposits and mining
      - 480 General works
      - 481 General special
      - 482.A-Z Individual ores, A-Z
        - Prefer classification by country
      - 482.S6 Sphalerite
      - Special countries
        - America
          - 483.A1 General works
          - United States
            - 483.A5 General works
            - 483.A6-.W States, A-W
            - 483.Z6A-.Z6Z Special companies. By name, A-Z
          - 484.A-Z Other countries, A-Z
            - Subarrange each country by Table T4a
        - Europe
          - 485.A1 General works
          - 485.A4-Z Other countries, A-Z
            - Subarrange each country by Table T4a
        - Asia
          - 486.A1 General works
          - 486.A4-Z Other countries, A-Z
            - Subarrange each country by Table T4a
        - Africa
          - 487.A1 General works
          - 487.A4-Z Other countries, A-Z
            - Subarrange each country by Table T4a
        - Australia, Oceania, etc.
          - 488.A1 General works
          - 488.A4-Z Special countries or islands, A-Z
            - Subarrange each country or island by Table T4a
      - 489.A-Z Companies outside of United States. By name of company, A-Z
        - For special companies, United States see TN483.Z6A+
    - Other metals, A-Z
      - Class individual ores of particular metals with the metal
      - 490.A2 Rare metals. Rare earths (General)
      - 490.A3 Radioactive minerals
      - 490.A5 Aluminum. Bauxite
      - 490.A6 Antimony
      - 490.A8 Arsenic
      - 490.B2 Barium
      - Bauxite see TN490.A5
      - 490.B4 Beryllium
      - 490.B6 Bismuth
      - 490.C2 Cadmium
      - 490.C4 Chromium
      - 490.C6 Cobalt
      - 490.G4 Germanium
      - 490.I6 Indium
      - 490.L5 Lithium
      - 490.M2 Magnesium

## Ore deposits and mining of particular metals

## Other metals, A-Z -- Continued

- 490.M3 Manganese
- 490.M7 Molybdenum
- 490.N6 Nickel
- 490.N65 Niobium
- 490.P7 Platinum and platinum group
- 490.R3 Radium
- 490.R48 Rare earths and metals see TN490.A2
- 490.R8 Rubidium
- 490.S4 Scandium
- 490.S8 Strontium
- 490.T2 Tantalum
- 490.T5 Tellurium
- 490.T55 Thorium
- 490.T6 Titanium
- 490.T9 Tungsten (Wolfram)
- 490.U7 Uranium
  - Cf. TN490.A3 Radioactive minerals
- 490.V2 Vanadium
- 490.Z5 Zirconium
- 495.A-Z Metallic compounds, A-Z
- 495.S9 Sulfides
- Ore dressing and milling
  - For specific ores prefer classification by ore; see TN538.A+
- 496 Periodicals. Societies. Serials
- 497 Congresses
- 500 General works
- 501 Addresses, essays, lectures
- 502 Dictionaries and encyclopedias
- 504 Plants and equipment
- Milling machinery
  - Cf. TJ1345 Mechanical engineering
- 505 General works
- 507 Trade catalogs
- 510 Crushing. Rolls, stamps, breakers
- 515 Screening and sorting. Screens, classifiers
- Concentrating. Jigs, tables, vanners
- 520 General works
- 523 Flotation
- 525 Slime treatment
- 530 Magnetic separation
- 531 Dielectric separation
- 535 General special
  - Including dewatering
- 538.A-Z Individual ores, A-Z
- 538.A55 Aluminum
- 538.A57 Antimony ores
- 538.C57 Chromium
- 538.C66 Copper
- 538.C9 Cyanite
- 538.G64 Gold
- 538.I7 Iron
- 538.M35 Manganese
- 538.N6 Nonferrous metals

## Ore deposits and mining of particular metals

## Ore dressing and milling

## Individual ores, A-Z -- Continued

538.P43 Phosphates  
 538.P53 Platinum  
 538.P6 Potassium  
 538.S84 Sulfides  
 538.T55 Tin  
 538.T57 Titanium  
 538.T74 Troilite  
 538.U7 Uranium

## Assaying

Cf. HG325+ Money

550 General works  
 555 General special  
 560 Sampling of ores  
     Cf. TN272+ Mine examination and valuation  
 565 Metallurgical analysis  
 Metallurgical and assay laboratories  
     General works  
 570 Special laboratories. By place, A-Z  
 571.A-Z Assaying apparatus  
 575 Assaying of special substances, A-Z  
 580.A-Z Including the analysis of ores  
 580.C5 Chromium  
 580.C64 Copper  
 580.G6 Gold and gold ores  
 580.H43 Heavy metals  
 580.I8 Iron and iron ores  
 580.M3 Manganese  
 580.M4 Mercury  
 580.N6 Nonferrous metals  
 580.P7 Platinum  
 580.P74 Precious metals  
 580.R48 Rhenium  
 580.S5 Silver  
 580.T5 Tin ores  
 580.T73 Trace elements

## Metallurgy

Cf. TA459+ Properties of metals

Cf. TS200+ Metal manufactures

600 Periodicals, societies, etc.  
 605 Congresses  
 607 Collected works (nonserial)  
 609 Dictionaries and encyclopedias  
 Communication of metallurgical information  
 610 General works  
 610.5 Metallurgical literature  
 612 Directories  
 History  
 615 General works  
 616 Ancient  
 617 Medieval  
 618 Modern  
 619 19th century  
 620 20th century

## Metallurgy -- Continued

- Special countries
- 621 America
  - United States
- 623 General works
- 624.A-.W States, A-W
  - Canada
    - 626 General works
  - 627.A-Z Special divisions, A-Z
  - 629 Latin America (General)
    - Mexico
      - 630 General works
      - 631.A-Z Special divisions,A-Z
    - Central America
      - 632 General works
      - 633.A-Z Special countries, A-Z
    - West Indies
      - 635 General works
      - 636.A-Z Special islands, A-Z
    - South America
      - 638 General works
      - 639.A-Z Special countries, A-Z
    - Europe
      - 641 General works
      - 642.A-Z Special countries, A-Z
    - Eurasia
      - 643 Asia
        - 644 General works
        - 645.A-Z Special countries, A-Z
      - Africa
        - 647 General works
        - 648 South Africa
        - 649.A-Z Special countries, A-Z
      - Australia
        - 651 General works
        - 652.A-Z By state, A-Z
      - Pacific islands
        - 654 General works
        - 655.A-Z Special islands, A-Z
  - Biography see TN139+
  - General works
    - 664 Early to 1800
    - 665 1800-
    - 667 Popular works. Juvenile works
    - 669 Laboratory manuals
    - 671 Pocketbooks, tables, etc.
    - 672 Heat treatment of metals
    - 673 General special
    - 675 Addresses, essays, lectures
    - 675.3 Study and teaching
      - Cf. TN207 Metallurgical research
    - 675.4 Information services
    - Metallurgical plants
      - 675.5 General works
      - 675.7 Management



## Metallurgy

## Metallurgical plants -- Continued

## Accidents and their prevention. Safety measures

Cf. HD7269.A+ Labor hygiene

676.A1

General works

676.A3

United States

676.A5-Z

Other countries, A-Z

## Special equipment

## Metallurgical furnaces

677

General works

677.5

Refractory materials

677.7

Fuel

678

Plasma jets

678.5

Reagents

## Electrometallurgy

For applications to special metals, see the metal, e.g. TN706, Iron and steel

Cf. TS670+ Electroplating

681

Periodicals, societies, etc.

683

Congresses

685

General works

686

General special

686.5.A-Z

Special processes, A-Z

686.5.E4

Electroslag process

686.5.V3

Vacuum metallurgy

686.5.Z6

Zone melting

Cf. TP156.Z6 Chemical engineering

687

Special equipment

Including electric furnaces

## Hydrometallurgy

688

General works

688.3.A-Z

Special processes, A-Z

688.3.B33

Biotechnology

Including bacterial leaching

688.3.H4

Heap leaching

688.3.I65

Ion exchange process

688.5

## Pyrometallurgy

## Metallography. Physical metallurgy

Cf. QC176+ Solid state physics

Cf. QD478 Solid state chemistry

Cf. QD506+ Surface chemistry

Cf. QD901+ Crystallography

Cf. TA483+ General properties of alloys

Cf. TS650 Manufacture of alloys

689

Periodicals, societies, etc.

689.2

Congresses

689.4

Dictionaries and encyclopedias

690

General works

690.2

Addresses, essays, lectures

690.4

Handbooks, manuals, etc.

Study and teaching

690.6

General works

690.65

Fieldwork

690.7

Metallographic specimens

690.8

Recrystallization

693.A-Z

Special metals, A-Z

Including alloys

## Metallurgy

## Metallography. Physical metallurgy

## Special metals, A-Z -- Continued

693.A4	Alkali metals
693.A5	Aluminum
693.A54	Americium
693.B4	Beryllium
693.B5	Bismuth
693.B6	Boron alloys
693.C5	Chromium
693.C8	Cobalt
693.C9	Copper (Bronze)
693.F7	Friction metals
693.G6	Gold
693.H4	Heat resistant metals
693.I7	Iron and steel
693.L4	Lead
	Light metals and alloys see TN693.N6
693.M3	Magnesium
693.M35	Manganese
693.M38	Metallic composites
693.M4	Metallic glasses
	Mischmetal see TN693.R3
693.M64	Molybdenum
693.N5	Nickel
693.N6	Nonferrous metals
693.P3	Palladium
693.P55	Platinum
693.P7	Precious metals
693.R3	Rare earth metal alloys
	Including Mischmetal
	Refractory transition metal compounds see TN693.T7
693.R45	Rhenium
693.S5	Silver
693.S9	Superconductors
693.T34	Tantalum
693.T4	Tellurium
693.T45	Thorium
693.T5	Titanium
693.T7	Transition metal compounds
	Including refractory transition metal compounds
693.T94	Tungsten
693.U7	Uranium
693.V3	Vanadium
693.Z5	Zirconium
	Powder metallurgy
	Cf. TS245 Manufactures
695	General works
697.A-Z	Special metals, A-Z
697.A47	Aluminum
697.C65	Copper
697.H4	Heat resistant alloys
697.I7	Iron and steel
697.T5	Titanium
697.Z54	Zinc
698	Mechanical alloying

- Metallurgy -- Continued
- 700 Metallurgy of heat resistant alloys
- Metallurgy of ferrous metals
  - Iron and steel
    - Cf. TA464+ Properties
    - Cf. TS300+ Manufactures
  - Periodicals and societies see TS300
- 701.5 Congresses
- 702 Dictionaries and encyclopedias
- Directories see TS301
- 703 History
- 704.A-Z Special countries, A-Z
  - Subarrange each country by Table T4a
- 705 General works
- 706 Electric processes
- 706.5 Pyrometallurgy
- 707 General special
  - Including slag
- 708 Patents
- 709 Alpha iron
- Cast iron. Pig iron
  - 710 General works
  - Blast furnaces
    - 713 General works
    - 715 Hot blast. Dry-air blast
      - Cf. TS231 Cupola furnaces
    - 718 Utilization of waste heat, gas, etc.
  - 719 Malleable cast iron
  - 719.5 Ductile iron
- Wrought iron
  - 720 General works
  - 723 Direct processes
  - 725 Refinery processes. Puddling and puddling furnaces
  - 727 Sponge iron
- Steel
  - 730 General works
  - 731 General special
    - Including temperature measurements
  - 732 Popular works. Juvenile works
  - Special processes
    - 733 Direct processes
    - 734 Cementation processes
    - 735 Crucible process
    - Bessemer process
      - 736 General works
      - 737 Acid Bessemer process
      - 738 Basic Bessemer process
    - Open hearth or Siemens process
      - 740 General works
      - 741 Acid open hearth process
      - 742 Basic open hearth process
    - 745 Electric furnace processes
    - 746 Ladle metallurgy
    - 747 Oxygen steelmaking
    - 750 Other processes. Continuous ingot casting, etc.
  - Heat treatment

## Metallurgy

## Metallurgy of ferrous metals

## Iron and steel

## Steel

## Heat treatment -- Continued

- 751 General works
  - 752.A-Z Special processes, A-Z
  - 752.A5 Annealing
  - 752.C3 Case hardening. Nitriding
  - 752.C5 Chromizing
  - 752.F4 Flame hardening
  - 752.I5 Induction hardening
  - 752.Q4 Nitriding see TN752.C3
  - 752.S8 Quenching
  - 752.T4 Surface hardening
  - 752.T54 Tempering
  - 755.A-Z Thermomechanical treatment
- Special plants and works, A-Z
- Iron and steel alloys
- Class here production only
  - For properties, strength, etc. see TA464+
  - For microscopic examination see TN689+
- 756 General works
  - 757.A-Z Special alloys, A-Z
  - 757.B6 Aluminum see TN775
  - 757.C35 Boron steel
  - 757.C48 Calcium steel
  - 757.C49 Chrome-manganese steel
  - 757.C5 Chrome-nickel steel
  - 757.F25 Chrome steel. Stainless steel
  - 757.F3 Ferrocromium
  - 757.F33 Ferromanganese
  - 757.F4 Ferronickel
  - 757.M3 Ferrosilicon
  - 757.M7 Manganese steel
  - 757.N5 Molybdenum steel
  - 757.N6 Nickel steel
  - 757.N66 Nickel chromium alloys
  - 757.S45 Nitrogen
  - 757.S7 Semikilled steel
  - 757.T5 Spiegel iron
  - 757.T9 Stainless steel see TN757.C5
  - 757.U7 Titanium steel
  - 757.V3 Tungsten steel
  - 757.V3 Uranium steel
  - 757.V3 Vanadium steel

## Metallurgy of nonferrous metals

- 758 General works
  - 758.3 Heat treatment
  - 758.4.A-Z Individual plants and works, A-Z
- Precious metals
- 759 General works
  - 760 Gold and silver
  - 761 General works
  - 761.5 General special
  - 761.5 Popular works

## Metallurgy

## Metallurgy of nonferrous metals

## Precious metals

## Gold and silver -- Continued

761.6	Juvenile works
762	Milling
	Special processes
763	Amalgamation
765	Chlorination
767	Cyanide process
768	Electric processes
769	Other special processes
770	Silver and lead
	For lead alone see TN785

## Light metals

773	General works
775	Aluminum and its alloys
780	Copper
785	Lead
790	Mercury
793	Tin
796	Zinc

## Minor metals

798	Collectively
799.A-Z	Special metals, A-Z
799.A6	Antimony
799.B4	Beryllium
799.B5	Bismuth
799.C2	Cadmium
799.C25	Calcium
799.C4	Cesium
799.C5	Chromium
799.C6	Cobalt
799.G3	Gallium
799.G4	Germanium
799.I5	Indium
799.L57	Lithium
799.M2	Magnesium
799.M3	Manganese
799.M7	Molybdenum
799.N47	Neodymium
799.N5	Neptunium
799.N6	Nickel
799.N7	Niobium
799.P34	Palladium
799.P7	Platinum
799.P74	Plutonium
799.R37	Rare earth metal alloys
799.R45	Rhenium
799.R5	Rhodium
	Selenium see TN948.S4
799.T3	Tantalum
799.T4	Thorium
799.T5	Titanium
799.T9	Tungsten
799.U7	Uranium

- Metallurgy
  - Metallurgy of nonferrous metals
    - Minor metals
      - Special metals, A-Z -- Continued
      - 799.V3 Vanadium
      - 799.Z5 Zirconium
  - Nonmetallic minerals
    - Including deposits and associated mining industries
    - For prospecting see TN270+
    - 799.5 General works
    - By region or country
      - United States
        - 799.6.A1 General works
        - 799.6.A2-Z By region or state, A-Z
        - 799.7.A-Z Other regions or countries, A-Z
        - Subarrange each country by Table T4a
  - Coal
    - 799.9 Periodicals, societies, etc.
    - 799.95 Dictionaries and encyclopedias
    - 800 General works
    - 801 Elementary and popular works
    - Mines and mining
      - For practical mining operations see TN275+
      - For safety measures see TN295
      - For ventilation see TN301+
      - For lighting see TN306.5+
    - 802 General works
    - 803 General special
      - Including use of explosives
    - Special countries
      - Including geology of coal deposits in the region or country
    - America
      - 805.A1 Periodicals, societies, etc.
      - 805.A2 General works
      - United States
        - 805.A3 Periodicals, societies, etc.
        - 805.A4 Directories
        - 805.A5 General works
        - 805.A6-.W Individual states, A-W
        - 805.Z6A-.Z6Z Individual companies. By name, A-Z
      - 806.A-Z Other countries, A-Z
        - Subarrange each country by Table T4a
    - 807.A-Z American companies outside of United States, A-Z
    - Europe
      - 808.A1 General works
      - 808.A4-.Z5 Special countries, A-Z
        - Subarrange each country by Table T4a
      - 808.Z6A-.Z6Z Special companies. By name, -Z
    - Asia
      - 809.A1 General works
      - 809.A4-.Z5 Special countries, A-Z
        - Subarrange each country by Table T4a
      - 809.Z6A-.Z6Z Special companies. By name, A-Z
    - Africa
      - 810.A1 General works

## Nonmetallic minerals

## Coal

## Mines and mining

## Special countries

## Africa -- Continued

810.A4-.Z5

## Special countries, A-Z

Subarrange each country by Table T4a

810.Z6A-.Z6Z

## Special companies. By name, A-Z

## Australia, Oceania, etc.

811.A1

## General works

811.A4-.Z5

## Special countries, A-Z

Subarrange each country by Table T4a

811.Z6A-.Z6Z

## Special companies. By name, A-Z

812

## Arctic regions and Antarctica

Including Spitzbergen, Bear Island, etc.

## Coal mining machinery, etc.

813

## General works

814

## Catalogs

815

## Coal-handling machinery for colliery purposes

For machinery for handling coal commercially see TJ1405

## Coal preparation, washing, screening, etc.

816.A1

## Periodicals, societies, etc.

816.A3-Z

## General works

817

## Coal storage, weathering, etc.

## Underground gasification see TP759

## Anthracite

820

## General works

823.A-Z

## Special countries, A-Z

## Bituminous coal

825

## General works

## Special countries see TN805+

827

## Cannel coal

## Subbituminous coal

828

## General works

830.A-Z

## Special countries, A-Z

## Lignite. Brown coal

831

## General works

834.A-Z

## Special countries, A-Z

## Peat

837

## General works

840.A-Z

## Special countries, A-Z

841

## Peat machinery

842

## Peat straw, peat mull, etc.

## Coalbed methane

Cf. TN305+ Mine safety

Cf. TP761.M4 Gas industry

844

## Periodicals, societies, etc.

844.5

## General works

## By region or country

## United States

844.6

## General works

844.62.A-Z

## By region or state, A-Z

844.7.A-Z

## Other regions or countries, A-Z

## Other natural carbons and hydrocarbons

845

## Graphite

847

## Schungite

## Nonmetallic minerals

## Other natural carbons and hydrocarbons -- Continued

- 850 Bitumen
- 851 Sapropel
- 853 Asphalt
  - Including uses
- 857 Ozokerite, ceresin, natural paraffin
  - Cf. TP695 Chemical technology
- Oil shales
  - Cf. TP699 Chemical technology
- 858.A1 Periodicals, societies, etc.
- 858.A2-Z General works
- 859.A-Z Special countries, A-Z
  - Subarrange each country by Table T4a
- Petroleum. Petroleum engineering
  - Cf. HD9560+ Petroleum trade
  - Cf. TP690+ Refining, etc.
- 860 Periodicals, societies, etc.
- (862) Yearbooks
  - see TN860
- 863 Congresses
- 864 Collected works (nonserial)
- 865 Dictionaries and encyclopedias
- 867 Directories
- Biography
- 869 Collective
- 869.2.A-Z Individual, A-Z
- 870 General works
- 870.3 Juvenile works
- Origin and composition. Petroleum geology
  - For petroleum geology of specific regions or countries see TN872+
  - For analysis and testing see TP691
- 870.5 General works
- 870.515 Brines. Groundwater. Water chemistry
- 870.52 Capillarity
- 870.53 Mathematical modelling
- 870.54 Oil sands
- 870.55 Remote sensing
- 870.56 Rock mechanics
- 870.57 Traps. Reservoirs
- Prospecting see TN271.P4
- 871 General special
  - Including well testing, storage, diffusion, etc.
- 871.15 Addresses, essays, lectures
- 871.18 Reservoir oil pressure
- Well drilling
- 871.2 General works
- 871.215 Blowouts. Accidents and their prevention. Safety measures
- 871.22 Casing
- 871.23 Directional drilling
- 871.24 Formation damage
- 871.25 Horizontal well drilling
- 871.255 Hydraulic fracturing
  - Including hydraulic fracturing for natural gas
- 871.26 Managed pressure drilling
- 871.27 Muds. Fluids



- Nonmetallic minerals
  - Other natural carbons and hydrocarbons
    - Petroleum. Petroleum engineering
      - Well drilling -- Continued
        - 871.3 Offshore well drilling
        - 871.33 Underbalanced drilling
        - 871.35 Well logging
        - 871.37 Secondary recovery of oil
        - 871.4 Mobile offshore structures
        - 871.5 Petroleum and gas well supplies
          - Including catalogs
      - Special countries
        - Including geology of petroleum deposits in the region or country
  - America
    - 872.A2 General works
      - By region or country
        - United States
          - 872.A3-.A34 Periodicals, societies, congresses, etc.
          - Documents
            - 872.A35-.A44 Serials
            - 872.A45 Monographs
              - Arrange by date
          - Directories see TN867
      - General works
        - By state, A-W
          - 872.Z6A-.Z6Z Special companies. By name, A-Z
      - Other regions or countries, A-Z
        - 873.A-Z Subarrange each country by Table T4a
  - Europe
    - 874.A1 General works
    - 874.A4-Z Special countries, A-Z
      - Subarrange each country by Table T4a
  - 875 Caspian, Baku, etc.
  - Asia
    - 876.A1 General works
    - 876.A4-Z Special countries, A-Z
      - Subarrange each country by Table T4a
  - Africa
    - 877.A1 General works
    - 877.A4-Z Special countries, A-Z
      - Subarrange each country by Table T4a
  - Australia, Oceania, etc.
    - 878.A1 General works
    - 878.A6-Z Special countries or islands, A-Z
      - Subarrange each country or island by Table T4a
  - 878.2 Arctic regions
    - Including Greenland
- 879 Oil companies outside of United States
  - Petroleum pipelines
    - Cf. TH9445.P38 Fire prevention and extinction
  - 879.5 General works
  - 879.52 Control
  - 879.53 Design and construction
  - 879.54 Equipment and supplies
  - 879.55 Failure. Accidents. Leaks. Reliability
  - 879.555 Flow assurance

- Nonmetallic minerals
  - Other natural carbons and hydrocarbons
    - Petroleum. Petroleum engineering
      - Petroleum pipelines -- Continued
        - 879.56 Fluid dynamics
        - 879.57 Insulation. Heat transmission
        - 879.58 Maintenance and repair
        - 879.59 Safety measures
        - 879.6 Welding
  - Natural gas
    - 880.A1 Periodicals, societies, etc.
    - 880.A3-Z General works
    - 880.2 Gas well drilling
      - For hydraulic fracturing see TN871.255
    - 880.5 Natural gas pipelines
      - Natural gas storage see TP756
      - Underground natural gas storage see TP756.5
    - United States
      - 881.A1 General works
      - 881.A2-.W Special states, A-W
      - 882.A-Z Other countries, A-Z
        - Subarrange each country by Table T4a
    - 883 Helium in natural gas
    - 884 Hydrates in natural gas
    - 885 Amber, fossil gums, etc.
    - 890 Sulfur
    - Alkalies
      - Cf. TN919 Potassium salts
      - Cf. TP222+ Chemical technology
    - 895 General works
      - United States
        - 896.A1 General works
        - 896.A6-.W States, A-W
        - 897.A-Z Other countries, A-Z
          - Subarrange each country by Table T4a
  - Sodium salts. Soda deposits
    - 899 General works
  - Salt
    - Mining and manufacture
      - 900 General works
        - By region or country
          - United States
            - 902.A1 General works
            - 902.A2-.W By state, A-W
          - 903.A-Z Other regions or countries, A-Z
            - Subarrange each country by Table T4a
      - Manufacture
        - 905 Sea water
        - 907 Saline springs
        - 909 Company prospectuses, etc.
    - Sodium sulfate see TN948.S7
    - 911 Nitrates. Chile saltpeter
      - Cf. TP237+ Chemical technology
  - Phosphates
    - 913 General works

- Nonmetallic minerals  
 Phosphates -- Continued
- 914.A-Z Special countries, A-Z  
 Subarrange each country by Table T4a
- 917 Borax and other borates
- 919 Potassium salts. Potash-bearing rocks and plants. Kelp  
 Cf. TP245.P8 Chemical technology
- Mineral waters  
 Cf. GB1198+ Hot springs  
 Cf. RA794 Health resorts, spas, etc.  
 Cf. TP625 Artificial mineral waters
- 923 General works  
 United States  
 925 General works  
 926.A-.W Special states, A-W  
 927.A-Z Other American countries, A-Z  
 Subarrange each country by Table T4a
- Europe  
 928.A1 General works  
 928.A3-Z By country, island, or region, A-Z  
 Subarrange each country or island by Table T4a
- Asia  
 929.1.A1 General works  
 929.1.A3-Z By country, island, or region, A-Z  
 Subarrange each country or island by Table T4a
- Africa  
 929.3.A1 General works  
 929.3.A3-Z By country, island, or region, A-Z  
 Subarrange each country or island by Table T4a
- Australia  
 929.5.A1 General works  
 929.5.A3-Z Local, A-Z
- New Zealand  
 929.6.A1 General works  
 929.6.A3-Z Local, A-Z
- Pacific islands  
 929.7.A1 General works  
 929.7.A3-Z By country, island, or region, A-Z  
 Subarrange each country or island by Table T4a
- 930 Asbestos
- 933 Mica
- 936 Abrasives. Emery, corundum, etc.
- 939 Sand and gravel  
 Clay  
 Cf. TP785+ Ceramic industries
- 941 General works
- 942 United States
- 943.A-Z Other countries, A-Z  
 Subarrange each country by Table T4a
- Structural materials in general see TN950+
- 945 Cement materials
- 946 Gypsum  
 Cf. TP888 Plaster and other gypsum products
- 948.A-Z Other specific nonmetallic minerals, A-Z  
 Including minerals from which metals are not normally extracted
- 948.A5 Allanite

## Nonmetallic minerals

## Other specific nonmetallic minerals, A-Z -- Continued

948.A6	Alunite
948.A65	Anhydrite
948.A7	Apatite
948.A76	Argillite
948.B18	Barite
948.B4	Bentonite
948.B45	Beryl
	Calcite see TN967
948.C3	Carbonatites
948.C34	Carnallite
948.C5	Chalk. Whiting
948.C55	Chiolite
948.C6	Clinoptilolite
948.C72	Conglomerate
948.C73	Coprolites
948.C75	Cordierite
(948.C8)	Corundum see TN936
948.C95	Cyanite
948.D49	Diaspore
948.D5	Diatomaceous earth
948.D8	Dumortierite
948.F3	Feldspar
948.F45	Fillers
948.F5	Flint
948.F6	Fluorspar
948.F9	Fullers' earth
	Garnet see TN997.G3
948.H3	Halloysite
948.L3	Laterite
948.L46	Lime
948.M2	Magnesite
948.M3	Marl
948.M5	Meerschaum
948.M7	Monazite
948.M72	Montmorillonite
	Mordenite see TN948.Z4
948.M8	Mullite
948.M85	Muscovite
948.N37	Nepheline syenite
948.N4	Nephelite (Nepheline)
948.O2	Ocher
948.P25	Palygorskite
948.P38	Pegmatites
948.P4	Perlite
948.P5	Pigments
948.P74	Pumice
948.P8	Pyrite
948.P82	Pyrochlore
948.P85	Pyrophyllite
948.Q3	Quartz
948.R45	Rhodonite
948.S24	Saprolites
948.S4	Selenium

## Nonmetallic minerals

## Other specific nonmetallic minerals, A-Z -- Continued

- 948.S45 Serpentine  
 948.S5 Shale  
     Cf. TN858+ Oil shales
- 948.S6 Silica  
 948.S63 Sillimanite  
 948.S7 Sodium sulfate  
 948.S9 Syenite  
 948.T2 Talc and soapstone  
 948.T74 Tripoli  
 948.T76 Trona  
 948.T9 Tysonite  
 948.V4 Vermiculite  
     Whiting see TN948.C5
- 948.W6 Wollastonite  
 948.Z4 Zeolites. Mordenite
- Building and ornamental stones  
     Cf. TA426+ General properties, testing, etc.  
     Cf. TA670+ Stonemasonry and stonecutting
- 950.A1 Periodicals, societies, etc.  
 950.A5-Z General works  
     Special countries  
       America  
         951.A1 General works  
           United States  
           951.A5 General works  
           951.A6-W Special states, A-W  
           952.A-Z Other American countries, A-Z  
         Europe  
         953.A1 General works  
         953.A3-Z Special countries, A-Z  
         Asia  
         954.A1 General works  
         954.A3-Z Special countries, A-Z  
         Africa  
         955.A1 General works  
         955.A3-Z Special countries, A-Z  
         Australia. Oceania  
         956.A1 General works  
         956.A3-Z Special countries, A-Z
- Special stones  
 957 Sandstone  
 958 Slate  
     Soapstone see TN948.T2
- 967 Limestone. Marble  
 970 Granite  
 973 Other building stones  
     Stones for roadmaking see TE200+
- Ornamental stones. Gems  
 980 General works  
     Special countries  
       America  
         981.A1 General works  
           United States  
           981.A5 General works

	Building and ornamental stones
	Ornamental stones. Gems
	Special countries
	America
	United States -- Continued
981.A6-.W	Special states, A-W
982.A-Z	Other American countries, A-Z
	Europe
983.A1	General works
983.A3-Z	Special countries, A-Z
	Asia
984.A1	General works
984.A3-Z	Special countries, A-Z
	Africa
985.A1	General works
985.A3-Z	Special countries, A-Z
	Australia. Oceania
986.A1	General works
986.A3-Z	Special countries, A-Z
989.A-Z	Special ornamental stones (other than gems), A-Z
989.A3	Alabaster
989.B55	Blue john
989.S45	Selenite
	Diamonds
990	General works
	South Africa
991	General works
992	Company reports, etc.
993	United States
994.A-Z	Other special countries, A-Z
997.A-Z	Other precious and semiprecious stones, A-Z
997.A35	Agates
997.E5	Emeralds
997.G3	Garnets
997.J3	Jade
997.M35	Malachite
997.O7	Opals
997.R83	Rubies
997.S24	Sapphires
997.T87	Turquoise

- Chemical technology  
 Cf. HD9000+ Economics
- 1 Periodicals, societies, etc.
- 5 Congresses  
 Exhibitions. Museums
- 6.A1 General works
- 6.A2-Z By region or country, A-Z  
 Subarrange each country by Table T4b
- 7 Collected works (nonserial)
- 9 Dictionaries and encyclopedias
- 12 Directories  
 History
- 15 General works
- 16 Ancient
- 17 Medieval
- 18 Modern
- 19 Nineteenth century
- 20 Twentieth century
- 21-127 Country divisions (Table T1a)  
 Add country number in table to TP0
- 130.A-Z Special companies, A-Z  
 Including history, description, etc.
- Biography
- 139 Collective
- 140.A-Z Individual, A-Z
- General works
- 144 Early to 1900
- 145 1900-
- 146 Elementary works
- 147 Popular works  
 Addresses, essays, lectures see TP185
- 149 General special
- 150.A-Z Special aspects of the subject as a whole, A-Z
- 150.A23 Accidents. Disasters  
 For works on accidents in specific places see TP21+
- 150.A88 Automation  
 Data processing see TP184  
 Disasters see TP150.A23
- 150.Q34 Quality control
- 150.S24 Safety measures
- 151 Tables, pocketbooks, etc.  
 Cf. T49 Technical receipts
- Chemical engineering  
 For chemical engineering aspects of atomic power see TK9350
- 155 General works
- 155.2.A-Z Special aspects of the subject as a whole, A-Z  
 Cost control see TP155.2.C67  
 Cost effectiveness see TP155.2.C67
- 155.2.C67 Costs. Cost control. Cost effectiveness  
 Data processing see TP184
- 155.2.E58 Environmental chemistry. Green chemistry  
 Green chemistry see TP155.2.E58
- 155.2.M34 Markov processes
- 155.2.M35 Mathematical models
- 155.2.M36 Mathematics
- 155.2.T43 Technological innovations

- Chemical engineering
- Special aspects of the subject as a whole, A-Z -- Continued
- 155.2.T45 Thermodynamics
- Chemical plants
  - Cf. TH4524 Building construction
- 155.5 General works
- 155.6 Management
- Chemical processes
  - 155.7 General works
  - 155.75 Chemical process control
    - Including nonlinear programming
    - Cf. TP184 Data processing
- 156.A-Z Special processes and operations, A-Z
- 156.A3 Absorption of gases
- 156.A33 Acoustics. Ultrasonics
- 156.A35 Adsorption
- 156.B7 Briquetting
- 156.C3 Carbonization
- 156.C35 Catalysis
- 156.C38 Cavitation
- 156.C5 Chromatography
- 156.C57 Coating processes
  - Cf. TA418.9.C57 Coatings
  - Cf. TS670+ Electroplating
  - Cf. TT300+ Industrial painting
- 156.C59 Compacting
- 156.C6 Condensation
- 156.C64 Controlled release technology
- Cooling see TP363
- 156.C7 Crystallization
- 156.C8 Curing
- Dehydration see TP363
- 156.D4 Dehydrogenation
- 156.D42 Demulsification
- 156.D43 Desulphuration
  - Cf. TD885.5.S85 Air pollution control
- 156.D45 Dialysis
- 156.D47 Diffusion
- 156.D5 Distillation
- (156.D7) Drying
  - see TP363
- 156.E5 Electrostatic separation
- 156.E6 Emulsion
- 156.E65 Equilibrium
- 156.E68 Etching
  - Including lithographic chemistry
- (156.E7) Evaporation
  - see TP363
- 156.E8 Extraction
- 156.E98 Extrusion
- 156.F4 Fermentation, Industrial
  - Cf. TP248.25.S64 Solid-state fermentation
- 156.F5 Filtration
- 156.F55 Flocculation
- Flow chemistry see TP156.F6



## Chemical engineering

## Special processes and operations, A-Z -- Continued

- 156.F6 Flow of liquids  
Including flow chemistry
- 156.F65 Fluidization
- 156.F66 Foam fractionation
- (156.G7) Grinding  
see TP156.S5
- Heating see TP363
- 156.H78 Hydrogen-ion concentration
- 156.H8 Hydrogenation
- 156.H82 Hydrolysis
- 156.H85 Hydroxylation
- 156.I6 Ion exchange
- 156.I7 Isotope separation
- Lithographic chemistry see TP156.E68
- 156.M26 Magnetic separation  
Cf. TN530 Ore dressing and milling
- 156.M3 Mass transfer
- 156.M45 Methanation
- 156.M5 Mixing
- 156.M65 Molding
- 156.N5 Nitration
- 156.N8 Nucleation
- 156.O7 Osmosis. Reverse osmosis
- 156.O9 Oxidation
- 156.P3 Particle technology
- 156.P4 Pelletizing
- 156.P5 Plasma
- 156.P6 Polymerization
- 156.P7 Precipitation
- 156.P75 Pressure processes
- 156.P8 Pumping
- 156.P83 Purification
- 156.P9 Pyrolysis
- 156.R35 Rectification
- 156.R38 Recycle processes
- 156.R4 Reduction
- Reverse osmosis see TP156.O7
- 156.R45 Rheology
- 156.S3 Screening
- 156.S32 Scrubber process
- 156.S4 Sedimentation
- 156.S45 Separation  
Cf. TP156.M26 Magnetic separation  
Cf. TP248.25.M46 Membrane separation (Biotechnology)  
Cf. TP248.25.S47 Biotechnology
- 156.S5 Size reduction. Grinding
- 156.S55 Solidification
- 156.S57 Sprouted bed processes
- 156.S6 Spraying
- 156.S8 Sterilization
- 156.S9 Sublimation
- 156.S95 Surface analysis
- 156.T7 Transport processes
- Ultrasonics see TP156.A33

- Chemical engineering
  - Special processes and operations, A-Z -- Continued
    - 156.V3 Vacuum technology
    - 156.W4 Weighing and measuring
    - 156.W45 Wetting
    - 156.Z6 Zone melting
  - Apparatus and supplies
    - 157 General works
    - 158 Trade catalogs
    - 159.A-Z Special, A-Z
      - 159.A47 Antifoaming agents
      - 159.A5 Antioxidants
      - 159.A85 Atomizers
      - 159.A9 Autoclaves
      - 159.C3 Catalysts
      - 159.C4 Centrifuges
      - 159.C46 Chemical detectors
      - 159.C55 Coagulants
      - 159.C57 Compressors
      - 159.C6 Cooling towers
      - 159.D4 Densimeters
      - 159.D5 Detectors, Chemical see TP159.C46
      - 159.D7 Distillation apparatus
      - 159.D7 Drying agents
      - 159.E37 Electrochemical sensors
      - 159.E39 Electrodes
      - 159.E4 Electrolytic cells
      - 159.E85 Evaporators
      - 159.E9 Extractors
      - 159.F4 Feeders
      - 159.F47 Fillers
      - 159.F49 Fixed bed reactors
      - 159.F52 Flare gas systems
      - 159.F54 Flocculants
      - 159.F87 Furnaces
      - 159.H4 Heat transfer media
      - 159.L4 Leaching equipment
      - 159.M4 Membranes
        - Cf. TP248.25.M46 Membrane separation (Biotechnology)
      - 159.M53 Microreactors
      - 159.M6 Molecular sieves
      - 159.N6 Nozzles
      - 159.O9 Oxidizing agents
      - 159.P3 Packed towers
      - 159.P5 Pipe
      - 159.P57 Plasma jets
      - 159.P6 Plate towers
      - 159.P8 Pressure vessels see TS283
      - 159.P8 Pumping machinery
      - 159.S34 Scrubbers
      - 159.S4 Sensors, Chemical see TP159.C46
      - 159.S4 Separators (Machine)
      - 159.S6 Sorbents
      - 159.S7 Steam-jacketed pans
      - 159.S73 Steaming apparatus
      - 159.V3 Vacuum tubes

- Apparatus and supplies
- Special, A-Z -- Continued
- 159.V34       Valves
- 159.V52       Vibrators
- 161           Laboratory manuals
- Study and teaching. Research
- 165           General works
- 168           Problems, exercises, etc.
- Country divisions
- America
- 170            General works
- United States
- 171            General works
- 172.A-.W      By state, A-W
- 173            Canada
- 174            Latin America. West Indies
- 175            South America
- 176            Europe
- 177            Asia
- 178            Africa
- 179            Australia
- 179.5         New Zealand
- 180            Pacific islands
- Special schools
- 182            United States
- 183.A-Z       Other countries, A-Z
- 184           Data processing
- Cf. TP155.75 Chemical process control
- 185           Addresses, essays, lectures
- Chemical engineering as a profession
- 186            General works
- 186.5         Chemical technicians
- Communication in chemical engineering
- 186.7         General works
- 186.8         Computer network resources
- Including the Internet
- Government and industrial laboratories, etc.
- 187            General works
- Including organization, etc.
- Special countries
- 190            United States
- 191            Canada. British America
- Other American countries
- 192.A1        General works
- 192.A2-Z      By region or country, A-Z
- Europe
- 193.A1        General works
- 193.A2-Z      By region or country, A-Z
- Asia
- 194.A1        General works
- 194.A2-Z      By region or country, A-Z
- Africa
- 195.A1        General works
- 195.A2-Z      By region or country, A-Z
- 196            Australia
- 196.5         New Zealand

- Government and industrial laboratories, etc.  
 Special countries -- Continued
- 197 Pacific islands
- Chemicals  
 Class here manufacture, use, etc.  
 For purification see TP156.P83
- 200 General works
- 201 General special
- 202 Catalogs, pricelists, etc.  
 Cf. TK9401 Radioisotopes
- Directories see TP12
- 205.A-Z Special topics, A-Z
- 205.S85 Storage
- 210 Patents
- Special inorganic chemicals
- Acids
- 213 General works
- 215 Sulfuric acid
- 217.A-Z Other acids, A-Z  
 For organic acids see TP248.A+
- 217.C5 Chromic
- 217.H8 Hydrochloric
- 217.H9 Hydrocyanic
- 217.H94 Hydrofluoric
- 217.N5 Nitric
- 217.P4 Perchloric
- 217.P5 Phosphoric
- Alkalies  
 Cf. TN895+ Mineral industries
- 222 General works
- 223 Ammonia and its compounds  
 Other special see TP245.A+
- Salts
- 230 General works
- 233 Chlorides  
 Nitrates
- 237 General works
- 238 Saltpeter. Niter
- 240 Sulfates and sulfites
- Gases
- 242 General works
- 243 Compressed and liquefied gases  
 Including cylinders
- 244.A-Z Special gases, A-Z  
 For gaseous elements see TP245.A+  
 Cf. TP750.2+ Gas industry
- 244.A3 Aerosols
- 244.C1 Carbon dioxide
- 244.G73 Greenhouse gases
- 244.R3 Rare gases
- 244.S83 Sulfur dioxide
- 245.A-Z Other inorganic chemicals. By principal elements, A-Z  
 Class here commercial products only  
 For pure chemistry see QD181.A+
- 245.A4 Aluminum
- 245.A6 Antimony

## Chemicals

## Special inorganic chemicals

## Other inorganic chemicals. By principal elements, A-Z -- Continued

245.A7	Argon
245.A8	Arsenic
245.B2	Barium
245.B4	Beryllium
245.B5	Bismuth
245.B6	Boron
245.B7	Bromine
245.C2	Cadmium
245.C25	Caesium
245.C3	Calcium
245.C4	Carbon
245.C45	Cerium
245.C5	Chlorine
245.C6	Chromium
245.C7	Cobalt
245.C8	Copper
245.E6	Erbium
245.F6	Fluorine
245.G2	Gadolinium
245.G4	Gallium
245.G5	Germanium
245.G6	Gold
245.H4	Helium
245.H9	Hydrogen
245.I5	Indium
245.I6	Iodine
245.I7	Iridium
245.I8	Iron
245.K6	Krypton
245.L2	Lanthanum
245.L4	Lead
245.L5	Lithium
245.M2	Magnesium
245.M3	Manganese
245.M5	Mercury
245.M7	Molybdenum
245.N4	Neodymium
245.N5	Neon
245.N6	Nickel
245.N7	Niobium
245.N8	Nitrogen
245.O7	Osmium
245.O9	Oxygen. Ozone
245.P2	Palladium
245.P5	Phosphorus
245.P7	Platinum
245.P8	Potassium
245.P9	Praseodymium
245.P94	Promethium
245.P95	Protoactinium
245.R2	Radium
245.S2	Samarium
245.S3	Scandium

## Chemicals

## Special inorganic chemicals

Other inorganic chemicals. By principal elements, A-Z -- Continued

245.S4	Selenium
245.S5	Silicon
	Silicones see TP248.S5
245.S6	Silver
245.S7	Sodium
245.S8	Strontium
245.S9	Sulfur
245.T2	Tantalum
245.T3	Tellurium
245.T4	Terbium
245.T5	Thallium
245.T6	Thorium
245.T7	Thulium
245.T8	Tin
245.T85	Titanium
245.T9	Tungsten
245.U7	Uranium
245.V2	Vanadium
245.V5	Victorium
245.X4	Xenium
245.Y8	Ytterbium
245.Y9	Yttrium
245.Z7	Zinc
245.Z8	Zirconium

## Organic chemicals and preparations

247.A1	Periodicals, societies, etc.
247.A2-Z	General works
247.2	Acids
247.5	Solvents
247.7	Plasticizers
248.A-Z	Special, A-Z
	For chemical technology of specific drugs see RS431.A+
248.A17	Acetates
248.A18	Acetic acid
	Including wood vinegar
248.A2	Acetone
248.A28	Acridines
248.A4	Acrylic acid
248.A5	Alcohols
	Cf. TP593 Fermentation industries
248.A53	Aldehydes. Ketones
248.A554	Alkenes (Olefins)
	Cf. QD305.H7 Organic chemistry
248.A555	Allene
248.A56	Allyl compounds
248.A6	Amino acids
248.A62	Antibiotics
	Antibodies, Monoclonal see TP248.65.M65
248.A7	Aromatic compounds
248.A8	Ascorbic acid
248.A9	Aziridines
248.B4	Benzene
248.B5	Benzoic acid

## Chemicals

## Organic chemicals and preparations

## Special, A-Z -- Continued

248.B55	Biomass chemicals
248.B57	Biosurfactants
248.B6	Boron organic compounds
248.B78	Butanediol
248.B8	Butanone
248.B87	Butylene
248.C15	Calcium gluconate
248.C2	Camphor
248.C24	Carbodiimides
248.C27	Carbohydrates
248.C3	Carbolic acid
248.C34	Carbon disulfide
248.C38	Carboxymethyl cellulose
248.C4	Casein
248.C45	Cellulose acetate
248.C5	Chloroform
248.C6	Citric acid
248.C67	Cresols
248.C7	Cresylic acid
248.C9	Cyanides
248.C93	Cyanocobalamine
248.C94	Cyclodextrins
248.D5	Diolefins
248.E5	Enzymes
248.E62	Esters
248.E65	Ether
248.E68	Ethylcellulose
248.E72	Ethylene
248.F5	Fluoro-organic compounds
248.F6	Formaldehyde
248.F63	Formic acid
248.F79	Fungicides
248.F8	Furaldehyde
248.G6	Glucosides
248.G65	Glutamic acid
	Glycerin see TP973
248.H3	Halogens
248.H36	Herbicides
248.H4	Hexachlorethane
248.H43	Hexone
248.H85	Hydrazine
248.H9	Hydrocarbons
	Cf. TP290.H9 Inflammable material
248.I57	Insecticides
248.I8	Isocyanates
248.I86	Isoprene
	Ketones see TP248.A53
248.L27	Lactams
248.L3	Lactic acid
248.M4	Menthol
248.M43	Metal carbonyls
248.M45	Metallo-organic compounds
248.M48	Methyl sulfoxide

## Chemicals

## Organic chemicals and preparations

## Special, A-Z -- Continued

Monoclonal antibodies see TP248.65.M65

- 248.N7 Nitrocellulose  
 248.N8 Nitrogen compounds  
 248.N9 Nucleotides  
 248.O9 Oxalic acid  
 248.P4 Pectin  
 248.P44 Pentosan  
 248.P46 Peroxides  
 248.P47 Pesticides  
 248.P5 Phenol products  
 248.P55 Phosphatides  
 248.P6 Phthalic acid  
 248.P62 Phthalocyanins  
 248.P65 Picric acid  
 248.P67 Polymethylbenzenes  
 248.P675 Polyphosphazenes  
 248.P68 Polysaccharides  
 248.P73 Proline  
 248.P75 Propylene  
 248.P77 Proteins  
 248.P8 Pyridine  
 (248.S3) Saccharin  
           see TP424  
 248.S5 Silicones  
 248.S6 Sorbitol  
 248.S7 Starch  
           Cf. TP415+ Food industry  
 248.S76 Stearates  
 248.S8 Stearic acid  
 248.S9 Sugar esters  
 248.S93 Sulfur organic compounds  
 248.T27 Tartaric acid  
 248.T3 Tartrates  
 248.T46 Terephthalic acid  
 248.T55 Tocopherol  
 248.T6 Toluene  
 248.T7 Trichloroethylene  
 248.U7 Urea  
 Vinegar, Wood see TP248.A18  
 (248.W6) Wood alcohol  
           see TP594  
 Wood vinegar see TP248.A18  
 248.X9 Xyloles  
 248.X95 Xylose

## Biotechnology

- Cf. QR183.5 Immunotechnology  
 Cf. RS380 Pharmaceutical biotechnology  
 Cf. S494.5.B563 Agricultural biotechnology  
 Cf. TD192.5+ Environmental biotechnology

- 248.13 Periodicals. Societies. Serials  
 248.14 Congresses  
 248.15 Collected works (nonserial)  
 248.16 Dictionaries and encyclopedias



## Biotechnology -- Continued

- 248.162 Symbols, formulas, abbreviations
- 248.17 Directories
- 248.175 Patents
- 248.18 History
- By region or country
  - United States
    - 248.185 General works
    - 248.19.A-Z By region or state, A-Z
    - 248.195.A-Z Other regions or countries, A-Z
- 248.2 General works
- 248.215 Popular works
- 248.218 Juvenile works
- 248.22 Study and teaching
- 248.23 Social aspects
- Processes, operations, and techniques
  - 248.24 General works
  - 248.25.A-Z Special, A-Z
    - 248.25.A96 Automation. Computer simulation. Data processing
    - 248.25.B53 Bilayer lipid membranes
    - 248.25.B54 BioMEMS
    - 248.25.B55 Bioreactors and bioreactor processes
    - 248.25.C37 Capillary electrophoresis
    - 248.25.C42 Cell adhesion
    - 248.25.C44 Cell culture
    - Computer simulation see TP248.25.A96
    - Control see TP248.25.M65
    - 248.25.C79 Cryopreservation
    - Data processing see TP248.25.A96
    - 248.25.E88 Extraction
    - 248.25.F55 Flocculation
    - 248.25.F57 Flow cytometry
    - 248.25.G7 Granulation
    - 248.25.H54 High performance liquid chromatography
    - 248.25.H56 High pressure
    - 248.25.I55 Immobilized cell processes
    - 248.25.L85 Luminescence
    - 248.25.M34 Magnetic separation
    - 248.25.M38 Mass spectrometry
    - 248.25.M39 Mathematical models
    - 248.25.M43 Measurement
    - 248.25.M45 Membrane reactors
    - 248.25.M46 Membrane separation
    - 248.25.M58 Mixed culture
    - Molecular communication see TK5103.57
    - 248.25.M645 Molecular machinery
    - 248.25.M65 Monitoring. Control
    - 248.25.N35 Nanotechnology
    - 248.25.N42 Near infrared spectroscopy
    - 248.25.P44 Pervaporation
    - 248.25.P53 Phase partition
    - Pressure, High see TP248.25.H56
    - 248.25.S47 Separation
    - 248.25.S64 Solid-state fermentation
  - 248.27.A-Z Special biotechnologies, A-Z
    - 248.27.A46 Algal biotechnology

- Biotechnology  
Special biotechnologies, A-Z -- Continued
- 248.27.A53 Animal cell biotechnology  
248.27.F86 Fungal biotechnology  
248.27.I56 Insect cell biotechnology  
248.27.M37 Marine biotechnology  
248.27.M47 Methylophilic microorganisms  
248.27.M53 Microbial biotechnology  
Cf. TN688.3.B33 Hydrometallurgy
- 248.27.P55 Plant biotechnology  
Cf. SB106.B56 Crops
- 248.27.P75 Protozoan biotechnology  
248.27.Y43 Yeast biotechnology
- 248.3 Biochemical engineering. Bioprocess engineering  
For industrial applications of specific biomolecules or classes of biomolecules see TP248.A+  
Cf. TP156.F4 Industrial fermentation  
Cf. TP248.3 Hydrometallurgy  
Cf. TP500+ Fermentation industries
- 248.6 Genetic engineering applications  
Cf. QH442+ Genetic engineering (Biology)
- Biotechnological production, modification, and applications of individual compounds or classes of compounds
- 248.65.A-Z Special, A-Z
- 248.65.A39 Allergens  
248.65.A43 Amino acids  
248.65.A45 Amylodextrins  
248.65.A57 Antibiotics  
248.65.B56 Blood products  
Carbohydrates see TP248.65.P64
- 248.65.C35 Carbon compounds  
248.65.C44 Cellulase  
248.65.C45 Cellulose  
248.65.C55 Chitin  
248.65.C58 Citric acid  
248.65.C92 Cyclodextrins  
248.65.E35 Eggs  
248.65.E59 Enzymes  
248.65.F44 Feeds  
248.65.F66 Food  
248.65.G49 Glycoconjugates  
248.65.H9 Hydrogen  
248.65.H93 Hydrolases  
248.65.I45 Immobilized enzymes  
248.65.I47 Immobilized proteins  
248.65.I49 Immunoglobulins  
248.65.L54 Lignocellulose  
248.65.L57 Lipids  
248.65.M37 Materials  
248.65.M53 Microbial exopolysaccharides  
248.65.M54 Microbial proteins  
248.65.M65 Monoclonal antibodies  
248.65.O65 Optical isomers  
248.65.O73 Organic compounds  
248.65.P53 Plant lipids  
248.65.P58 Polyethylene glycol  
248.65.P62 Polymers

- Biotechnology  
 Biotechnological production, modification, and applications of individual compounds or classes of compounds  
 Special, A-Z -- Continued
- 248.65.P64 Polysaccharides. Carbohydrates  
 248.65.P76 Proteins  
 248.65.S55 Single cell lipids  
 248.65.S56 Single cell proteins  
 248.65.V32 Vaccines  
 248.65.V57 Vitamins
- 249 Industrial radiochemistry. Industrial radiation chemistry  
 249.5 Industrial photochemistry  
 Industrial electrochemistry  
 Cf. QD115+ Electrochemical analysis  
 Cf. QD273 Electrochemistry of organic compounds  
 Cf. QD551+ Chemistry  
 Cf. TK4661 Electric furnaces
- 250 Periodicals, societies, etc.  
 251 Directories  
 252 History  
 253.A-Z Special countries, A-Z  
 255 General works  
 256 General special  
 257 Addresses, essays, lectures  
 258 Study and teaching  
 Special applications
- 259 Electrolysis of water  
 Electroplating see TS670+  
 Electrotyping see Z252  
 Metallurgical processes (General) see TN681+  
 Other special, A-Z
- 261.A-Z  
 261.A1 Alloys  
 261.B7 Brine  
 Calcium carbide see TP770
- 261.C3 Carborundum  
 261.C5 Chlorates  
 261.C67 Corundum  
 261.G7 Graphite  
 261.H9 Hydrogen  
 261.N7 Nitrogen  
 261.O9 Oxygen  
 261.P48 Phosphorus
- Water in chemical industry  
 262 General works  
 263 Water softening  
 Cf. TD466 Municipal water supply  
 Cf. TJ379 Feedwater purification
- Chemistry of fire and fire prevention  
 Cf. QD516 Heat of formation, combustion, flame, explosion  
 Cf. TH9446.3+ Flammability of materials
- 265 General works  
 266 Fire extinguishing agents  
 Cf. TH9338 Chemical systems of fire extinction
- 266.5 Fireproofing agents  
 267 Fireproofing of fabrics  
 Explosives and pyrotechnics

- Explosives and pyrotechnics -- Continued
- 267.5 General works  
 268 History  
 Special topics see TP272+
- 268.5.A-Z Biography, A-Z  
 e.g.  
 268.5.N7 Nobel  
 269 Early works to 1800  
 Explosives  
 Cf. UF860+ Military explosives and pyrotechnics
- 270.A1 Periodicals, societies, etc.  
 270.A2 Dictionaries and encyclopedias  
 270.A3-Z General works  
 270.5 Popular works. Juvenile works  
 271 Study, testing, etc.  
 Special explosives  
 272 Gunpowder  
 273 Smokeless powder  
 276 Nitrocellulose compounds. Guncotton  
 285 Nitroglycerine compounds. Dynamite  
 290.A-Z Other, A-Z  
 290.A5 Ammonium nitrate fuel oil  
 290.B7 Bobbinite  
 290.C7 Compensating powder  
 290.C8 Cordite  
 Cyclonite see TP290.R39  
 290.C9 Cyclotetramethylene-tetranitramine  
 290.H9 Hydrocarbons  
 Cf. TP248.H9 Organic preparations
- 290.L5 Liquid air or oxygen  
 290.L8 Lyddite. Melanite  
 290.N53 Nitrogen compounds  
 290.P5 Peroxides  
 290.R39 RDX (Cyclonite)  
 290.T8 Trinitrotoluene (TNT)  
 290.V5 Vigorit  
 291 Additives  
 293 Fuses, caps, fulminates, etc.  
 295 Storage and handling. Powder magazines. Thaw houses  
 297.A-Z Regulation, inspection, etc. By country, A-Z  
 (299) Laws relating to explosives  
 see class K
- Pyrotechnics  
 300 General works  
 301 Catalogs of fireworks, etc.
- 310 Matches  
 Fuel  
 Cf. TH7201+ Heating of buildings  
 Cf. TJ163.13+ Power resources
- 315 Periodicals, societies, congresses, etc.  
 316 Dictionaries and encyclopedias  
 317.A-Z Special countries, A-Z  
 318 General works  
 318.3 Juvenile works

- Fuel -- Continued
- 319 General special  
Including fuel for motor transport  
Cf. TP343+ Liquid and gaseous fuel
- 320 Minor works, pamphlets, etc.
- 320.5 Tables, calculations, etc.  
Analysis. Testing  
Cf. TP691 Oil inspection, analysis, testing, standards, etc.  
Cf. TP754 Analysis, tests, etc. in the gas industry
- 321 General works
- 322 Fuel testing plants
- 323 Briquets and briquetting (General)  
For special kinds see the subject  
Cf. TP327 Coal briquets  
Cf. TP340 Peat
- 324 Wood  
Coal  
Cf. TP352 Coal liquefaction
- 325 General works
- 326.A-Z By region or country, A-Z
- 327 Coal briquets
- 328 Pulverized coal
- 329 Lignite
- 331 Charcoal
- 336 Coke. Carbonization of coal
- 339 Biomass  
Cf. TP324 Wood
- 340 Peat  
Liquid and gaseous fuel  
Cf. TL704.7 Fuel for aircraft engines  
Cf. TP750.2+ Gas industry
- 343 General works
- Gas
- 345.A1 Periodicals, societies, congresses, etc.
- 345.A2-Z General works
- 350 Natural gas  
Cf. TP359.M4 Methane
- 352 Coal liquefaction
- 355 Petroleum  
Including synthetic petroleum
- 358 Alcohol and alcohol mixtures. Ethanol. Gasohol
- 359.A-Z Other special, A-Z
- 359.B4 Benzene (Benzol)
- 359.B46 Biodiesel fuels
- 359.B48 Biogas
- 359.C63 Coconut oil  
Diesel fuels, Oxygenated see TP359.O98
- 359.H8 Hydrogen
- 359.K47 Kerosene as fuel
- 359.L5 Liquefied petroleum gas
- 359.M4 Methane
- 359.O98 Oxygenated diesel fuels
- 359.V44 Vegetable oils
- 360 Other  
Including colloidal fuel, mud fuel, artificial fuel

- 361 Inflammable liquids and gases  
Including production, storage, handling and transportation  
Cf. TH9446.I475 Fire prevention  
Cf. TH9446.I5 Fire prevention
- 362 Antifreeze solutions
- 363 Heating, drying, cooling, evaporating  
Cf. TP159.D7 Drying agents  
Cf. TP159.H4 Heat transfer media
- 365 By-products of combustion  
Food processing and manufacture  
For beverages see TP500+  
Cf. TX341+ Nutrition  
Cf. TX641.2+ Cooking
- 368 Periodicals. Societies. Congresses
- 368.2 Dictionaries and encyclopedias
- 368.3 Directories
- 368.4 Catalogs
- 368.5 Patents
- 368.6 History
- 369.A-Z By region or country, A-Z  
Biography
- 369.5 Collective
- 369.52.A-Z Individual, A-Z
- 370 General works
- 370.2 Popular works
- 370.3 Juvenile works
- 370.4 Handbooks, tables, etc.
- 370.5 General special
- 370.6 Addresses, essays, lectures
- 370.7 Study and teaching
- 370.8 Research
- 370.9.A-Z Special aspects, A-Z  
Automation see TP372.8
- 370.9.C64 Color of food
- 370.9.M38 Mathematical models
- 370.9.T73 Transport theory
- Special processes  
For biotechnology applied to food processing see TP248.65.F66  
For processing of a special food see TP375+
- 371 General works
- 371.15 Aeration  
Preservation techniques  
For home preservation see TX599+
- 371.2 General works
- Canning
- 371.3 General works
- 371.35 Sterilization of canned foods
- Chemical preservation
- 371.4 General works  
By use of additives
- 371.42 General works
- 371.44 Brining, pickling, fermenting, etc.
- 371.46 Carbon dioxide treatment  
Including Dense phase carbon dioxide pasteurization
- Drying. Dehydration
- 371.5 General works

- Food processing and manufacture
  - Special processes
    - Preservation techniques
      - Drying. Dehydration -- Continued
        - 371.6 Freeze-drying
        - 371.65 Solar drying
        - 371.66 Spray drying
        - 371.7 Electric fields
        - 371.75 High pressure
        - 371.8 Irradiation
          - Low temperature
            - 372 General works
            - 372.2 Cold storage
            - 372.3 Freezing
            - 372.4 Ultrasound
  - Chemistry testing. Quality control
    - Cf. TX501+ Nutrition
    - General works
    - Special reactions, A-Z
      - 372.5 Enzymatic browning
      - 372.55.A-Z Maillard reaction
      - 372.55.E59
      - 372.55.M35
    - 372.6 Standards
    - 372.7 Production control
    - 372.8 Automation
    - 373 Food processing plants and equipment
      - Cf. TH4526 Building construction
    - 373.2 Transportation
    - 373.3 Storage
      - Including food storage pests
      - Cf. SB937 Farm insect pests
    - 373.5 Safety measures
    - 373.6 Sanitation
    - 373.8 By-products
    - Packaging
      - 374 General works
      - 374.5 Labeling
      - 374.6 Modified atmosphere packaging
  - Special foods
    - Sugars and syrups (General). Cane sugar. Sucrose
      - 375 Periodicals. Societies. Congresses
      - (375.3) Yearbooks
        - see TP375
      - 375.4 Dictionaries and encyclopedias
      - 375.5 Directories
      - 375.6 Patents
      - 375.7 History
      - 375.8.A-Z By region or country, A-Z
        - General works
          - 376 Early through 1800
          - 377 1801-
          - 378 Popular works
          - 378.2 Juvenile works
          - 379 Handbooks, tables, etc.
          - 380 General special
            - Including production control, automation
          - 381 Sugar-making machinery

## Food processing and manufacture

## Special foods

Sugars and syrups (General). Cane sugar. Sucrose -- Continued

381.5

Special methods

382

Analysis, testing. Saccharimetry

Special kinds of sugars and syrups

Beet

For periodicals see TP375

390

General works

391

General special

Cane see TP375+

395

Maple

405

Sorghum and corn

413

Molasses

414

Other special kinds of sugar

Including glucose, lactose, dextrose, date, Jerusalem artichoke, trehalose

Sugar products

414.3

General works

414.4

Caramel

Confectionery see TX780.2+

414.5

Sugar byproducts

For bagasse see TP996.B3

Starches. Cornstarch

415

General works

416.A-Z

Special starches and starch products, A-Z

416.D4

Dextrin

416.S3

Sago

416.T3

Tapioca. Cassava

Fats and oils see TP669+

Flavoring aids

418

General works

Essential oils see TP958+

419

Extracts

420

Spices, condiments

For soy sauce see TP438.S6

Sweeteners

421

General works

Nonnutritive

422

General works

423

Cyclamates

424

Saccharin

425

Stevioside

426

Natural

For honey see SF539

For sugar see TP375+

428

Verjuice

Vinegar

429

General works

429.2

Balsamic vinegar

429.5

Rice vinegar

Leavening agents and baking aids

431

General works

432

Baking powder. Cream of tartar

433

Yeast. Compressed yeast

Cereals and cereal products

434

General works



## Food processing and manufacture

## Special foods

## Cereals and cereal products -- Continued

Milling see TS2120+

435.A-Z

Special, A-Z

435.C4

Cereals, Prepared

435.C67

Corn products

Feeds see TS2284+

Flour see TS2120+

435.M3

Macaroni, spaghetti, etc. Pasta

435.O37

Oat products

Including oat bran

435.R3

Rice products

435.R83

Rye products

435.S65

Sorghum products

435.W48

Wheat products

Bakery goods see TX761+

Confectionery see TX780.2+

Seeds and seed products

Cf. TS2120+ Flours and other milled products

437

General works

438.A-Z

Special, A-Z

438.P4

Peanuts. Peanut butter

438.S6

Soybeans

Including tofu, miso, natto and soy sauce

Nuts and nut products

General works

439

Special nuts and products, A-Z

439.5.A-Z

Chestnuts

439.5.C45

Coconuts

439.5.C6

Hazelnuts

439.5.H39

Peanuts see TP438.P4

439.5.P42

Pecans

Fruit and fruit products

General works

440

Special fruits and products, A-Z

441.A-Z

Apples

441.A6

Bananas

441.B34

Berries

441.B4

Cherries

441.C45

Citrus products

441.C5

Jam. Jelly (General)

441.J3

Mangos

441.M36

Olives

441.O4

Peaches

441.P4

Pineapple

441.P54

Plums

441.P55

Prunes

441.P7

Vegetables and vegetable products

General works

443

Special vegetables and products, A-Z

444.A-Z

Asparagus

444.A8

Beans, Dried

444.B38

Beets

444.B4

Cabbage

444.C3

Corn

444.C67

## Food processing and manufacture

## Special foods

## Vegetables and vegetable products

## Special vegetables and products, A-Z -- Continued

444.C8 Cucumbers  
 444.G37 Garlic  
 444.K65 Konnyaku  
 444.M8 Mushrooms  
 444.O5 Onions  
 444.P4 Peas  
 444.P6 Potatoes  
 444.S27 Sauerkraut  
 444.S65 Spinach  
 444.S94 Sweet potatoes  
 444.T6 Tomatoes

## Algae and algae products

## General works

445  
 445.5.A-Z Special algae and products, A-Z  
 445.5.A35 Agar  
 445.5.A45 Algin  
 445.5.C35 Carrageenan

## Animal foods

Butchers' meats see TS1950+

Dairy foods see SF250.5+

Eggs see SF490+

Poultry see TS1968

Seafood see SH334.9+

## Food substitutes

## General works

446  
 447.A-Z Special, A-Z  
 447.F37 Fat substitutes  
 Margarine see TP684.M3  
 447.M4 Meat substitutes  
 Sugar substitutes see TP422+

## Special food forms and foods for special purposes

## General works

450  
 451.A-Z Special, A-Z  
 451.B38 Batters  
 Beverages see TP500+  
 Cereals, Prepared see TP435.C4  
 451.C6 Convenience foods  
 451.D53 Dietetic food  
 451.E3 Edible coatings  
 Gelatin see TP965  
 451.L67 Low-fat foods  
 451.S57 Snack foods  
 451.S67 Soups  
 453.A-Z Special food constituents, A-Z  
 453.C65 Colloids  
 453.L43 Lecithin  
 453.L56 Lipids  
 453.P45 Phenols  
 453.P64 Polysaccharides  
 453.P7 Proteins  
 453.V5 Vitamins

- Food processing and manufacture
  - Special foods -- Continued
    - Food additives
      - Cf. TP371.42+ Chemical preservation by use of additives
      - Cf. TX553.A3 Nutrition
    - General works
    - Special additives, A-Z
      - Acids
      - Bacterial starter cultures
      - Colorants
      - Enzymes
      - Hydrocolloids
        - Cf. TP979.5.H93 Gums and resins
    - Koji
  - Low temperature engineering. Cryogenic engineering
    - Cf. TP243 Compressed and liquefied gases
    - Cf. TP363 Heating, drying, cooling, evaporating, etc.
  - Periodicals, societies, congresses, etc.
  - General works
  - Refrigeration and icemaking
    - Periodicals, societies, congresses, etc.
    - Dictionaries and encyclopedias
    - Directories
    - General works
      - Early to 1850
      - 1850-
    - Juvenile literature
    - Study and teaching
    - Theory. Thermodynamics
    - Domestic refrigeration
      - Cf. TP496+ Refrigerators
    - Miscellaneous special topics
      - Cf. TP495+ Machinery
    - Refrigerants
      - General works
      - Special refrigerants, A-Z
        - Dry ice
        - Hydrocarbons
    - Thermoelectric cooling
      - Cf. QC621+ Thermoelectricity. Thomson effect. Peltier effect
  - Cold storage of food see TP372.2
  - Freezing of food (Food processing industry) see TP372.3
  - Freezing of food (Home methods) see TX610
  - History
    - General works
    - Special countries, A-Z
  - Machinery
    - Including catalogs
    - For refrigerators see TP496-497
  - General works
  - Special parts and equipment, A-Z
    - Thermostatic expansion valves
  - Refrigerators
    - General works
    - Electric, gas, etc.
  - Periodicals, societies, etc.

- Refrigeration and icemaking
  - Refrigerators
    - Electric, gas, etc. -- Continued
  - General works
- 497.A2-Z
- 498 Ice cutting and storage
  - Cf. NA6360 Commercial icehouses
  - Cf. NA8350 Private icehouses
- Fermentation industries. Beverages. Alcohol
  - Cf. HD9350+ Economics
  - Cf. TP371.44 Preserving food by fermentation
  - Cf. TX726+ Cooking using alcoholic or fermented beverages
- 500 Periodicals, societies, etc.
- 500.5 Directories
- 501 Congresses
- Exhibitions
  - General works
  - By region or country, A-Z
    - Subarrange each country by Table T4b
- 503 Dictionaries and encyclopedias
  - General works
    - Early to 1800
    - 1800-
  - General special
  - Popular works
  - Handbooks, tables, etc.
  - Analysis. Testing
  - Use of the microscope
    - Cf. QR151+ Microorganisms of fermentation
- 517 Apparatus, instruments, tools, etc.
  - Cf. TP659.A1+ Bottling supplies, containers, etc.
- History
  - Cf. TP544+ Wines
  - Cf. TP573.A1+ Brewing
- 520 General works
- 521 Ancient
- 522 Medieval
- 523 Modern
- America
  - General works
  - United States
    - General works
    - Special states, A-W
  - Canada
  - West Indies
  - Mexico and Central America
  - South America
- 526
- 527
- 528
- 529
- 530
- 531
- 532
- 533.A-Z Europe, A-Z
- 534.A-Z Asia, A-Z
- 535.A-Z Africa, A-Z
- 536 Australia
- 536.5 New Zealand
- 537 Pacific islands
- Study and teaching
  - General works
  - Special schools
    - Cf. TP574 Brewing and malting schools
- 540
- 543

## Fermentation industries. Beverages. Alcohol -- Continued

## Wine and winemaking

Cf. BM523.5.W5 Judaism

- 544 Periodicals, societies, congresses, etc.  
 546 Dictionaries and encyclopedias  
 546.5 Directories  
 Biography  
 547.A1 Collective  
 547.A5-Z Individual, A-Z  
 General works  
 547.5 Early to 1800  
 548 1800-  
 548.2 Amateurs' manuals  
 548.5.A-Z Special topics, A-Z  
 548.5.A38 Adulteration  
     Including chaptalization  
 548.5.A5 Analysis, testing, etc.  
 548.5.A6 Apparatus and supplies  
 548.5.A93 Auctions  
 548.5.B9 By-products  
 548.5.C53 Clarification  
 548.5.C64 Color  
 548.5.F55 Flavor and odor  
 548.5.L32 Labels  
 Microbiology see QR151+  
 Odor see TP548.5.F55  
 548.5.P7 Preservatives  
 548.5.S35 Sanitation  
 548.5.S7 Sterilization  
 548.5.T68 Tourism  
 548.6.A-Z Special types, A-Z  
     For special types of wines by locality see TP553+  
 548.6.O74 Organic wines  
 548.6.P56 Pinot noir wines  
 548.6.R43 Red wines  
 Rice wines see TP579  
 548.6.R67 Rosé wines  
 548.6.S65 Sparkling wines  
 549 History  
 Special countries  
     France  
         553 General works  
         555 Champagne  
         United States  
             557 General works  
             557.5.A-W States, A-W  
     Other regions and countries, A-Z  
 560 Unfermented grape juice. Must  
 561 Fruit wines. Flower wines  
 Fruit juices  
     Cf. TP636 Syrups  
     Cf. TP656+ Noncarbonated fruit beverages  
 562.A1 Periodicals. Societies. Serials  
 562.A2 Congresses  
 562.A3-Z General works  
 562.5.A-Z Special fruit juices, A-Z

- Fermentation industries. Beverages. Alcohol
- Fruit juices
    - Special fruit juices, A-Z -- Continued
  - 562.5.O73 Orange juice
  - Cider
    - 563 General works
    - 564 Unfermented apple juice
    - 564.5 Perry
    - 565 Fermented milk
      - Including kefir and kumiss
  - Brewing and malting
    - Cf. TH4531 Brewery design and construction
    - 568 Dictionaries and encyclopedias
    - General works
      - 569 Early to 1800
      - 570 1800-
      - 572 Directories
    - History
      - 573.A1 General works
      - 573.A3-Z Special countries, A-Z
    - Biography
      - 573.5.A1 Collective
      - 573.5.A2-Z Individual, A-Z
    - Schools
    - Special types
      - For special types of brewed or malted beverages by locality see TP573.A3+
    - 577 Beer
    - 578 Ale
      - Including porter, stout, etc.
    - 579 Rice beer. Rice wines
      - Including saké and makkölli
    - Yeast in brewing
      - 580 General works
      - 581 Pure-culture yeast
    - 583 Water in brewing
    - 585 Hops in brewing
    - 587 Malting and malt
  - Other fermented beverages, A-Z
    - 588.A-Z Guarapo
    - 588.G8 Kvass
    - 588.K86 Mead
    - 588.M4 Pulque
    - 588.P8
  - Distilling
    - General works
      - 589 Early to 1800
      - 590 1800-
    - History
      - 590.5 General works
      - 590.6.A-Z Special regions or countries, A-Z
    - Biography
      - 591.A1 Collective
      - 591.A2-Z Individual, A-Z
    - 592 General special
      - Including fermentation of molasses

- Fermentation industries. Beverages. Alcohol
- Distilling -- Continued
- 593 Alcohol (Ethanol)  
Including denatured alcohol  
Cf. HD9399 Economics
- 594 Wood alcohol (Methanol)  
Distilled liquors  
Cf. HD9390+ Economics
- 597 General works
- 599 Brandy
- 605 Whiskey
- 607.A-Z Others, A-Z
- 607.A27 Absinthe
- 607.A57 Apple brandy
- 607.A6 Aquavit
- 607.G4 Gin
- 607.K3 Kaoliang
- 607.K57 Kirsch
- 607.M46 Mescal
- 607.M66 Moonshine
- 607.R9 Rum
- 607.S5 Shochu
- 607.S65 Soju
- 607.S67 Sotol
- 607.T46 Tequila
- 607.V6 Vodka
- 609 Gaging and testing  
Including tables  
Cf. HF5716.L3+ Gaging of liquids in general
- 611 Liqueurs. Cordials
- 612 Compounding. Liquor-makers' receipts
- 617 Catalogs of liquors
- (618) Adulteration of liquors  
see TX597
- Nonalcoholic beverages
- 620 General works
- 625 Artificial mineral waters
- Carbonated beverages. Soda water
- 628 Periodicals, societies, etc.
- 629 Directories
- 630 General works
- 635 Apparatus. Soda fountains  
Including catalogs
- 636 Syrups
- Chocolate, coffee, tea, etc.
- Cf. TX583+ Adulterations
- 638 General works
- 640 Cacao. Chocolate. Cocoa
- 645 Coffee  
Cf. TD888.C6 Air pollution by coffee processing plants
- 650 Tea
- 655.A-Z Others, A-Z
- Noncarbonated fruit beverages
- Cf. TP562+ Fruit juices
- 656 General works
- 657.A-Z Special noncarbonated fruit beverages, A-Z

- Fermentation industries. Beverages. Alcohol  
   Nonalcoholic beverages  
     Noncarbonated fruit beverages  
       Special noncarbonated fruit beverages, A-Z -- Continued  
 657.L46           Lemonade  
 658                Congelation of beverages  
                   Bottling. Bottler's machinery and supplies  
                   Including labeling  
 659.A1            Periodicals, societies, etc.  
 659.A2-Z         General works  
 660                Beverage containers  
                   Oils, fats, and waxes  
                   Cf. TJ1077+ Lubricants  
                   Cf. TP447.F37 Fat substitutes (Food processing and manufacture)  
 669                Periodicals, societies, etc.  
 669.5             Congresses  
 670                General works  
 671                Analysis, testing, etc.  
 673                Bleaching of oils, fats, waxes, etc.  
 675                Sulfonated oils  
 676                Animal fats, oils, etc.  
                   Cf. TS1980+ Lard, tallow, fish oils, etc.  
                   Insect waxes  
                   General works  
 677                Beeswax  
 678                Other waxes, A-Z  
 679.A-Z          Sugarcane wax  
 679.S8            Vegetable oils and fats  
                   Cf. TP958+ Essential oils  
 680                General works  
                   Cottonseed oil  
                   Periodicals, societies, etc.  
 681.A1            General works  
 681.A2-Z         Tables, etc.  
 681.5             Linseed oil  
 682                Olive oil  
 683                Other special oils and fats, A-Z  
 684.A-Z          Bati oil  
 684.B3            Cacao butter. Cocoa butter  
 684.C2            Cashew oil  
 684.C275         Castor oil  
 684.C3            Chinese wood oil see TP684.T8  
 684.C6            Cnidocolus oil  
 684.C7            Coconut oil  
 684.C8            Corn oil  
 684.H46          Hemp seed oil  
 684.I8            Isano oil  
 684.J64          Jojoba oil  
 684.M3            Margarine  
                   Cf. HD9330.M37+ Margarine industry  
                   Oleomargarine see TP684.M3  
                   Orange oil see TP959.O7  
 684.P3            Palm oil  
 684.P4            Peanut oil  
 684.P47          Perilla oil  
 684.P85          Pumpkinseed oil



## Oils, fats, and waxes

## Vegetable oils and fats

## Other special oils and fats, A-Z -- Continued

- 684.R23 Ragweed seed oil
- 684.R3 Rape oil
- 684.R5 Rice oil
- 684.R7 Rosin oil
- 684.R83 Rubber-seed oil
- 684.S2 Sal seed oil
- 684.S53 Shea butter
- 684.S6 Soybean oil
- 684.S8 Sunflower seed oil
- 684.T3 Tall oil
- 684.T8 Tung oil. Chinese wood oil
- 684.V36 Vanaspati

## Mineral oils and waxes

- 685 General works
- 686 Analysis, testing, etc.
- 687 Reclamation of oil
- Petroleum refining. Petroleum products
  - Cf. TD888.P4 Air pollution by petroleum refineries
  - Cf. TN860+ Petroleum extraction
- 690.A1 Periodicals, societies, etc.
- 690.A2-Z General works
- 690.1 Directories of the industry see TN867
- 690.2.A-Z History
- 690.25 By region or country, A-Z
- 690.3 Juvenile works
- 690.4 Refineries, refinery equipment, automatic control
  - Cf. TH4571 Construction of refineries
- 690.45 Cracking process
- 690.5 Other special processes (not A-Z)
  - Including alkylation, hydrogenation, etc.
- 690.6 Patents
- 690.8 Safety measures and equipment
  - Cf. TH9445.P4 Fire prevention and extinction in petroleum refineries
- 690.8 General special
  - Including corrosion
- 691 Oil inspection, analysis, testing, standards, etc.
- 692 Tables
- Special products
  - 692.2 Gasoline
  - 692.25 Unleaded gasoline
  - 692.3 Chemicals
  - 692.4.A-Z Other products, A-Z
    - 692.4.A8 Asphalts
    - 692.4.B5 Bitumen
    - 692.4.C6 Coke
    - 692.4.H9 Hydrocarbons
    - 692.4.K4 Kerosene
    - 692.4.M3 Mazut
    - 692.4.N3 Naphtha
    - 692.4.O3 Oil gas
    - 692.4.P3 Paraffins
    - 692.4.S9 Sulfur compounds
    - 692.4.T6 Toluene

- Oils, fats, and waxes
  - Mineral oils and waxes
    - Petroleum refining. Petroleum products
      - Special products -- Continued
        - 692.5 Oil and gasoline handling and storage
        - 693 Paraffin
        - 695 Ozokerite, ceresin, etc. Natural paraffin
          - Cf. TN857 Mineral resources, mining, etc.
        - 698 Synthetic petroleum and its products
        - 699 Shale oil and its products
          - Cf. TN858+ Mineral industries
- Illuminating industries (Nonelectric)
  - Cf. HD4486+ Municipal lighting industries
  - Cf. TH7700+ Domestic illumination
  - Cf. TK4125+ Electric lighting
- 700 Periodicals, societies, etc.
- Exhibitions
  - 702.A1 General works
  - 702.A2-Z By region or country, A-Z
    - Subarrange each country by Table T4b
- 703 Congresses
- 704 Dictionaries and encyclopedias
- 705 General works
- 710 Tables, pocketbooks, etc.
- 713 General special
- 714 Directories
- Lighting fixtures see TH7960+
- History
  - 715 General works
  - 716 Ancient
  - 717 Medieval
  - 718 Modern
  - 719 Nineteenth century
  - 720 Twentieth century
- Special countries
  - Including regulation, inspection, etc.
  - 721 America
  - 722 North America
    - United States
      - 724.A-.W States, A-W
      - 725.A-Z Cities, A-Z
    - Canada
      - 726.A1-.A4 General works
      - 726.A5-.Y Special provinces, A-Y
      - 727.A-Z Cities, A-Z
    - Mexico
      - 728.A1-.A4 General works
      - 728.A5-Z Special states, A-Z
    - West Indies
      - 729.A1-.A4 General works
      - 729.A5-Z Special islands, A-Z
    - South America
      - 730 General works
      - 731.A-Z Special countries, A-Z
        - Subarrange each country by Table T4a
  - Europe

- Illuminating industries (Nonelectric)
    - Special countries
      - Europe -- Continued
        - 732 General works
        - 733.A-Z Special countries, A-Z
          - Subarrange each country by Table T4a
      - Asia
        - 734 General works
        - 735.A-Z Special countries, A-Z
          - Subarrange each country by Table T4a
      - Africa
        - 736 General works
        - 737.A-Z Special countries, A-Z
          - Subarrange each country by Table T4a
      - Australia
        - 738 New Zealand
        - 738.5 Pacific islands
    - Street lighting
      - 741 Cf. TK4188 Electric lighting
    - Torches
      - 743 Candles see TP993
    - Lamps
      - 746 Ancient lamps see NK4680
  - Gas industry
    - Periodicals, societies, etc. see TP700
    - Congresses see TP703
    - Dictionaries and encyclopedias see TP704
    - Directories see TP714
    - History see TP715+
    - Special countries see TP721+
    - 751 General works
    - 751.1 General special
      - Including corrosion and its prevention
    - 751.3 Business management
    - 751.5 Popular works
    - 751.6 Juvenile works
    - 751.7 Coal, oil, shale, and other resources for gas manufacture
    - 752 Gasworks
      - For special plants see TP721+
    - 753 Tables, pocketbooks, etc.
    - 754 Analysis, tests, recorders, purification, etc.
    - 755 By-products
    - 756 Gas storage. Gasholders
    - 756.5 Underground storage
    - 757 Distribution. Mains, pipes, etc.
    - 758 Uses of gas
      - Cf. TH6800+ Gas in guildings
      - Cf. TP345.A1+ Gas as fuel
    - Natural gas (Mining engineering) see TN880+
    - Natural gas fuel see TP350
  - 759 Gasification of coal and oil
    - Including underground gasification of coal
    - Cf. TP336 Coke, carbonization of coal
    - Cf. TP751.7 Coal and oil resources for gas manufacture
    - Cf. TP762 Gas producers
  - 760 Water gas

- Gas industry -- Continued
- 761.A-Z Other special kinds, A-Z
- 761.B8 Butane
- 761.C65 Compressed gas
- 761.L5 Liquid gas
- 761.M4 Methane
- 761.M44 Methylpropene
- 761.M7 Mond gas
- 761.P4 Petroleum gas
- 761.P9 Producer gas
- 761.P94 Propane
- Sludge gas see TD769.4
- 762 Gas producers for industrial purposes
- Acetylene industry
- 765 Periodicals, societies, etc.
- 767 General works
- 769 Apparatus
- 770 Manufacture from calcium carbide
- Clay industries. Ceramics. Glass
- Cf. HD9590+ Economics
- Cf. NK3700+ Ceramics (Art industries)
- Cf. NK5100+ Glass (Art industries)
- Cf. TA430 Ceramic materials
- Cf. TA450 Glass in engineering
- Cf. TN941+ Mineral industries
- Cf. TT919+ Pottery craft
- 785 Periodicals, societies, etc.
- For periodicals on glass alone see TP845
- 786 Congresses
- Exhibitions. Museums
- 787.A1 General works
- 787.A2-Z By region or country, A-Z
- Subarrange each country by Table T4b
- 788 Dictionaries and encyclopedias
- 789 Directories
- 790 Collected works (nonserial)
- History
- 791 General works
- 792 Ancient
- 793 Medieval
- 794 Modern
- Country divisions
- 797 America
- United States
- General works
- States, A-W
- Cities, A-Z
- 801 Canada
- 802.A-Z Other American countries, A-Z
- Europe
- General works
- By region or country, A-Z
- 804.A-Z Other countries, A-Z
- Biography
- 805 General works
- 806.A-Z Individual, A-Z

- Clay industries. Ceramics. Glass -- Continued  
 Potters' marks see NK4215  
 Ceramic technology. Pottery  
 General works  
 807.A2 Early to 1800  
 807.A3-Z 1800-  
 808 Popular works  
     For pottery craft see TT919+  
 808.2 Juvenile works  
 809 Tables, calculations, etc.  
 809.5 Equipment and supplies  
     For kilns see TP841+  
 810 Chemistry of pottery  
 810.5 Materials  
 811 Clay and clay analysis  
     Cf. TN941+ Mineral industries - Clay  
 811.5 Ceramography  
 Glazes, enamels, etc.  
     Cf. NK4997+ Enamels (Art)  
     Cf. TP823 Pottery decorating  
 812.A1 Periodicals, societies, etc.  
 812.A2-Z General works  
 814 Technical processes  
     Including finishing, cutting, machining, etc.  
 815 General special  
     Including studies of clay, vitrification, dehydration, saggars  
 816 Study and teaching  
 817 Pottery machinery  
 818 Catalogs of pottery, stoneware, porcelain, glass, etc.  
 820 Earthenware. Stoneware  
 822 Porcelain  
 823 Technology of ceramic decoration. Glazes, engobes, colors  
 Architectural ceramics  
 825 General works  
 Bricks and brickmaking  
     Cf. TA432+ Properties of bricks  
 Special countries  
 826 United States  
 826.5.A-Z Other countries, A-Z  
 General works  
 827.A1 Early to 1800  
 827.A2-Z 1800-  
 827.5 Juvenile works  
 828 General special  
 829 Brickmaking machinery, etc.  
 831 Pressed brick  
 832.A-Z Other varieties. By name, A-Z  
 832.A35 Adobe brick  
 832.C5 Clinker brick  
 832.C6 Cob  
 832.F5 Firebrick  
 832.G6 Glazed brick  
 832.G7 Granite brick  
 832.H7 Hollow brick  
 832.L7 Lock-joint brick  
 832.S2 Sand-lime brick

- Clay industries. Ceramics. Glass
- Architectural ceramics
- Bricks and brickmaking -- Continued
- 833 General catalogs
- 835 Terra-cotta
- Cf. TA432+ Properties of terra-cotta
- 837 Tiles
- Cf. NA3705 Architectural decoration
- Cf. NK4670+ Art industries
- Cf. TA432+ Properties of tile
- Cf. TH8521+ Tile laying and tile decoration
- Cf. TT927 Tile craft
- 838 Fireclay products and other refractories
- Cf. TA418.26 Engineering properties of refractories
- Cf. TA455.F5 Engineering properties of fireclay
- Cf. TN677+ Metallurgical plants. Metallurgical furnaces and refractory materials
- Cf. TP832.F5 Firebricks
- 839 Drain tile. Sewer pipe
- Including those made of clay, cement, etc.
- Cf. TA447 Testing
- Cf. TD682 Sewers
- Cf. TP885.P5 Cement pipe
- Salt glazes, etc. see TP812.A1+
- Kilns
- Cf. TT924 Pottery craft
- 841 General works
- 842.A-Z Special, A-Z
- 842.H7 Hoffman's kiln
- 842.T8 Tunnel kilns
- Glass and glassmaking
- Cf. NK5100+ Art industries
- 845 Periodicals, societies, etc.
- Cf. TP785 Ceramics and glass
- Exhibitions. Museums
- 846.A1 General works
- 846.A2-Z By region or country, A-Z
- Subarrange each country by Table T4b
- 847 Directories
- 848 Collected works (nonserial)
- History
- 849 General works
- 850 Ancient
- 851 Medieval
- 852 Modern
- Special countries
- United States
- 853.A1-.A3 General works
- 853.A5-.W Special states, A-W
- 854.A-Z Other countries, A-Z
- 855 Study and teaching
- General works
- 856 Early to 1800
- 857 1800
- 857.3 Popular works. Juvenile works
- 857.5 Tables, calculations, etc.

- Clay industries. Ceramics. Glass  
Glass and glassmaking -- Continued
- 858 General special  
Including safety measures, patents, etc.  
Analysis see QD139.G5
- 858.2.A-Z Special aspects, A-Z  
858.2.M37 Mathematical models  
859 Glassblowing, manipulation, etc.  
Cf. QD63.G5 Chemical laboratory manipulation  
Cf. TT298 Glass craft
- 859.5 Machinery, furnaces and other special equipment  
859.7 Waste glass. Glass recycling  
860 Plate glass  
860.5 Glass fibers  
Cf. TA450 Engineering materials  
Cf. TS1549.G5 Textile industries
- 861 Cut glass  
861.5 Colored glass  
862 Other special varieties of glass  
Ornamental glass used in buildings, etc.  
Cf. NK5300+ Decorative arts  
Cf. TH8271+ Decoration of buildings  
Cf. TT298 Handicrafts
- 863 General works  
864 Sand-blast process  
Glassware. Articles made of glass  
For early American pressed glass see NK5112
- 865 General works  
866 Bottles  
Including thermos bottles  
Cf. TP659.A1+ Bottling
- 867 Mirrors and mirror-frames  
Optical glass see QC375  
867.3 Glass-ceramic pipe  
868 General catalogs and trade publications  
869 Soluble glass. Water glass  
870 Artificial minerals  
871 Artificial stone  
Cf. TP832.G7 Granite brick  
Cf. TP832.S2 Sand-lime brick  
Cf. TP875+ Cement industries
- Artificial gems  
873 General works  
873.5.A-Z Special, A-Z  
873.5.D5 Diamonds
- Cement industries. Cement, lime, mortar, plaster, etc.  
Including industrial processes only  
For engineering properties and on-site preparation see TA434+
- 875 Periodicals, societies, etc.  
Directories
- 876.A2 General works  
876.A4-Z By region or country, A-Z  
877 General works  
Special countries  
United States
- 879.A1 General works

- Cement industries. Cement, lime, mortar, plaster, etc.
- Special countries
  - United States -- Continued
  - 879.A2-.W States, A-W
  - 880.A-Z Other countries, A-Z
- Cement manufacture
  - Including concrete when used for the factory-made products provided for in TP885
  - 881 General works
  - 882 Plants and equipment
  - 882.3 Analysis of cement
  - 883 Portland cement
  - 884.A-Z Other special, A-Z
    - 884.A3 Additives
    - 884.A48 Alumina cement
    - 884.A8 Asbestos cement
    - 884.A85 Asphalt concrete
    - 884.C5 Clinker concrete
    - 884.L5 Lightweight concrete
    - 884.M2 Magnesia cements
    - 884.R7 Roman cement
    - 884.S3 Sand-lime products
    - 884.S6 Slag cement
    - 884.S84 Sulfoaluminate cement
    - 884.S85 Sulfur cement
  - Articles of cement or concrete
    - Class here factory made products only
    - Cf. TT295 Handicrafts
    - 885.A2 General works
    - 885.A5-Z Special. By name, A-Z
    - 885.C7 Concrete blocks and slabs
      - Cf. TH1491 Concrete block building construction
    - 885.F7 Fountains
    - 885.G3 Garden furniture
    - 885.L3 Lampposts
    - 885.M7 Monuments
    - 885.P5 Pipe and tile
      - Cf. TA447 Pipes of cement and clay
      - Cf. TP839 Draintile and sewer pipe
    - Sidewalks, curbs see TE291
    - 885.T7 Trusses
  - 886 Lime and limekilns
    - Cf. TP841+ Kilns
  - 887 Mortar
  - 888 Plaster and other gypsum products
    - Cf. TH8135+ Building trades
  - 889 Magnesia industries
  - Textile bleaching, dyeing, printing, etc.
    - Cf. TS1474.5 Textile chemistry
    - Cf. TT852+ Textile crafts
  - 890 Periodicals, societies, etc.
  - 890.5 Congresses
  - 891 Directories
  - 892 Theory
    - Including color combinations, etc.
  - 893 General works
  - Bleaching, cleaning, scouring



- Textile bleaching, dyeing, printing, etc.  
 Bleaching, cleaning, scouring -- Continued
- 894           General works  
 894.5        Bleaches  
 895           Cleaning  
               Cf. TP932+ Commercial garment cleaning  
               Cf. TP990+ Cleaning compounds
- Dyeing  
               Cf. NK9500+ Textile decoration
- 897           General works  
               Dyeing of cotton see TP930+
- 899           Dyeing of wool  
 901           Dyeing of silk  
 902           Dyeing of artificial silk  
 903           Dyeing of linen  
 904           Dyeing of synthetic textile fibers  
               Dyeing of fur see TS1060+  
               Dyeing of leather see TS967  
               Dyeing of paper see TS1118.D9
- 907           Special colors. Effects, shades, not dyes  
               Including khaki, etc.
- 908           Dyeing of special articles  
               Garment dyeing, Commercial see TP932+  
               Garment dyeing, Home see TT853+
- Dyes  
               Periodicals, societies, etc. see TP890
- 910           General works  
               Artificial dyes
- 913           General works  
 914           Coal-tar colors. Aniline dyes. Azo dyes  
 915           Anthracene dyes  
 918.A-Z      Other special dyes, A-Z  
 918.A4      Alizarin  
               Alizarin black see TP918.N2  
 918.A5      Aniline black  
 918.A6      Anthraquinones  
               Artificial indigo see TP924  
 (918.A9)    Azo dyes  
               see TP914
- 918.C37     Carbazoles  
 918.C9      Cyanines  
 918.I5      Induline  
 918.N2      Naphthazarin. Alizarin black  
 918.P65     Polymethines  
 918.S8      Sulfur dyes  
 918.V37     Vat dyes
- Natural dyes
- 919           General works  
               Indigo
- 923           General works  
 924           Artificial indigo
- 925.A-Z      Other special dyes, A-Z  
 925.C38     Catechu  
 925.C63     Cochineal  
 925.K35     Kamala  
 925.M33     Madder

- Textile bleaching, dyeing, printing, etc.
- Dyeing
    - Dyes
      - Natural dyes
        - Other special dyes, A-Z -- Continued
        - 925.P9 Purple
        - 925.S23 Safflower
        - 925.W8 Woad
      - 927 Mordants
      - 929 Miscellaneous
  - Textile printing. Calico printing. Cotton dyeing
    - Cf. NK9500+ Textile decoration
    - Cf. TS1475 Textile design
    - 930 General works
    - 930.5 Machinery
    - 931.A-Z Special, other than cotton or calico, A-Z
    - 931.C2 Carpet yarns
    - 931.S6 Silk fabrics
  - Commercial garment cleaning and dyeing
    - Cf. TT853+ Textile crafts
    - Cf. TT980+ Laundry
    - 932 General works
    - 932.3 Dry cleaning
    - 932.5 Wet cleaning
    - 932.6 Spotting
    - 933 Feather renovating, etc.
  - Paints, pigments, varnishes, etc.
    - Class here manufacture only
    - Cf. ND1500+ Fine arts
    - Cf. TT300+ Industrial painting
    - 934 Periodicals, societies, congresses, etc.
    - 934.3 Dictionaries and encyclopedias
    - 934.5 Directories
    - General works
      - Documents
        - United States
          - 935.A2U4-.A2U5 Serial
          - 935.A2U6 Special. By date
          - 935.A3A-.A3W By state, A-W
          - 935.A4A-.A4Z Other countries, A-Z
          - 935.A5-Z Nonofficial works
    - Paints and pigments. Zinc oxide. Iron oxide
      - Cf. TP682 Linseed oil
      - Cf. TP951 Blacks (Pigments)
      - Cf. TP977+ Turpentine, etc.
      - 936 General works
      - 936.5 Paint analysis, testing, etc.
      - 937 Catalogs
      - 937.5 Paint machinery
        - Including machines used for grinding, mixing, etc.
      - 937.7 Driers, thinners, fillers, etc.
      - 937.8 Paint removers
      - 938 Varnishes. Shellac
      - 939 Lacquers and enamels
      - 940 Polishes
      - 941 Putty

- Paints, pigments, varnishes, etc. -- Continued
- 942 Japanning materials
- 944 Blacking materials
- 945 High solids coatings
- Ink manufacture
- Cf. Z45 History of writing materials
- Cf. Z112 Paleography
- 946 General works
- 947 History
- 948.A-Z Particular inks. By name, A-Z
- 948.A8 Arnold's fluid
- Printers' ink
- Cf. Z247 Printing
- 949 General works
- 949.9 Catalogs of dealers
- 949.95 Other special inks
- Including inks for recording instruments
- Miscellaneous organic chemical industries
- 950 General works
- 951 Blacks
- Cf. TP245.C4 Carbon
- 953 Coal products, coal tar, etc.
- Cf. TP914 Dyes
- 955 Dentifrices
- Essences, essential oils and ethers
- Cf. RS201.E7 Pharmacy
- Cf. TP680+ Vegetable oils
- 958 General works
- 959.A-Z Special substances, A-Z
- Attar of roses see TP959.R6
- 959.B4 Bergamot oil
- 959.C5 Citronella oil
- 959.C54 Citrus oils
- 959.E9 Eucalyptus oils
- 959.L4 Lemongrass oil
- 959.M8 Mustard oil
- 959.O7 Orange oil
- 959.P4 Peppermint oil
- 959.P5 Pine oil
- 959.R6 Rose oil. Attar of roses
- 959.S2 Sassafras oil
- Fertilizers
- Cf. S631+ Use of fertilizers
- Cf. TD772 Manufacture of fertilizer from sewage sludge
- 963 General works
- 963.4.A-Z Special fertilizers, A-Z
- 963.4.A38 Ammonium phosphate
- 963.4.A4 Ammonium sulfate
- 963.4.C3 Calcium cyanamide
- 963.4.N5 Nitrogen
- 963.4.S9 Superphosphates
- 963.4.U7 Urea
- 965 Gelatin
- Glue and other adhesives
- Cf. TS857 Wood adhesives
- 967 Periodicals, societies, congresses, etc.

- Miscellaneous organic chemical industries  
 Glue and other adhesives -- Continued
- 967.6 Directories  
 968 General works  
 970 Mucilage and pastes  
 971 Pressure-sensitive adhesives  
 973 Glycerin
- Gums and resins. Turpentine, etc.  
 Cf. TP1101+ Plastics
- 977 Periodicals  
 978 General works  
 979 Resinography  
 979.5.A-Z Special, A-Z  
 979.5.B4 Benzoin  
 979.5.H93 Hydrocolloids  
 Cf. TP456.H93 Food additives
- 979.5.I6 Ion exchange resin  
 979.5.P6 Polysaccharides
- Perfumes, cosmetics, and other toilet preparations  
 Periodicals, societies, congresses, etc.  
 983.A1-.A5 Dictionaries and encyclopedias  
 983.A55 Directories  
 983.A6 Biography  
 983.A65 Collective  
 983.A66A-.A66Z Individual, A-Z  
 983.A7-.Z4 General works  
 983.Z5 Trade publications  
 983.3 Cosmetic delivery systems  
 984 Hair preparations  
 Including shampoos, hair conditioners, etc.
- 985 Antiperspirants, deodorants, etc.  
 (986-987) Plastics  
 see TP1101+
- 988 Sealing. Sealing compounds  
 Soap, cleaning compounds, etc.  
 Cf. TP895 Cleaning
- 990 General works  
 991 Soaps  
 992 Metallic soaps  
 992.5 Other cleaning compounds  
 993 Candles  
 Cf. TP669+ Oils, fats, and waxes  
 Cf. TS1980+ Lard, tallow, etc.  
 Cf. TT896.5 Handicraft
- 994 Surface active agents  
 Utilization of wastes  
 Prefer field of application  
 Cf. TS169 Waste control
- 995.A1 Periodicals, societies, etc.  
 995.A2-Z General works  
 996.A-Z Special, A-Z  
 996.B3 Bagasse  
 996.C6 Corncobs  
 996.C7 Cornstalks  
 996.C75 Cotton  
 996.F5 Fish

- Utilization of wastes  
 Special, A-Z -- Continued
- 996.T5 Tin  
 996.W6 Wood  
     Cf. TS875 Fiberboard, particle board, etc.
- 997 Wood distillation  
     Cf. TS920+ Chemical processing of wood
- Polymers and polymer manufacture  
     Cf. QD281.P6 Polymerization (Chemistry)  
     Cf. QD380+ Polymer chemistry  
     Cf. TA455.P58+ Engineering materials  
     Cf. TP156.P6 Polymerization (Chemical engineering)  
     Cf. TP248.65.P62 Polymers (Biotechnology)
- 1080 Periodicals, societies, etc.  
 1081 Congresses  
 1087 General works  
 1088 Popular works  
 1089 Juvenile works  
 1091 Handbooks, tables, etc.  
 1092 General special  
     Technical processes see TP1150+  
     Special polymers see TP1180.A+  
     Special forms see TP1183.A+  
     Special products see TP1185.A+  
     Elastomers, synthetic rubber see TS1925  
     Synthetic fibers see TS1548.2+  
     Plastics  
       Cf. HD9661+ Economics  
       Cf. TA455.P5+ Engineering materials  
       Cf. TA668 Structural engineering  
       Cf. TJ1194 Materials used in machine and hand tools  
       Cf. TT297+ Plastic craft
- 1101 Periodicals, societies, etc.  
 (1103) Yearbooks  
     see TP1101
- 1105 Congresses  
 Exhibitions. Museums
- 1107.A1 General works  
 1107.A2-Z By region or country, A-Z  
     Subarrange each country by Table T4b
- 1109 Collected works (nonserial)  
 1110 Dictionaries and encyclopedias  
 1111 Plastics literature  
 1112 Directories  
 1114 Patents  
 History
- 1116 General works  
 Special countries
- 1117 United States  
 1118.A-Z Other countries, A-Z
- Biography
- 1119.A1 Collective  
 1119.A2-Z Individual, A-Z
- 1120 General works  
 1122 General special  
 1124 Popular works

- Polymers and polymer manufacture
  - Plastics -- Continued
    - 1125 Juvenile works
    - Study and teaching
      - 1127 General works
      - 1129 Laboratory manuals
      - 1130 Handbooks, manuals, tables, etc.
      - 1132 Catalogs
      - 1135 Plastics plants and equipment
      - 1140 Technical chemistry of plastics (Analysis)
        - For testing for mechanical properties see TA455.P5+
        - For use of plastics in fireproof construction see TH1074
    - 1142 Additives
      - For plasticizers see TP247.7
    - 1145 Handling, packing, etc.
    - 1148 Safety measures
    - Technical processes
      - For general works see TP1120
      - Molding and casting
        - 1150 General works
        - 1151.A-Z Special molding and casting processes, A-Z
        - 1151.C56 Closed molding
          - For specific closed molding processes see the process, e.g., Resin transfer process, TP1151.R47
        - 1151.I55 Injection blow molding
        - 1151.L37 Laser sintering
        - 1151.R43 Reaction injection molding
        - 1151.R47 Resin transfer molding
        - 1151.T48 Thermoforming
      - 1155 Machining and cutting
      - 1160 Welding
      - 1165 Joining and bonding
      - 1170 Finishing and decorating
      - 1175.A-Z Other processes, A-Z
        - 1175.C3 Calendering
        - 1175.E9 Extrusion
        - 1175.M4 Metal coating
          - Class here works on metal coatings on plastics
        - 1175.M5 Mixing
        - 1175.P84 Pultrusion
        - 1175.R43 Recycling
        - 1175.S6 Spraying with plastics
          - For powder coating of metals see TS699
    - Reinforced plastics
      - 1177 General works
      - 1177.5.A-Z Special reinforcement materials, A-Z
        - 1177.5.A8 Asbestos
        - 1177.5.F5 Fibers
        - 1177.5.G5 Glass
    - 1180.A-Z Special plastics, A-Z
      - 1180.A15 ABS resins
      - 1180.A33 Acetal resins
      - 1180.A35 Acrylic resins
      - 1180.A5 Aminoplastics
      - 1180.A58 Antimicrobial polymers
      - 1180.B3 Bakelite

## Polymers and polymer manufacture

## Plastics

## Special plastics, A-Z -- Continued

1180.B55	Biodegradable plastics
1180.C2	Casein
1180.C4	Cellophane
1180.C5	Celluloid
1180.C6	Cellulose
1180.D45	Dendrimers
1180.D5	Diallyl phthalate
1180.E6	Epoxy resins
1180.F5	Fiberloid
1180.F6	Fluorocarbons
1180.F8	Furans
1180.G8	Gum plastics
1180.I5	Indene resins
1180.L8	Lucite
	Nylon see TP1180.P55
1180.P39	Phenolic resins
1180.P4	Phenolite
1180.P5	Plexiglas
1180.P53	Polyacetylenes
1180.P54	Polyacrylamides
1180.P55	Polyamides. Nylon
1180.P552	Polyanilines
1180.P553	Polyaryethers
1180.P555	Polybischloromethyloxetane
1180.P56	Polybutenes
1180.P57	Polycarbonates
1180.P6	Polyesters
1180.P65	Polyethylene
1180.P653	Polyethylene glycol
1180.P655	Polyethylenimine
1180.P66	Polyimides
1180.P663	Polyketones
1180.P666	Polymer liquid crystals
1180.P67	Polyolefins
1180.P678	Polyphenylene oxide
1180.P68	Polypropylene
	Polystyrene see TP1180.S7
1180.P685	Polysulphides
1180.P7	Polytetrafluorethylene
1180.P8	Polyurethanes
	Polyvinyl see TP1180.V48
1180.S7	Styrene. Polystyrene
1180.T4	Tenite
1180.T5	Thermoplastics
1180.T55	Thermosetting plastics
1180.U7	Urea-formaldehyde resins
1180.V42	Vinidur
1180.V48	Vinyl. Polyvinyl
1180.W37	Water-soluble polymers
1183.A-Z	Special forms, A-Z
1183.B3	Bars
1183.F5	Films
1183.F6	Foamed plastics

## Polymers and polymer manufacture

## Plastics

## Special forms, A-Z -- Continued

- 1183.L3 Laminated plastics
- 1183.M5 Microcrystalline polymers
- 1183.P68 Powders
- Reinforced plastics see TP1177+
- 1185.A-Z Special products, A-Z
- (1185.C6) Containers
  - see TS198.3.P5
- (1185.E4) Electric apparatus and appliances
  - see TK454.4.P55
- (1185.E5) Electric insulators
  - see TK3441.P55
- 1185.E9 Eye protectors
- 1185.F8 Furniture
- 1185.H4 Helmets
- Lenses for optical instruments see TS517.5.P5
- 1185.M3 Machine parts
- 1185.P5 Pipe
  - Cf. TA448 Testing of plastic pipe
  - Cf. TH6330 Plastic pipes in plumbing
- 1185.R46 Resins
- 1185.S65 Sporting surfaces
- 1185.T3 Tanks
- 1185.T5 Tiles



## Photography

- Cf. BP190.5.A7 Islam and photography
- 1 Periodicals. Societies. Almanacs
- 5 Congresses
- Exhibitions. Museums
- Cf. TR646.A+ Exhibitions of artistic photography
- 6.A1 General works
- 6.A2-Z By region or country, A-Z
- Subarrange each country by Table T4b
- 6.5 Collectors' manuals. Collections of old photographs and photographic equipment
- 7 Collected works (nonserial)
- 9 Dictionaries. Encyclopedias
- Communication of photography information
- General works
- 10 Computer network resources
- Including the Internet
- 12 Directories. Bluebooks
- 15 History (General)
- 21-127 Country divisions (Table T1a)
- Add country number in table to TR0
- Biography
- Prefer TR650+ for collections of artistic photographs by one photographer where biographic material is slight
- 139 Collective
- 140.A-Z Individual, A-Z
- General works
- Early to 1850
- 145 1850-
- 146 Elementary works. Handbooks, manuals, etc.
- 147 General special
- Including manipulation, causes of failures, etc.
- Image analysis. Image authentication see TA1654
- 148 Photographic amusements. Trick photography. Special effects
- 149 Popular works. Juvenile works
- 150 Photographers' reference handbooks
- 151 Tables, formulas, etc.
- 154 Photography as a profession
- 161 Study and teaching
- 162 Examinations, questions, etc.
- 179 Composition
- 183 Psychology, aesthetics, etc.
- Cf. TR640+ Artistic photography
- 184 Political aspects
- 185 Addresses, essays, lectures
- 187 Photographic criticism
- (193-195) Law. Legislation
- see class K
- Materials, supplies, etc.
- 196 General works
- Including testing
- 196.5.A-Z Special companies, A-Z
- 197 Catalogs of apparatus
- 198 Catalogs of materials and supplies

- Materials, supplies, etc. -- Continued
- 199 Catalogs of photographs (General)  
     For catalogs of photographs on specific subjects, see the subject  
     For catalogs of photographs treated as an information resource see ZA4650+  
     Cf. TR640+ Artistic photography
- Theory of photographic processes in general
- 200 General works  
     Photographic chemistry and chemicals
- 210 General works
- 212 Photographic chemicals  
     Photographic physics
- 215 General works
- 220 Photographic optics
- 222 Properties of the photographic image. Image science
- 225 Recovery of photographic waste
- Cameras
- 250 General works  
     Prefer TR263 for special makes of cameras  
     Motion picture cameras see TR880
- 256 Digital cameras
- 257 Medium format cameras
- 257.5 Streak cameras
- 258 View cameras
- 259 Stereoscopic cameras
- 260 Hand cameras
- 260.5 Automatic cameras. Electric eye cameras
- 260.7 Autofocus cameras
- 261 Reflex cameras
- 262 Miniature cameras
- 262.5 Mirrorless interchangeable-lens cameras
- 263.A-Z Special makes of film and digital cameras, A-Z
- 263.A35 Agfa
- 263.A7 Argus
- 263.C3 Canon
- 263.C5 Ciro-flex
- 263.C6 Contax
- 263.E75 Ernemann
- 263.E9 Exakta
- 263.F85 Fujifilm
- 263.H3 Hasselblad
- 263.K54 Kodak
- 263.K55 Konica
- 263.L4 Leica
- 263.L66 Lomo
- 263.M47 Minolta
- 263.M5 Minox
- 263.N5 Nikon
- 263.O4 Olympus
- 263.P4 Pentax
- 263.P6 Polaroid Land
- 263.R4 Retina
- 263.R6 Rollei
- 263.S66 Sony
- 263.Y3 Yashica
- 263.Z4 Zeiss
- 265 Camera accessories

- Cameras -- Continued
- Catalogs see TR197
- Digital photography
  - Cf. TA1637+ Image processing
  - Cf. TR502 Photo CDs
- 267 General works
- 267.3 Computational photography
- 267.5.A-Z Special systems, standards, software, A-Z
  - Including individual programs, e. g. Photoshop
- 267.5.A25 Adobe Camera Raw
- 267.5.A3 Adobe Photoshop
- 267.5.A33 Adobe Photoshop elements
- 267.5.A355 Adobe Photoshop lightroom
- 267.5.A64 Aperture
- 267.5.A965 Autodesk Smoke
- Corel PaintShop see TR267.5.P35
- 267.5.F55 Flickr
- 267.5.G56 GIMP
- 267.5.I57 Instagram
- 267.5.I64 iPhoto
- JPEG see TA1638
- 267.5.M53 Microsoft Digital image
- MPEG see TK6680.8.M74
- 267.5.N56 Nik Software HDR Efex Pro
- 267.5.P35 PaintShop Pro
- 267.5.P53 Picasa
- 267.5.V84 VueScan
- Spectral imaging
  - General works
  - Special topics, A-Z
  - Multispectral imaging
- 267.73 Pinhole photography
- 267.733.A-Z Instant photography
- 267.733.M85 Lenses
  - General works
  - Special, A-Z
  - Macro
    - Cf. TR684 Macrophotography
  - Telephoto
    - Cf. TR770 Telephotography
  - Wide-angle
    - Cf. TR687 Wide-angle photography
- 271.Z65 Zoom
- 272 Shutters
- Sensitive surfaces
  - Including sensitometry
- 280 General works
- 281 Plates
- 283 Films
- 285 Papers
- Photographic processing. Darkroom technique (General)
  - General works
  - Treatment of negatives
- 290 General works
- 295 Development
- 299 Intensification and reduction

- Photographic processing. Darkroom technique (General)
- Treatment of negatives -- Continued
- 305 Fixing and washing
- 310 Finishing, retouching
- 312 Contact prints
- Treatment of positives
- 320 General works
- Printing
- 330 General works
- 333 By electric or other artificial light
- 335 Fixing. Toning. Intensification
- 337 Finishing
- 340 Trimming, mounting and framing of prints
- Photographic processes
- 350 General works
- Direct positives
- 360 General works
- 365 Daguerreotype
- 370 Ambrotype
- 375 Ferrotypes (Tintype)
- Processes with salts of silver
- 385 General works
- 390 Collodion process
- 395 Emulsion processes. Aristotypes, calotypes, etc.
- 400 Other processes. Salts of silver and other metals
  - Including kallitype
- Processes with salts of iron
- 405 General works
- 415 Blueprints from photographic negatives. Cyanotypes
  - Cf. TR921 Industrial blueprints
- 416 Chrysotype
- 420 Processes with salts of platinum
- Processes with salts of metals
- 430 General works
- 433 Chromium. Ozotype, etc.
- 440 Carbon processes. Pigment processes
- 443 Oil processes. Bromoil
- 445 Gum-bichromate process. Photoaquatint
- 453 Photography of colored objects. Orthochromatic, isochromatic, etc.
  - Cf. TR510+ Color photography
- 455 Other processes
- 465 Conservation and restoration of photographs
- 470 Copying
  - Cf. TR825 Reproductions (photocopying)
  - Cf. TR835 Reproductions (microfilming)
  - Cf. TR900+ Reproductions (industrial)
- 475 Enlargement and reduction
  - Cf. TR905 Industrial reproduction
- 485 Coloring of prints. Airbrush work, etc.
- 487 Photo-oleographs
- 495 Photographs on metal, glass, cloth, leather, etc.
- 500 Photoenamels. Photoceramics
- 501 Photograph albums
- 501.5 Photobooks
- 502 Photo CDs
- Transparencies. Diapositives

TR	PHOTOGRAPHY	TR
	Transparencies. Diapositives -- Continued	
504	General works	
505	Lantern slides	
	Projectors	
	Cf. TR890 Motion picture projectors	
506	General works	
507	Catalogs	
508	Overhead projectors	
	Color photography	
	Cf. TR453 Photography of colored objects	
510	General works	
515	Materials, supplies, etc.	
	Including testing	
520	Tricolor	
525	Interference. Lippmann's process	
	General darkroom procedures. Processing of exposed film	
530	General works	
	Treatment of positives	
540	General works	
545	Printing	
	Studio and laboratory	
550	General works	
560	Darkrooms	
570	Accessories and apparatus	
573	Studio lighting	
	Portrait photography	
	Cf. TR680+ Artistic photography	
575	General works	
577	Advice to sitters	
	Including posing guides	
581	Business methods	
	For selling photographs see HF5439.P43	
	Lighting	
	Cf. TR573 Studio lighting	
	Cf. TR891 Lighting for motion pictures	
	Artificial and natural	
590	General works	
590.5	Light filters	
	Exposures	
591	General works	
592	Instantaneous	
	Including exposures of one thousandth of a second or longer	
593	High speed	
	Including exposures shorter than one thousandth of a second	
594	Multiple exposures	
	Including exposure bracketing and high dynamic range imaging	
595	Daylight	
600	Artificial light	
	Flashlight. Flash photography	
605	General works	
606	Electronic flash	
610	Night views	
615	Open air views	
620	Interiors	

## Applied photography

Class here techniques for taking and using photographs in special fields

Collections of photographs in special fields are normally classed with the field, e.g., pictorial works in natural history in QH46 views of modern Greece in DF719 pictorial works on North American Indians in E77.5

For collections of artistic photographs, however, or collections where the artistic intent is more overriding than the actual subject content see TR640+

Periodicals, exhibitions, dictionaries, etc.

see TR1+

624

General works

Artistic photography

640

Periodicals, societies, congresses, etc.

642

General works

Exhibitions

Prefer TR650+ for collections of photographs

Works of more than one photographer

United States

644

General works

645.A-Z

By city, A-Z

*Under each city:*

.x *General works*

.x2A-.x2Z *By museum, A-Z*

646.A-Z

Other regions or countries, A-Z

Subarrange each country by Table T4a

647.A-Z

Works of individual photographers. By name of photographer, A-Z

Under each photographer, arrange by date of exhibition

Class here works of individual photographers not limited by topic, e.g., class landscape photography by Ansel Adams in TR660 as well as exhibitions of their work

Collections

650

General works

By period

651

1800-1850

652

1851-1900

653

1901-1950

654

1951-2000

655

2001-

656

Abstract photography

656.5

Still life photography

Cf. TR721+ Nature photography

656.7

Photography of food

Photography of art

657

General works

658

Paintings

658.3

Sculpture

Photography of handicraft

658.5

General works

658.58

Ventriloquists' dummies

659

Architectural photography

Cf. NA2543.P46 Architecture and photography

659.5

Outdoor photography

For lighting of open air views see TR615

659.8

Street photography

Landscape photography

660

General works

660.5

Collections

661

Panoramic views

- Applied photography
- Artistic photography -- Continued
- 662 Gardens
- 663 Markets
- Marines. Seashore photography. Water
  - For photography of marine animals see TR729.M37
  - Cf. TR800 Underwater photography
- 670 General works
- 670.5 Ships, boats, etc.
- 672 Mines
- Human figures. Photography of the nude
  - 674 General works
  - 675 Collections
  - 676 Erotic photography
  - 678 Glamour photography
  - 679 Fashion photography
  - 679.5 Humorous photography
- Portraits
  - Cf. TR575+ Portrait photography
  - 680 Collections
  - 681.A-Z Special classes of persons, A-Z
    - 681.A26 Acrobats
    - 681.A28 Actors
    - 681.A32 Afghans
    - 681.A33 Africans
    - 681.A35 Aged. Older people
    - 681.A38 AIDS patients
    - 681.A54 Anglo-Indians
    - 681.A67 Architects
    - 681.A69 Artisans
    - 681.A7 Artists
    - 681.A75 Asians
    - 681.A84 Athletes
    - 681.A85 Authors
    - 681.A94 Automobile drivers
    - 681.B35 Bald persons
    - 681.B37 Baseball players
    - 681.B52 Blacks
    - 681.B54 Blind
    - 681.B57 Bodybuilders
    - 681.B6 Boys
    - Brides see TR819
    - 681.B87 Businesspeople
      - For specific classes of businesspeople see the class, e.g., Merchants TR681.M44
    - 681.C37 Cartoonists
    - 681.C38 Catholics
    - 681.C5 Children
    - 681.C62 Coal miners
    - Comfort women see TR681.P73
    - 681.C66 Cooks
    - 681.C68 Couples
    - Cross-dressers see TR681.T7
    - Dancers see GV1785.A+
    - Daughters and fathers see TR681.F33
    - 681.D43 Dead
    - 681.D63 Dog owners

## Applied photography

## Artistic photography

## Portraits

## Special classes of persons, A-Z -- Continued

681.D74 Dramatists  
 681.E36 Economists  
 681.E94 Exiles  
 681.F28 Families  
 681.F3 Famous persons  
 681.F314 Fans (Persons)  
 681.F316 Farmers  
 681.F32 Father and child  
 681.F33 Fathers and daughters  
 681.F34 Fathers and sons  
 681.F57 Fishers  
 Foreign visitors see TR681.V58  
 681.G47 Germans  
 681.G5 Girls  
 681.G73 Grandmothers  
 681.G9 Gypsies  
 681.H35 Handicapped. People with disabilities  
 681.H63 Homeless persons  
 681.H65 Homosexuals  
 681.I54 Immigrants  
 681.I58 Indigenous peoples  
 681.I6 Infants  
 681.J35 Janitors  
 681.L4 Legislators  
 681.L44 Leisure class  
 681.L47 Letter carriers  
 681.L63 Lobbyists  
 681.M38 Mathematicians  
 681.M39 Maya healers  
 681.M4 Men  
 681.M44 Merchants  
 681.M65 Monsters  
 681.M67 Mothers. Mothers-in-law  
 Mothers-in-law see TR681.M67  
 681.M69 Motorcyclists  
 681.M72 Mountain people  
 (681.M86) Musicians see ML87-ML88  
 681.N54 Night people  
 681.N66 Nomads  
 Older people see TR681.A35  
 People with disabilities see TR681.H35  
 681.P56 Photographers  
 681.P58 Poker players  
 681.P59 Politicians  
 681.P6 Poor  
 681.P67 Pregnant women  
 681.P69 Prisoners  
 681.P73 Prostitutes. Comfort women  
 681.P76 Psychiatric hospital patients  
 681.P84 Punks  
 681.R44 Redheads  
 681.R48 Refugees



- Applied photography
- Artistic photography
  - Portraits
    - Special classes of persons, A-Z -- Continued
    - 681.R56 Religious leaders
    - Romanies see TR681.G9
    - 681.S24 Sailors
    - 681.S36 Scholars
    - 681.S37 Scientists
    - 681.S44 Sexual minorities
      - Class here works on sexual minorities in general
      - For specific types of sexual minorities, see the minority, e.g., Homosexuals, see TR681.H65
    - 681.S45 Singers see ML87+
    - 681.S45 Skinheads
    - 681.S6 Snapshooters
    - 681.S65 Soldiers
    - Sons and fathers see TR681.F34
    - 681.S78 Students
    - 681.S88 Swimmers
    - 681.T47 Terminally ill
    - 681.T68 Transgender people
    - 681.T7 Transvestites. Cross-dressers
    - 681.T85 Twins
    - 681.V56 Vintners
    - 681.V58 Visitors, Foreign
    - 681.W6 Women
    - 681.W62 Women clerks (Retail trade)
    - 681.W65 Working class
    - 681.Y58 Young men
    - 681.Y6 Youth
  - 682 Photographic patterns. Textures
    - 683 Close-up photography
      - 683.5 General works
      - 684 Table-top photography
      - 684 Macrophotography
      - 685 Composite photography. Photomontage
      - 686 Photography of the grotesque
      - 687 Wide-angle photography
      - 688 Photograms
      - 689 Vernacular photography
        - Including photographs taken with cameras worn by animals, etc., for artistic or scientific purposes
    - 689.5 Appropriation (Art)
  - Commercial photography
    - Cf. TR550+ Studio and laboratory
    - 690 General works
    - 690.2 Freelance photography. Amateur photography for profit
      - Cf. TR820 Photojournalism
    - 690.4 Advertising photography
    - 690.6 Stock photography
  - Scientific and technical applications
    - 692 General works
    - 692.5 General special

Applied photography  
 Scientific and technical applications -- Continued

Photogrammetry

Cf. TA592+ Photography in surveying

Cf. TR810 Aerial applications

693

General works

695

Tables, formulas, etc.

696

Instruments, equipment, etc.

702

Photography in engineering

706

Industrial photography

708

Medical photography

710

Scientific expeditions

713

Space photography

714

Photography of airplanes

715

Photography of railroads

Including model railroads

716

Photography of automobiles

Photography of machinery

717

General works

717.3.A-Z

Special subjects, A-Z

Airplanes see TR714

Automobiles see TR716

717.3.S49

Sex machines

Astronomical photography see QB121+

Photomicrography see QH251

Nature photography

Cf. QH46 Pictorial works in natural history

721

General works

Plants, flowers, etc.

724

General works

726.A-Z

Special subjects, A-Z

726.B25

Bamboo

726.B3

Bark

726.F85

Fungi

726.L42

Leaves

726.L66

Lotus

726.O73

Orchids

726.R66

Roses

726.T7

Trees

Animals

727

General works

729.A-Z

Special subjects, A-Z

729.B5

Birds

729.C3

Cats

729.C69

Cows

729.D6

Dogs

729.E45

Elephants

729.F5

Fish

729.H6

Horses

729.I6

Insects

Including individual insects

729.L5

Livestock

729.M37

Marine animals

729.P48

Pets

729.P74

Primates

729.R47

Reptiles

- Applied photography
  - Scientific and technical applications
    - Nature photography
      - Animals
        - Special subjects, A-Z -- Continued
        - 729.S54 Shells
        - 729.W54 Wildlife
      - 732 Rocks
      - 732.5 Minerals
    - Meteorological photography
      - 732.8 General works
      - 733 Clouds
    - Agricultural photography
      - 739 General works
      - 739.5 Farms
      - 739.6 Grain elevators
    - 750 Radiography
      - Cf. QD945 X-ray crystallography
      - Cf. RC78+ Medical radiography
      - Cf. TA417.25 Radiographic examination
      - Cf. TR896.8 Cinderradiography
    - 755 Infrared photography
    - 757 Polarized-light photography
    - 760 Kirlian photography. High voltage photography
    - 770 Telephotography
    - 775 Archaeological photography
    - 780 Stereophotography
      - Cf. TR858 Stereoscopic motion pictures
    - (785) Military photography
      - see UG476
  - Geographical applications
    - 786 General works
    - 787 Mountain photography
    - 788 Subterranean photography. Cave photography
      - Cf. TR672 Photography of mines
    - 790 Travel photography
    - 792 Cold weather photography
    - 795 Tropical photography
    - 800 Underwater photography
      - Cf. GC10.4.P5 Photography in oceanography
      - Cf. TR670+ Marines. Seashore photography. Water
    - 810 Aerial photography. Photographic interpretation
      - Cf. G70.4 Remote sensing in geography
  - Photography in library science see Z681+
  - 816 Audiovisual photography. Photography in education
  - 817 Stage photography. Theater photography
  - 817.5 Dance photography
    - Cf. GV1596 Pictorial works
    - Cf. GV1785.A+ Portraits of dancers
  - 818 School photography
  - 819 Wedding photography
    - Cf. HF5439.W4 Salesmanship
  - 820 Photojournalism
  - 820.5 Documentary photography
    - Cf. D16.155 Photography in historiography
  - 820.6 War photography

- Applied photography -- Continued
- 821 Sports photography
- 822 Photography in criminology and law  
 Cf. KF8968 Photographic evidence (U.S.)
- Photographic reproduction. Photocopying processes  
 Cf. Z265+ Printing
- 824 General works
- 824.4 Dictionaries. Encyclopedias
- 824.6 Directories
- Industrial reproduction see TR900+
- Map reproduction see GA150.7
- Photomechanical processes see TR925+
- Photography of art objects see TR657+
- 825 Photography of manuscripts, historic documents, etc.
- 835 Microfilming. Microphotography  
 Including standards  
 Class here works on the operation and use of equipment to make microforms or other images  
 too small to be seen by the naked eye  
 For works on the design and use of books, documents, computer-output data, etc., in a  
 microform format see Z265.5.M53  
 For micropublishing see Z286.M5
- 840 Chronophotography  
 Cf. TR857 Time lapse cinematography
- Cinematography. Motion pictures. Video recording  
 Cf. NC1765+ Cartoons  
 Cf. PN1993+ Drama  
 Cf. TR592 Instantaneous photography  
 Cf. UF840 Photochronograph in ballistics
- 845 Periodicals. Societies. Collections
- 846 Congresses
- 847 Dictionaries and encyclopedias
- 847.5 Directories
- 848 History  
 Biography  
 Including inventors, projectionists, etc.  
 For producers, directors, etc. see PN1998.3.A+  
 For actors and actresses see PN2287.A+
- 849.A1 Collective
- 849.A2-Z Individual, A-Z
- 850 Treatises
- 851 Elementary and juvenile works
- 851.8 Tables, calculations, etc.
- 852 Study and teaching
- Special photographic processes
- 853 Color cinematography
- 854 3-D films. Stereoscopic motion pictures  
 Including true 3-D and simulated 3-D
- 855 Wide-screen processes
- 857 Time-lapse photography
- 858 Trick cinematography. Special effects
- 859 Front-screen projection
- 860 Digital cinematography  
 Including the use of digital video for purposes of making a motion picture product  
 For special software see TR897.72.A+
- 862 High definition video recording  
 Motion picture machines

- Cinematography. Motion pictures. Video recording  
 Motion picture machines -- Continued
- 878 General works
- 880 Motion picture cameras. Cinematograph  
 Electronic cameras. Television cameras
- 882 General works
- 882.3 Camcorders  
     Cf. TK6655.V5 Television equipment  
     Cf. TR896+ Home video photography
- 882.5 Television camera operation
- 883.A-Z Special makes of motion picture cameras, A-Z
- 883.A77 Arriflex
- 883.B6 Bolex
- 883.D4 De Jur
- 883.P36 Panaflex
- 883.R43 Red One
- 885 Other special machines  
     Including kinoscope, photochronograph, etc.
- Motion picture film
- 886 General works
- 886.2 Processing of exposed film
- 886.3 Preservation
- 886.5 Splicing
- 886.7 Dubbing
- 886.9 Titling  
     Cf. PN1995.9.C65 Credit titles  
     Cf. PN1995.9.T57 Titles of motion pictures
- 887 Catalogs, etc.
- 889 Classification
- 890 Projection
- 891 Lighting for motion pictures  
     Including lighting for video recording  
     For lighting for television broadcasting see PN1992.8.L5  
     Cf. TR590+ Lighting
- Applied cinematography
- 892 General works
- 892.4 Artistic cinematography
- 892.7 Educational cinematography  
     Cf. LB1044 Audiovisual education
- Scientific cinematography
- 893 General works  
     Microcinematography see QH46
- (893.2) Medical cinematography
- Nature cinematography
- 893.4 General works
- 893.5 Wildlife cinematography
- 893.8 Underwater cinematography
- 894 Industrial cinematography  
 Commercial cinematography
- 894.3 General works
- 894.4 Freelance cinematography
- 894.6 Advertising cinematography
- 895 Newsreel cinematography  
     Cf. PN4784.M6 Motion-picture journalism
- 895.4 Documentary cinematography  
     Cf. PN1995.9.D6 Drama

- Cinematography. Motion pictures. Video recording
  - Applied cinematography -- Continued
  - 895.6 Sports cinematography
    - Family cinematography. Amateur cinematography. Home video photography
  - 896 General works
  - 896.5 Vacation and travel cinematography
  - 896.8 Cineradiography
  - 897 Sound motion pictures
    - Animated motion pictures
      - Cf. NC1765+ Motion picture cartoons
    - 897.5 General works
    - 897.6 Stop-motion animation
      - Computer animation
        - 897.7 General works
        - 897.72.A-Z Special software, A-Z
          - 897.72.A14 3ds max
          - 897.72.A335 Adobe After effects
          - 897.72.A338 Adobe Animate CC
          - 897.72.A34 Adobe Edge animate
          - 897.72.B53 Blackmagic Fusion
          - 897.72.B55 Blender
          - 897.72.C36 Camtasia Studio
          - 897.72.F53 Flash
          - 897.72.M39 Maya
          - 897.72.S38 Scratch
          - 897.72.T66 Toon Boom animate
        - 897.74 Machinima
        - 897.75 Morphing
        - 897.77 Rigging
    - 898 Motion pictures for television
      - Cf. PN1992.63 Drama
      - Cf. PN1992.8.F5 Films in television programming
    - Editing of motion pictures
      - 899 General works
      - 899.5 Time code
  - Industrial reproduction
    - 900 General works
    - 905 Enlargements
    - 910 Reductions
      - Direct reproductions on same scale
      - 915 General works
        - Processes for reproducing working drawings, plans, etc.
      - 920 General works
      - 921 Blue processes. Blueprints
      - 923 Black processes
    - Photomechanical processes
      - 925 General works
      - 927 Special applications. Book illustration, etc.
      - Collotype processes
        - 930 General works
        - 933 Albertype
        - 935 Autotype
        - 937 Heliotype
      - Photolithography
        - 940 General works
        - 950 Aluminium process

- Photomechanical processes -- Continued
- 955 Photozincography
  - 960 Photoxylography
  - 970 Photoengraving. Relief processes
    - Cf. TS171.95 Three-dimensional printing
  - 975 Halftone process
  - 976 Mezzograph
  - 977 Color processes
    - Cf. TR510+ Color photography
  - 980 Photogravure. Heliogravure. Intaglio process
  - Gelatine relief processes
    - 990 Photogalvanography
    - 995 Woodburytype. Photoglyptie
    - 997 Stannotype
  - (1010) Phototypesetting
    - see Z253.2
  - Electrophotography
  - 1035 General works
  - Electrostatic printing
  - 1042 General works
  - 1045 Xerography
  - 1050 Ferromagnetography

## Manufactures

- Cf. HD9000+ Economics
- Cf. HF5686.M3 Accounting
- Cf. TP1+ Chemical technology
- Cf. TT1+ Handicrafts
- 1 Periodicals, societies, etc.
- 5 Congresses
- Museums and local exhibitions see T180+
- Exhibitions, national and international see T391+
- 7 Collected works (nonserial)
- 9 Encyclopedias and dictionaries
- Directories see T11.95+
- 15 History
- 21-127 Country divisions (Table T1a)
  - Add country number in table to TS0
  - Cf. T21+ Technology (General)
- Biography
  - 139 Collective
  - 140.A-Z Individual, A-Z
- General works
  - 144 Early to 1800
  - 145 1800-
- Juvenile works. Popular works
- Pictorial works
- Workshop manuals, etc. see TT153+
- Machinists' manuals see TJ1165
- Tables, receipts, etc. see T49
- 148 Addresses, essays, lectures
- 149 General special
- Production management. Operations management
  - Including factory management
- 155.A1 Periodicals, societies, etc.
- 155.A2-Z General works
  - Study and teaching see T56.4+
  - Manufacturing personnel
    - Cf. HF5549+ Personnel management
    - Cf. T55+ Plant safety
    - Cf. TA158+ Industrial technicians
  - 155.4 Plant supervisors
  - 155.5 Foremen
- Data processing. CAD/CAM systems
  - 155.6 General works
  - 155.63 Computer integrated manufacturing systems
  - 155.65 Flexible manufacturing systems
  - 155.67 Parallel kinematic machines
  - 155.7 Environmental aspects
  - Control of production systems
    - 155.8 General works
    - Quality control
      - Cf. TJ245.5 Quality control of machinery
- 156.A1 Periodicals, societies, etc.
- 156.A2-Z General works
  - Standards
    - 156.16 General works
    - 156.17.A-Z Special, A-Z
    - 156.17.I86 ISO 9000 Series standards



- Production management. Operations management
- Control of production systems
  - Quality control
    - Standards
      - Special, A-Z -- Continued
      - 156.17.S59 Six Sigma
    - Inspection
      - 156.2 General works
      - 156.25 Grading
      - 156.4 Acceptance sampling
      - 156.6 Quality assurance
      - 156.8 Process control
        - Cf. TP155.75 Chemical process control
  - Production control
    - Cf. HF5415.2 Market research
    - Cf. TS176+ Production planning
- 157.A1 Periodicals, societies, etc.
- 157.A2-Z General works
- 157.4 Just-in-time systems
  - Scheduling
    - Cf. HD69.T54 Industrial management
- 157.5 General works
- 157.7 Gantt charts
- 158 Critical path analysis
- 158.2 PERT
- 158.4 Line of balance technique
- 158.6 Automatic data collection systems
- Inventory control
  - Cf. HD39.5 Industrial procurement
  - Cf. HD40 Inventory policy
  - Cf. HD40.7 Surplus property
  - Cf. HF5484+ Warehousing and storage
- 160 General works
- 161 Materials management. Industrial ecology
- 162 Economic lot size. Economic order quantity
- 163 Stockkeeping
  - Cf. TS189.6 Storerooms. Warehouses
- Cost control
  - Cf. HD47.3 Economics
  - Cf. TA177.4+ Engineering economy
- 165 General works
- 166 Estimating
- 167 Manufacturing costs
- (167.5) Break-even point
  - see HD47.25
- 168 Value analysis. Value engineering
- 169 Waste control
- Product engineering
  - Cf. T59+ Standardization
  - Cf. TS195+ Packaging
- 170 General works
- Industrial research see T175+
- 170.5 Environmental aspects
- Product design. Industrial design
- 171.A1 Periodicals, societies, congresses, etc.
  - Museums, exhibitions of local societies see T179+

- Production management. Operations management
- Product engineering
  - Product design. Industrial design -- Continued
  - Exhibitions, national and international see T391+
  - Special countries and designers see TS21+
- 171.A5-Z General works
- 171.4 General special
- 171.44 Study and teaching. Schools
- 171.55 Mass customization
  - Including configuration management of products
- 171.57 Makerspaces
- 171.6 Pictorial works
- 171.8 Prototyping
- 171.9 Statistical methods
- 171.95 Three-dimensional printing
  - Cf. TS183.25 Additive manufacturing
- 172 Tolerances
  - Cf. T50 Technical measurement
- 173 Reliability of industrial products
  - Cf. TA169+ Systems reliability
- 174 Maintainability
- 175 Product safety. Safety of consumer products
  - Cf. T55+ Industrial safety. Industrial accident prevention
  - Cf. TA169.7 System safety
- 175.5 Product testing
- Manufacturing engineering. Process engineering
  - Including manufacturing planning, production planning
  - Cf. HD58 Plant location
- 176 General works
- 177 Plant design. Factory planning
- 177.3 Plant size. Factory size
- Plant layout
  - 178 General works
  - 178.2 Batch production
  - Production lines. Assembly line processes
    - 178.4 General works
    - 178.5 Line balancing
    - 178.7 Operation sequence analysis
- Materials handling
  - 180 General works
  - 180.3 Machinery
  - 180.5 Loading and unloading
  - In-plant transportation
    - 180.6 General works
  - 180.8.A-Z Special materials, A-Z
  - 180.8.B8 Bulk solids
- Planning for machinery. Equipment analysis
  - Cf. TS191.3 Installation of machinery
- 181 General works
- 181.3 Selection
- 181.4 Tool life
- 181.6 Replacement
- Manufacturing processes
  - Cf. TJ1180+ Tool engineering
- 183 General works
- 183.25 Additive manufacturing

- Production management. Operations management
- Manufacturing engineering. Process engineering
- Manufacturing processes -- Continued
- Process planning
- 183.3 General works
- 183.6 Make-or-buy decisions
- 183.8 Remanufacturing
- Plant engineering
- Cf. T55+ Plant safety
- Cf. T59.77 Working environment
- Cf. TD895+ Factory sanitation
- Cf. TD896+ Factory waste disposal
- Cf. TH9445.M4+ Fire prevention in factories
- Cf. TH9745.F3 Plant protection
- 184 General works
- 186 Factory buildings. Industrial buildings
- Cf. NA6396+ Architecture
- Cf. TH4511+ Factory construction
- 187 Plant utilities
- For specific utilities, see the utility, e.g. TH7392.M6 Heating of mills and factories
- 188 Employee facilities and buildings
- Plant service facilities
- 189 General works
- 189.3 Toolrooms and cribs
- 189.6 Storerooms. Storage facilities. Warehouses
- Plant grounds
- 190 General works
- 190.5 Industrial landscape architecture
- Machinery and equipment
- 191 General works
- 191.3 Installation
- 191.6 Catalogs
- 191.8 Industrial robots
- Cf. TJ210.2+ Robots (General)
- 192 Plant maintenance
- 193 Plant housekeeping
- 194 Plant performance monitoring
- Packaging
- For packaging of special products, see the product, e.g. TP374 Packaging of food
- Cf. HF5770.A1+ Shipping of merchandise
- Cf. TA1215 Containerization of freight
- 195.A1 Periodicals, societies, congresses, etc.
- 195.A2 Dictionaries and encyclopedias
- 195.A3 Directories
- 195.A4A-.A4Z Special companies. By name, A-Z
- 195.A5-Z General works
- 195.2 General special
- 195.4 Design
- 195.6 Standards and specifications
- 195.8 Testing
- Management
- 196 General works
- 196.2 Costs
- 196.4 Machinery
- Labeling
- 196.6 General works

- Packaging
  - Labeling -- Continued
    - 196.7 Printing
    - 197 Handling
    - 197.5 Containers (General)
    - 198.A-Z Special containers and packaging methods, A-Z
    - 198.A3 Aerosols
    - 198.B3 Bags
    - 198.B6 Boxes
      - Cf. TS900 Box making
    - 198.C3 Cans
    - 198.C33 Capsules. Microencapsulation
    - 198.C46 Child-resistant packaging
    - 198.F55 Flexible packaging
    - 198.I58 Insect-resistant packaging
    - Microencapsulation see TS198.C33
    - 198.P7 Pressure packaging
    - 198.W7 Wrapping
  - Materials
    - 198.2 General works
    - 198.3.A-Z Special materials, A-Z
      - Prefer TS198
      - 198.3.A3 Adhesives. Tapes
      - 198.3.C6 Coatings
      - 198.3.F5 Films. Foils
      - 198.3.G5 Glass
      - 198.3.M4 Metal (non-foil)
      - 198.3.P3 Paper. Paperboard
      - 198.3.P5 Plastics (non-foil)
      - Tapes see TS198.3.A3
      - 198.3.T5 Textile fabrics
      - 198.3.W6 Wood
  - Packaging for protection from mechanical damage
    - Including packing for shipment
    - 198.5 General works
    - 198.6.A-Z Special protective materials and shipping containers, A-Z
      - Prefer TS198
      - 198.6.B3 Barrels
      - 198.6.C6 Conex containers
      - 198.6.C7 Crates
      - 198.6.C8 Cushioning
      - 198.6.D7 Drums
      - 198.6.E9 Excelsior
      - 198.6.P3 Pallets
  - Packaging for protection from exposure to harmful environments
    - 198.7 General works
    - 198.8.A-Z Special environments, A-Z
      - 198.8.C6 Corrosion
      - 198.8.F8 Fungi
      - 198.8.M6 Moisture
  - 199 General catalogs
  - Metal manufactures. Metalworking
    - Including metal forming and working
  - 200 Periodicals, societies, etc.
  - 203 Directories
  - 204 Dictionaries and encyclopedias

## Metal manufactures. Metalworking -- Continued

- 205 General works  
Cold working
- 207 General works  
207.3.A-Z Special topics, A-Z  
207.3.C65 Cold roll forming  
207.3.P44 Peening  
Including shot peening, glass shot peening, hammer peening, laser peening, water jet peening, etc.
- 209 Heating of metals  
Cf. TS325 Heating of steel
- 209.5 Hot working
- 210 Handbooks, tables, etc.
- 213 General special
- 214 Scrap metals
- 215 Metalworking machinery  
Cf. TJ1180+ Machine and hand tools  
Machining see TJ1180+  
Forging. Drop-forging  
Cf. TT218+ Blacksmithing
- 225 General works  
History
- 225.2.A1 General works  
225.2.A5-Z By region or country, A-Z
- 226 Joining of metals  
General works  
Bonding (Metal finishing) see TS718  
Brazing (Handicrafts) see TT267  
Fasteners see TJ1320+  
Riveting (Iron and steel work) see TA891  
Riveting (Machine shop practice) see TJ1325  
Sealing (Machinery) see TJ246  
Soldering (Tinsmithing) see TS610  
Soldering (Handicrafts) see TT267  
Welding  
Cf. TA492.W4 Welded joints  
Cf. TT211 Welding in mechanical arts
- 227.A1 Periodicals, societies, etc.
- 227.A3-Z General works
- 227.2 General special
- 227.3 Hard-facing
- 227.4 Directories
- 227.5 Dictionaries and encyclopedias
- 227.55 Examinations, questions, etc.
- 227.6 Research
- 227.7 Vocational guidance
- 227.8 Safety measures  
Gas welding. Oxyacetylene welding
- 228.A1 Periodicals, societies, etc.
- 228.A2-Z General works
- 228.2 Oxygen cutting
- 228.3 Dissimilar welding
- (228.4-.7) Electric welding, arc welding, resistance welding  
see TK4660
- (228.8) Electric cutting  
see TK4660.5

- Metal manufactures. Metalworking
- Joining of metals
  - Welding -- Continued
  - 228.9 Pressure welding
  - 228.92 Ultrasonic welding
  - 228.95 Laser welding
  - 228.96 Explosive welding
- Casting. Foundry work
  - Including general foundry work, and iron and steel founding
  - For the founding of other special metals see TS551+
  - For the founding of nonferrous metals see TS375
  - 228.99 Periodicals, societies, etc.
  - 229 Directories of foundries
  - 229.3 Dictionaries and encyclopedias
  - History
    - 229.5.A1 General works
    - 229.5.A5-Z By region or country, A-Z
  - 230 General works
  - 230.5 Addresses, essays, lectures
  - 231 Cupola furnaces
    - Cf. TN715 Blast furnaces
  - 233 General special
    - Including automation
  - 234 Specifications
  - 235 Handbooks, tables, etc.
  - 236 Castings
  - 237 Foundry equipment and supplies. Catalogs
  - 238 Foundry management. Estimating, etc.
    - Including safety measures
  - 239 Diecasting
  - 240 Patternmaking
    - For patternmaking for sheet metals see TS250
    - For patternmaking for tin see TS600+
    - For patternmaking for copper see TS620+
  - Molding. Coremaking
    - 243 General works
    - 243.5 Molding materials. Molding sand
  - 245 Powder metallurgy processes and manufactures
    - Cf. TN695+ Metallurgy
  - 247 Rapid solidification processing
  - 248 Semisolid processing
  - 250 Sheet metalwork
    - For tinsmithing see TS600+
    - For coppersmithing see TS620+
  - 253 Metal stamping
    - Including punch and die work, press-tool work, diemaking, etc.
    - Cf. TJ1255+ Punching machinery
  - 255 Extrusion of metals
  - 256 High energy forming
  - 257 Explosive forming
  - 260 Leaf metals
  - Wiremaking
    - Cf. TS1787 Wire rope
  - 270.A1 Periodicals, societies, etc.
  - 270.A2-Z General works

- Metal manufactures. Metalworking
- Wiremaking -- Continued
  - 271 Barbed wire
    - Cf. S790+ Fences
  - 273 Wire screens
    - Cf. TH2276 Screens
  - 275 Sieves
  - 277 Valves (General)
    - For special applications, see the field of application, e.g. TD491 Water distribution systems; TJ352+ Steam boiler safety valves; TL625.V3 Balloon valves
  - Pipes and tubes
    - 280 General works
    - 282 Catalogs
    - 283 Pressure vessels
      - Cf. TA660.T34 Tanks. Pressure vessels (Structural engineering)
  - 285 General catalogs of metal manufactures
  - Iron and steel
    - Cf. HD9510+ Economics
    - 300 Periodicals, societies, etc.
    - Exhibitions
      - 300.5.A1 General works
      - 300.5.A2-Z By region or country, A-Z
        - Subarrange each country by Table T4b
    - 301 Directories
    - 302 Dictionaries and encyclopedias
    - History see TN703
    - Special countries
      - Cf. TN704.A+ Metallurgy
      - United States
        - 303 General works
        - 303.5 Biography
        - 304.A-Z Other countries, A-Z
      - 305 General works
      - 307 General special
        - Including patents
      - 309 Catalogs
        - Specifications see TA466
      - 320 Steelworking. Tool steel
      - 325 Heating of steel
      - 330 Steel plants
        - Including technical descriptions, histories, etc.
        - 330.A1 Collective
        - 330.A2-Z Individual, A-Z
      - 340 Rolling of metals. Rolling mills and machinery
      - 350 Structural iron and steel
        - Cf. TA685 Pocketbooks, tables, etc.
      - 360 Sheet iron and steel
        - Steel pens see TS1263
    - Nonferrous metals (General)
      - 370.A1 Periodicals, societies, etc.
      - 370.A2-Z General works
      - 371 General special
      - 372 Catalogs
      - 375 Founding. Casting
        - Special plants
        - 377.A1 Collective

- Metal manufactures. Metalworking
  - Nonferrous metals (General)
    - Special plants -- Continued
      - Individual, A-Z
- 377.A2-Z
- Cutlery
  - General works
  - Biography
    - Collective
    - Individual, A-Z
- 380
- 380.3
- 380.4.A-Z
- 381
- Scissors and shears (Hand)
- Hardware
  - Cf. HD9745 Economics
  - Cf. TH5618 Carpenters' tools
  - Cf. TH6299 Plumbers' tools
  - Periodicals see TS200
- 400
- 403
- 405
- 408
- General works
- Directories
- Catalogs
- Furniture
  - Including steel, iron, other metal
  - Cf. TS879.2+ Lumber and woodwork
- 410
- 420
- Scales (Weighing instruments)
- Safes
  - Cf. TH9735 Security in buildings
- 425
- Stoves and ranges
  - Cf. TX657.S3+ Home economics
- Miscellaneous articles of iron and steel
  - Including chains, nails, etc.
- 440
- 445
- General works
- Catalogs
- Instrument manufacture
  - Cf. Q184+ Scientific instruments and apparatus
  - Cf. TA165 Engineering instruments
- 500
- General works
- Optical instruments. Optomechanics
  - Periodicals, societies, congresses, etc.
  - By region or country, A-Z
    - Subarrange each country by Table T4a
- 510
- 511.A-Z
- 512.A-Z
- 513
- 514
- 515
- 516
- 517
- General works
- Special companies, A-Z
- General special
- Standards and specifications
- Catalogs
- Preparation of optical surfaces
  - Including grinding and polishing
- 517.2
- Optical coatings
- Lenses
  - General works
  - Special types of lenses, A-Z
    - Aspheric lenses
    - Catadioptric systems
    - Mirror lenses see TS517.5.C38
    - Plastic lenses
- 517.3
- 517.5.A-Z
- 517.5.A86
- 517.5.C38
- 517.5.P5
- 518
- Liquid crystal devices
- Locksmithing
  - Cf. TH9737 Building protection equipment



## Metal manufactures. Metalworking

## Locksmithing -- Continued

- 519 Periodicals, societies, etc.
- 519.5 History
- 520 General works
- 521 General special
- 525 Lock picking
- 529 Catalogs of locks
- 530 Catalogs of keys
- 531 Handcuffs and other metal restraints
- 531.5 Padlocks

## Firearms. Guns

- Cf. NK6900+ Decorative arts
- 532 Periodicals, societies, etc.
- 532.15 Dictionaries and encyclopedias
- Museums. Exhibitions
- 532.2.A1 General works
- 532.2.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b
- 532.4 Collectors and collecting
- History
- 533 General works
- Special countries
- United States
- 533.2 General works
- 533.3.A-W By state, A-W
- 533.4.A-Z Other regions or countries, A-Z
- Biography
- 533.6 Collective
- 533.62.A-Z Individual, A-Z
- 534 General works
- 534.5 General special
- 534.7 Catalogs
- Gunsmithing
- Cf. HD9743 Economics
- Cf. SK274+ Hunting
- Cf. UD380+ Military rifles, etc.
- 535 General works
- 535.2.A-Z Special features and equipment, A-Z
- 535.2.G8 Gunstocks
- 535.2.H64 Holsters
- 535.2.L6 Locks
- 535.2.S46 Sights
  - For telescopic sights see TS535.2.T4
- 535.2.S5 Silencers
- 535.2.T4 Telescopic sights
- 535.4 Maintenance and repair
- 535.8 Muzzle-loading firearms
  - Cf. TS536.6.M8 Rifles
- Types of guns
- 536 Repeating firearms
- Rifles
- 536.4 General works
- 536.6.A-Z Special types, A-Z
- 536.6.B6 Bolt action

- Metal manufactures. Metalworking
  - Firearms. Guns
    - Types of guns
      - Rifles
        - Special types, A-Z -- Continued
          - 536.6.B76 Browning rifles
            - Cf. UD395.B8 Browning automatic rifle
          - 536.6.F34 Falling block
          - 536.6.G37 Garand rifle
          - 536.6.K4 Kentucky rifle
          - 536.6.L48 Leveraction
          - 536.6.M8 Muzzle-loading
          - 536.6.R44 Remington rifles
          - 536.6.R84 Ruger rifle
          - 536.6.S3 Schuetzen rifles
          - 536.6.S5 Single shot
          - 536.6.S64 Spencer rifle
          - 536.6.W55 Winchester rifle
        - 536.8 Shotguns
        - 536.9 Submachine guns
        - 537 Handguns
          - Including pistols and revolvers
        - 537.5 Air guns
      - Ammunition
        - Cf. UF700 Military science
        - Cf. UF820+ Ballistics
      - 538 General works
      - 538.3 Handloading
      - 538.4 Pinfire
      - 538.5 Tear gas munitions
    - Watches and clocks
      - Cf. HD9999.C58+ Economics
      - Cf. NK7480+ Decorative art
    - 540 Periodicals, societies, etc.
    - 540.7 Dictionaries and encyclopedias
    - Museums. Exhibitions
      - 541.A1 General works
      - 541.A2-Z By region or country, A-Z
        - Subarrange each country by Table T4b
    - History
      - 542 General works
      - 542.5 Juvenile works
      - 543.A-Z By region or country, A-Z
      - 543.5.A-Z Special clocks. By place, A-Z
      - 544 Standard clock systems. Electric clocks
      - 544.5 Specifications
      - 544.8.A-Z Biography, A-Z
      - 545 General works
      - 545.8 Study and teaching. Schools
      - 545.9 Vocational guidance
      - 546 Watchmakers' lathes and other machinery
      - 547 Repairing and adjusting
      - 548 General special
        - Including testing, reading the clock
      - 549 Catalogs
      - Sundials see QB215

## Metal manufactures. Metalworking -- Continued

- Light metals
- 551 Periodicals, societies, etc.
- 552 General works
- Aluminum
- Cf. TN775 Metallurgy
- 554 Periodicals, societies, etc.
- 555 General works
- 556 Aluminum plants
- 557 Catalogs
- 560 Magnesium
- 562 Titanium
- Brass and bronze
- 564 Periodicals, societies, etc.
- 565 General works
- 570 Bronze
- 573 Catalogs
- Bells
- For history and antiquities see CC200+
- General works
- 583 Early to 1800
- 585 1800-
- 588 General catalogs, etc.
- For lists of the products of individual foundries and makers see CC206.A+
- 589 Doorbells
- Cf. TK7108+ Electric bells
- Tinplate
- Cf. HD9539.T5+ Economics
- 590 General works
- 597 Tables, calculations, etc.
- Cf. HF5716.T4 Economics
- 599 Catalogs
- Tinsmithing
- Cf. TT266+ Handicraft
- 600 General works
- 610 Soldering
- 619 Tinware and tinsmiths' supplies
- Coppersmithing. Copper founding
- 620 General works
- 625 Catalogs
- 640 Zinc
- 650 Alloys
- Cf. TA483+ General properties of alloys
- Cf. TN689+ Metallography
- Metal finishing and surface treatment (General)
- Cf. TT382+ Handicrafts
- 653.A1 Periodicals, societies, etc.
- 653.A2-Z General works
- 653.5 General special
- Including safety measures
- 654 Cleaning and pickling
- 654.5 Electrolytic polishing
- 655 Metallizing. Metal spraying
- 657 Calorizing
- 660 Galvanizing and tinning
- 662 Electroless plating

- Metal manufactures. Metalworking  
 Metal finishing and surface treatment (General) -- Continued
- Electroplating. Electrometallurgy
- 670.A1 Periodicals, societies, etc.
  - 670.A2-Z General works
  - 671 Pulse plating
  - 672 Plating baths
  - 675 Electroplated ware. Catalogs
  - 678 Gold plating
  - 680 Silver plating
  - 690 Nickel plating
  - 692.A-Z Other metals, A-Z
    - 692.A5 Aluminum
    - 692.C18 Cadmium
    - 692.C4 Chromium
    - 692.C57 Cobalt
    - 692.C6 Copper
    - 692.I7 Iron
    - 692.P55 Platinum
    - 692.P56 Platinum group
    - 692.R5 Rhodium
    - 692.T5 Titanium
    - 692.T8 Tungsten
    - 692.Z5 Zinc
  - 693 Alloys
- Anodic oxidation
- 694 General works
  - 694.2 Aluminum
- Vapor-plating. Chemical vapor deposition
- 695 General works
  - 695.15 Plasma-enhanced chemical vapor deposition
  - 695.2 Ion plating
  - 695.25 Ion implantation
  - 695.3 Boriding
  - 695.5 Siliconizing
  - 695.7 Sulfonitriding
  - 695.9 Refractory coating
  - 696 Phosphate coating
  - 698 Painting and lacquering
  - 699 Powder coating
- Enameling
- Cf. TT382.6 Handicrafts
  - 700 General works
  - 705 Catalogs of enameled ware
  - 710 Coloring
  - 715 Gilding. Silvering. Bronzing
    - Cf. TT380 Mechanic trades
  - 718 Bonding
    - Including rubber to metal bonding
  - 719 Printing
- Precious metals. Gold and silver work. Jewelry
- Cf. HD9536 Economics
  - Cf. NK7100+ Decorative art
  - Cf. NK7210 Hallmarks
  - 720 Periodicals, societies, etc.
  - 722 Dictionaries and encyclopedias

## Metal manufactures. Metalworking

## Precious metals. Gold and silver work. Jewelry -- Continued

- 723 History
- 725 General works
- 729 General special
  - Including alloys, tables, calculations, recovery of wastes
- Silversmithing
  - 730 General works
  - 735 Silverware, etc. Catalogs
- Jewelry
  - Cf. HD9747 Jewelry industry
  - Cf. TS759 Jewelers' catalogs
  - Cf. TS760 Jewelers' supplies
  - Cf. TT212 Jewelry craft
- 740 General works
- Precious stones. Gems
  - Biography
    - 747 Collective
    - 748 Individual, A-Z
  - General works
    - 750 Early to 1800
    - 752 1800-
    - 752.5 Gem cutting
    - Special
      - Diamonds
        - 753 General works
        - 753.5 Diamond cutting
        - 755.A-Z Other special, A-Z
          - 755.A5 Amber
          - 755.E5 Emeralds
          - 755.J34 Jade
          - 755.O73 Opals
          - Pearls
            - 755.P3 General works
            - 755.P4 Cultured pearls
            - 755.R82 Rubies
            - 755.T8 Turquoise
      - 756 General special
      - 757 Trade publications
      - 758 Directories
      - 759 Jewelers' catalogs
      - 760 Jewelers' supplies
      - 761 Emblems, badges, etc.
    - 770 Platinum
  - Stonework
    - Cf. NK8700+ Decorative arts
    - 780 General works
    - 788 Monuments, tombstones, tablets, etc.
  - Glass manufacture see TP845+
  - Plastic manufactures see TP1101+
  - Wood technology. Lumber
    - Cf. HD9750+ Economics
    - Cf. SD1+ Forestry
    - Cf. TA419+ Engineering materials
  - 800 Periodicals
  - 801 Societies

- Wood technology. Lumber -- Continued
- 802 Congresses
- 803 Directories
- 804 Dictionaries and encyclopedias  
History  
    United States
- 805       General works
- 806.A-.W       Special states, A-W
- 810.A-Z       Other countries, A-Z
- 815.A-Z       Special corporations, mills, etc., A-Z
- 820 General works
- 821 Juvenile works
- 825 Inspection, grading, etc. Handbooks
- 835 General special  
    Including utilization, handling, standards, etc.
- 836 Catalogs
- 837 Drying of lumber. Lumber kilns. Seasoning  
Lumberyards and sheds see TH4485  
Wood products. Furniture  
    Including industrial woodworking  
    Cf. HD9773 Economics  
    Cf. TT180+ Arts and crafts
- 840 Periodicals, societies, etc.
- 842 Directories  
History and special countries see TS805+
- 843 General works
- 847 Tables, calculations, etc.
- 850 Machinery. Sawmills. Planing mills
- 851 Care of saws, saw sharpening, etc.  
    Cf. TJ1235 Saw sharpening, etc.
- 852 General special
- 853 Catalogs
- 857 Bonding. Wood adhesives
- 858 Formaldehyde release
- 868 Compressed wood
- 869 Laminated wood
- 870 Veneers and veneering. Plywood
- 875 Fiberboard, particle board, etc.  
    Cf. TH1555 Fiberboard
- 878 Millwork. Planing-mill products  
    Cf. TH1151+ Architectural woodwork  
Furniture  
    Cf. NK2200+ Decorative arts  
    Cf. TP1185.F8 Plastic furniture  
    Cf. TS408 Metal furniture  
    Cf. TT194+ Arts and crafts  
Periodicals see TS840
- 880 General works  
Juvenile works see TS821  
Exhibitions
- 882.A1       General works
- 882.A2-Z     By region or country, A-Z  
    Subarrange each country by Table T4b
- 885 Directories see TS842  
General special

- Wood technology. Lumber
- Wood products. Furniture
- Furniture -- Continued
- 886 Finishing
  - Cf. TT199.4 Handicrafts
- 886.5.A-Z Special types of furniture, A-Z
- 886.5.B4 Beds and bedsteads
- 886.5.C45 Chairs
  - Including rocking chairs
- 886.5.C74 Cribs
- 886.5.T3 Tables
- 887 Catalogs
- 889 Fixtures for stores, etc.
- 890 Cooperage. Barrels. Staves
- 900 Box making
  - Cf. TS198.B6 Packaging
- 903 Miscellaneous manufactures of wood
- 905 General catalogs of woodwork
- 908 Cork industry
  - Cf. TP659.A1+ Bottling
- 910 Willowware. Basketmaking
  - Cf. NK3649.5+ Decorative arts
  - Cf. TT879.B3 Handicrafts
- 913 Miscellaneous hand-woven products
  - Including baskets, trays, lampshades, etc.
- 915 Wire-grass industry
  - Including Crex Carpet Company products
  - Cf. TS1747+ Fiber industries
- Chemical processing of wood
  - Including wood from trees and other woody plants
- 920 Periodicals. Societies. Collections
- 921 Congresses
- 922 Dictionaries and encyclopedias
- Special countries
- 924 United States
- 926.A-Z Other countries, A-Z
- 928 General works
- 930 General special
- Wood composition and chemistry
- 932 General works
- 933.A-Z Individual components, A-Z
- 933.C4 Cellulose
- 933.L5 Lignin
- 933.S2 Salt
- 934.A-Z Chemical properties of individual timbers and woods, A-Z
- 936 Processing methods
  - Cf. TP997 Destructive distillation of wood
- 937 Management
- 937.2 Special products
  - Charcoal see TP331
  - Fiberboard, particle board, etc. see TS875
  - Paper see TS1080+
  - Rayon see TS1544.R3
  - Tannins see TS985
  - Turpentine see TP977+
  - Woodpulp see TS1171+

- Leather industries. Tanning
  - Cf. HD9780 Economics
  - Cf. TT290 Handicraft
- 940 Periodicals, societies, etc.
- Exhibitions
  - 943.A1 General works
  - 943.A2-Z By region or country, A-Z
    - Subarrange each country by Table T4b
- 945 Directories
- 947 Dictionaries and encyclopedias
- History
  - 950 General works
  - 951 Origins
  - 952 Medieval
  - 954 Modern
  - Special regions or countries
    - United States
      - 955 General works
      - 956.A-.W States, A-W
      - 957.A-Z Europe, A-Z
      - 959.A-Z Other regions or countries, A-Z
- 965 General works
- 965.5 Juvenile works
- 967 General special
  - Including chemistry, testing, hides and skins
- 968 Study and teaching. Schools
- 970 Patent leather
- 980.A-Z Other special kinds of leather, A-Z
  - 980.B82 Buckskin
  - 980.R8 Russia leather
  - 980.S6 Sole leather
  - 980.U6 Upholstery leather
  - 980.U7 Uppers
  - 980.V6 Vici kid
- 985 Tanning materials. Tannins
- 986 Dyes and dyeing
- Boot and shoemaking
  - For local see TS955+
  - Cf. HD9787 Economics
  - Cf. TT678.5 Handicraft
- 989 Periodicals, societies, etc.
- Directories see TS945
- Dictionaries see TS947
- 990 General works
- 1000 History
  - Cf. GT2130 Footwear (Costume)
- 1005 Machinery
- 1007 Finishing processes
- 1015 Hygienic shoes
  - Cf. RD757.S45 Orthopedic shoes
- 1017 Athletic shoes
- 1020 General special
- Repairing
  - 1023.A1 Periodicals, societies, etc.
  - 1023.A2-Z General works
- 1025 Catalogs



- Leather industries. Tanning -- Continued  
 Harness. Saddles
- 1030 Periodicals, societies, etc.  
 1032 General works  
 1033 Catalogs  
 1035 Saddlery hardware. Harness hardware  
     Including catalogs
- 1040 Other kinds of leatherwork  
     For luggage see TS2301.L8  
     Cf. NK6200+ Leather (Decorative arts)
- 1043 Leatherwork machinery. Catalogs  
 Imitation leathers
- 1045 General works  
 1047.A-Z Special, A-Z
- 1050 Articles of horn, ivory, bone, etc.  
     Cf. NK5800+ Ivory (Decorative art)  
     Cf. NK6020+ Horn and bone (Decorative art)  
     Cf. TT288 Bone and horn craft
- Furs  
     Cf. HD9944 Economics  
     Cf. TT525 Fur garments
- 1060 Periodicals, societies, etc.  
 1061 General works  
 1063 Quality control, grading, etc.  
 1066 Directories  
 1067 Catalogs  
 1070 Artificial fur
- Animal fibers see TS1545+
- Paper manufacture and trade  
     Cf. HD9820+ Economics  
     Cf. Z45 Writing instruments, including paper  
     Cf. Z112 Paleography materials  
     Cf. Z237 Watermarks  
     Cf. Z247 Practical printing
- 1080 Periodicals, societies, congresses, etc.  
 Exhibitions
- 1083.A1 General works  
 1083.A2-Z By region or country, A-Z  
     Subarrange each country by Table T4b
- 1085 Dictionaries and encyclopedias  
 1088 Directories  
 History
- 1090 General works  
     Ancient (Papyrus, etc.) see Z105+  
 1091 Origins (Arab, Chinese, etc.)  
     Medieval
- 1092 General works  
 1093.A-Z Special countries, A-Z  
     Modern
- 1094 General works  
 1095.A-Z Special countries, A-Z  
 1096.A-Z Special companies, A-Z  
     Cf. TS1210+ Catalogs
- 1098.A-Z Biography, A-Z  
 General works
- 1104 Early to 1800

- Paper manufacture and trade
  - General works -- Continued
  - 1105 1800-
  - 1105.5 Juvenile works
  - 1107 Quality control
  - 1109 General special
    - Including testing, waste prevention, use of cornstalks, hemp, etc.
  - 1111 Study and teaching. Schools
  - 1115 Watermarks, trademarks, etc. (Modern)
    - Cf. Z237 Watermarks of early printers
  - Papermills and their management
    - 1116 General works
    - 1116.2 Water supply
    - 1116.6 Paper handling. Transportation
    - Machinery
      - 1117 General works
      - 1117.6 Automation
  - 1118.A-Z Special manufacturing processes and equipment, A-Z
  - 1118.C34 Calenders and calendering
    - Coloring see TS1118.D9
  - 1118.C8 Cutting and cutting machinery
  - 1118.D42 Deacidification
  - 1118.D7 Drying and drying machinery
  - 1118.D9 Dyes and dyeing. Coloring
  - 1118.F4 Felts
  - 1118.F5 Finishing. Coatings
    - Folding see Z261
  - 1118.P74 Pressing
  - 1118.P85 Pulp consistency transmitters
  - 1118.R4 Refining
  - 1118.S5 Sizing
  - 1118.S85 Stock preparation
  - 1120 Chemistry of paper manufacture
  - 1120.5 Paper recycling
  - 1121 Paper characteristics, properties, etc.
  - Paper types. Special papers
    - 1124 General works
    - 1124.5 Handmade
    - 1125 Papyrus
      - Cf. Z45 Calligraphy materials
      - Cf. Z112 History of writing
    - 1129 Korean paper
    - 1130 Japanese paper
    - (1130.2) Marbled papers
      - see Z271.3.M37
    - Paperboard
      - Including cardboard, pasteboard
    - 1135 General works
    - 1138 Corrugated paperboard
    - 1155 Papier mâché
      - Cf. TT871 Papier-mâché craft
  - 1160 Newsprint
  - 1165 Parchment
  - 1166 Straw paper
  - 1167 Reproduction paper
  - 1168 Tissue paper

- Paper manufacture and trade
  - Paper types. Special papers -- Continued
- 1169 Xuan zhi
- Woodpulp industry. Pulping processes
  - Cf. HD9750+ Economics
- 1171 Periodicals, societies, congresses, etc.
- 1172 Annuals. Directories
- 1173 United States
- 1174.A-Z Other countries, A-Z
- 1175 General works
- 1176 General special
  - 1176.4.A-Z Special pulps, A-Z
    - 1176.4.A8 Aspen
    - 1176.4.B3 Bamboo
    - 1176.4.E9 Eucalyptus
    - 1176.4.H3 Hardwoods
    - 1176.4.K44 Kenaf
    - 1176.4.L3 Larch
    - 1176.4.P5 Pine
    - 1176.4.S7 Spruce
    - 1176.4.T7 Tropical woods
  - 1176.6.A-Z Special aspects, A-Z
    - 1176.6.A5 Analysis of pulp
    - 1176.6.B56 Biotechnology
    - 1176.6.B6 Bleaching of pulp
    - 1176.6.E7 Equipment and supplies
    - 1176.6.E79 Ethanol pulping process
    - Kraft processes see TS1176.6.S9
    - Mechanical process
    - 1176.6.S5 Smelt-water explosions
    - 1176.6.S6 Soda process
    - 1176.6.S9 Sulfate process
    - 1176.6.S915 Sulfate waste liquor
    - 1176.6.S92 Sulfite liquor
    - 1176.6.S93 Sulfite process
    - 1176.6.T4 Testing of pulp
    - 1176.6.W36 Washing
    - 1176.6.W6 Wood chips
- 1177 Articles manufactured from woodpulp
  - Cf. TS1155 Papier mâché
- Artificial flowers see TT890+
- Other articles of paper
  - Including bags, paper boxes, etc.
  - For folding and folding machinery see Z261
- 1200.A1 Periodicals, societies, etc.
- 1200.A2-Z General works
  - Catalogs of paper and pulp mill equipment and supplies
    - Including bags, paper boxes, etc.
- 1205.A1 Periodicals, societies, etc.
- 1205.A2-Z General works
  - Catalogs of paper manufacturers
    - Cf. TS1090+ History
- 1210 General works
- 1220 Sample books
- Stationery
  - 1228 Periodicals, societies, etc.

- Paper manufacture and trade
- Stationery -- Continued
- Directories see TS1088
- (1229) Biography
  - see TS1098
- 1230 General works
- 1233 General special
  - Including history and antiquities
- 1238 Trade publications other than catalogs
- 1240 Catalogs
- 1250 Blank books
- 1251 Copybooks
- 1260 Ruling-machinery
- Pens
  - Including catalogs
- 1262 General works
- 1263 Steel pens
- 1265 Gold pens
- 1266 Fountain pens
- 1267 Ball-point pens
- 1268 Pencils. Crayons
  - Including mechanical pencils
- Textile industries
  - Cf. HD9850+ Economics
  - Cf. SB241+ Fiber plant culture
- 1300 Periodicals. Societies. Congresses
- (1301) Yearbooks
  - see TS1300
- Museums. Exhibitions
  - General works
  - By region or country, A-Z
    - Subarrange each country by Table T4b
- 1309 Dictionaries and encyclopedias
- 1312 Directories
- History
  - General works
  - 1316 Ancient
  - 1317 Medieval
  - 1318 Modern
- 1321-1424.5 Special countries (Table T1b)
  - Add country number in table to TS1300
- 1425.A-Z Special corporations, mills, etc., A-Z
- Biography
  - 1439 Collective
  - 1440.A-Z Individual, A-Z
- General works
  - 1444 Early to 1800
  - 1445 1800-
  - 1446 Elementary works
  - 1449 General special
    - Including microscopy, testing, safety measures, yarn
- 1450 Standardization
  - Including thread numbers
- 1450.5 Production standards
- 1451 Handbooks, tables, etc.
- 1463 Vocational guidance

- Textile industries -- Continued
- Study and teaching
- 1465 General works
- 1465.5 Problems, exercises, etc.
- By region or country
  - For individual institutions, see the state or country without further subdivision
  - United States
  - 1471 General works
  - 1472.A-Z By region or state, A-Z
  - 1473.A-Z Other regions or countries, A-Z
  - 1474 Information services
  - 1474.5 Textile chemistry
    - Cf. TP890+ Bleaching, dyeing, printing of textiles (Chemical technology)
  - 1475 Textile design
    - Cf. NK8800+ Decorative arts
    - Cf. TT851+ Textile decoration (Arts and crafts)
  - Spinning
    - Including preliminary processes
    - Cf. TS1577 Cotton spinning
    - Cf. TS1628 Woolen spinning
    - Cf. TS1727 Hand spinning
  - 1480 General works
  - 1483 Machinery
  - 1484 Spinning wheel, distaff, etc.
  - Carding and combing
    - Cf. TS1578 Cotton carding
    - Cf. TS1628 Wool carding
    - Cf. TS1727 Flax spinning
  - 1485 General works
  - 1487 Machinery
  - 1487.5 Twisting and twisting machinery
  - 1487.7 Crimping
  - Sizing
    - 1488 General works
    - Cotton sizing see TS1580
  - Weaving (Industrial)
    - Cf. TT848+ Hand weaving
  - 1490 General works
  - 1493 Machinery. Looms
  - 1500 Jacquard weaving
    - Including jacquard looms
  - 1510 Finishing
  - 1511 Setting of textiles
  - 1512 Coating of fabrics
  - 1512.5 Electrostatic flocking
    - Cf. TS1828+ Nonwoven fabrics
  - 1513 Crease-resisting process
  - 1514 Drying. Drying equipment
  - 1515 Mercerization
  - 1517 Mothproofing
  - 1520 Waterproofing
  - Fireproofing see TP267
  - 1525 Textile machinery (General)
  - Textile mills (Design and construction) see TH4521
  - Textile supplies
  - 1529 General works

- Textile industries
- Textile supplies -- Continued
- 1530 Catalogs
- 1535 Directories
- Textile fibers
- 1540 General works
- Vegetable
- 1541 General works
- 1542 Cotton
- 1543 Linen
- 1544.A-Z Others, A-Z
- 1544.A5 Ambary hemp. Kenaf
- 1544.B3 Bast
- 1544.C4 Cellulose
- 1544.C6 Coconut fiber
- 1544.H4 Hemp
  - Cf. TS1733 Hemp manufactures
- Kenaf see TS1544.A5
- 1544.M3 Marine fiber
- 1544.P55 Piña cloth
- 1544.R2 Ramie
  - Cf. SB259 Plant culture
- 1544.R3 Rayon
  - Cf. TS1688.A1+ Rayon manufactures
- Animal
- 1545 General works
- 1546 Silk
- 1547 Wool
- 1548.A-Z Others, A-Z
- 1548.C3 Camel's hair
- 1548.H6 Horsehair
- 1548.M6 Mohair
- 1548.V5 Vicuna
- Synthetic textile fibers
- 1548.2 Dictionaries and encyclopedias
- 1548.5 General works
- 1548.7.A-Z Special, A-Z
- 1548.7.A25 Acrylic
- 1548.7.P57 Polyamide
- 1548.7.P58 Polyesters
- 1548.7.P6 Polypropylene
- 1548.7.P63 Polyurethanes
- 1548.7.V5 Vinyl
- Inorganic fibers
- 1549.A1 General works
- 1549.A3-Z Special, A-Z
- 1549.A7 Asbestos
- 1549.G5 Glass
- 1549.G6 Gold
- Cotton manufactures
  - Cf. HD9870+ Economics
  - Cf. SB245+ Cotton culture
- 1550 Periodicals, societies, etc.
- (1551) Yearbooks
  - see TS1550
- 1555 Directories

## Textile industries

## Cotton manufactures -- Continued

## Exhibitions

1557.A1  
1557.A2-Z

General works  
By region or country, A-Z  
Subarrange each country by Table T4b

## History

1560 General works  
1561 Ancient  
1562 Medieval  
1564 Modern  
1565.A-Z Special regions and countries, A-Z  
1566.A-Z Special companies. By name, A-Z  
1570 Biography  
1575 General works  
1576 Elementary works  
1577 Spinning  
Including preliminary processes  
1578 Carding. Combing. Lapping  
1579 Weaving  
1580 General special  
Including finishing processes  
1581 Handbooks, tables, calculations, etc.  
1582 Cotton fabrics  
1583 Cotton machinery  
1585 Ginning, baling, etc.  
1587 Cotton waste products

Cf. TP996.C75 Chemical technology

Cotton baling see TS1585

1590 Thread manufacture

## Woolen manufactures

Cf. HD9890+ Economics  
Cf. SF371+ Sheep culture

1600 Periodicals, societies, etc.  
(1601) Yearbooks  
see TS1600

1603 Directories

## Exhibitions

1606.A1 General works  
1606.A2-Z By region or country, A-Z  
Subarrange each country by Table T4b

## History

1610 General works  
1611 Ancient  
1612 Medieval  
1614 Modern  
1615.A-Z Special regions or countries, A-Z  
1620 Biography  
1625 General works  
1626 Elementary works  
Spinning and other preliminary processes  
1627 General works  
1628 Carding. Combing  
1629 Weaving  
1630 General special  
Including finishing processes, wool substitutes, etc.

- Textile industries
  - Woolen manufactures -- Continued
    - 1631 Handbooks, tables, calculations, etc.
    - 1633 Woolen and worsted machinery
    - 1634 Catalogs of woolen goods
    - 1635 Artificial wool
  - Silk manufactures
    - Cf. HD9910+ Economics
    - Cf. SF541+ Sericulture
    - 1640 Periodicals, societies, congresses, etc.
    - (1641) Yearbooks
      - see TS1640
    - 1643 Directories
    - Exhibitions
      - 1646.A1 General works
      - 1646.A2-Z By region or country, A-Z
        - Subarrange each country by Table T4b
    - History
      - 1650 General works
      - 1651 Ancient
      - 1652 Medieval
      - 1654 Modern
      - 1655.A-Z Special regions or countries, A-Z
    - Biography
      - 1660 General works
      - 1665 Spinning and other preliminary processes
      - 1669 General special
      - 1671 Handbooks, tables, etc.
      - 1672 Silk machinery
      - 1673 Catalogs
      - 1675 Velvets
      - 1676 Brocade
      - 1677 Crepe
      - 1680 Plush
      - 1687 Cords, trimmings, passementerie, gimp, braids, etc.
    - Artificial silk. Rayon. Celanese
      - 1688.A1 Periodicals, societies, etc.
      - 1688.A2 Directories
      - 1688.A3-Z General works
  - Flax, hemp and jute industries
    - Cf. TS1540+ Fibers
    - Cf. TS1784+ Cordage
    - Cf. TS1795 Twine
    - 1700 Periodicals, societies, etc.
    - 1705 General works
    - 1707 Tables, calculations, etc.
    - Flax industries. Linen, etc.
      - Cf. HD9930 Economics
    - History
      - 1710 Special regions or countries, A-Z
      - 1715.A-Z General works
      - 1725 Spinning and other preliminaries
      - 1727 Machinery
      - 1728 Tables, calculations, etc.
      - 1730 Catalogs of linen goods
      - 1731 Hemp industries
      - 1733



- Textile industries  
 Flax, hemp and jute industries -- Continued
- 1735 Jute industries, burlap, etc.
- Other fiber industries
- 1747.A-Z Special, A-Z
- 1747.C6 Coir
- 1747.D3 Date palm fiber
- 1747.E8 Esparto
- 1747.H6 Horsehair
- 1747.K3 Kapok
- 1747.O3 Oakum
- 1747.R2 Raffia
- 1747.R3 Ramie
- 1747.R6 Roselle
- 1747.S5 Sisal
- 1747.S7 Straw plaiting
- Wire grass see TS915
- 1750 General special
- Textile fabrics. Dry goods
- Cf. TT490+ Clothing manufacture
- 1760 Periodicals, societies, etc.
- 1763 Directories
- 1765 General works
- 1767 General special
- 1768 Catalogs
- 1770.A-Z Special kinds of fabrics, A-Z
- 1770.I53 Industrial fabrics
- 1770.S54 Sheer fabrics
- Knit goods, hosiery, etc. see TT679+
- Carpets, rugs, etc.
- Cf. NK2775+ Decorative art
- 1772 Periodicals, societies, etc.
- 1773 Directories
- Exhibitions
- 1774.A1 General works
- 1774.A2-Z By region or country, A-Z
- Subarrange each country by Table T4b
- History
- 1774.4 General works
- 1774.6.A-Z Special regions or countries, A-Z
- 1775 General works
- 1775.5 General special
- 1776 Catalogs, etc.
- Rugs
- Cf. NK2775+ Art
- 1777 General works
- 1778 Oriental rugs
- Cf. NK2808+ Art
- 1779.A-Z Other floor coverings, A-Z
- 1779.G7 Grass rugs
- 1779.L5 Linoleum
- 1779.M2 Matting. Straw, etc.
- 1779.O5 Oilcloth
- 1779.5 Carpet measuring, cutting, laying, etc.

	Textile industries -- Continued
1780	Tapestry Cf. NK2975+ Art Cf. TT849 Hand weaving
1781	Miscellaneous textile articles and products Including bagging, shawls, towels, etc. For artificial fur see TS1070 For flags see TS2301.F6
1782	Lace (Machine made) Cf. HD9933 Trade Cf. NK9400+ Decorative art Cf. TT800+ Needlework
1782.5	Braid (Machine made)
1783	Embroidery (Machine made) Cf. NK9200+ Decorative art Cf. TT769+ Needlework
	Miscellaneous fiber products
	Cordage
1784	Periodicals, societies, etc.
1784.5	Directories
1785	General works
1787	Wire rope
1792	Sennit
1795	Twine
(1825)	Felt see TS1830.F44
	Nonwoven fabrics
1828	General works
1830.A-Z	By type of nonwoven fabric, A-Z
1830.F44	Felt. Felting
1830.N44	Needlepunch
1850	Other fiber products
1860	Tent and awning making
1865	Umbrellas and parasols
	Rubber industry
	Cf. HD9161 Economics Cf. SB289+ Agriculture
1870	Periodicals, societies, etc.
1871	Congresses Exhibitions
1872.A1	General works
1872.A2-Z	By region or country, A-Z Subarrange each country by Table T4b
1875	Dictionaries and encyclopedias
1877	Directories History
1880	General works
1885.A-Z	Special countries, A-Z
1890	General works
1891	Vulcanizing
1891.5	Machinery
1892	General special. Examination, testing, etc.
1893	Catalogs and other trade publications
1910	Rubber boots and shoes
1912	Rubber tires

- Rubber industry -- Continued
- 1920 Other articles of rubber  
Including hand stamps, rubber bands, tubes, etc.
- 1925 Synthetic rubber. Elastomers
- 1927.A-Z Special, A-Z
- 1927.C92 Cyclized rubber
- 1927.E86 Ethylene-propylene rubber
- 1927.S55 Silicone rubber
- 1930 Gutta-percha
- 1935 Balata
- Miscellaneous industries
- Animal products  
Cf. SK283.8 Field dressing and skinning of game
- 1950 Periodicals, societies, etc.
- 1953 Dictionaries and encyclopedias
- 1955 General works  
Butchering. Slaughterhouses. Meat curing  
Class here technical works only  
For Judaism see BM720.S6+  
For moral and ethical aspects of eating meat see GT2868.55  
Cf. HD9410+ Animal industry  
Cf. RA578.A6 Slaughterhouses
- Biography
- 1959 Collective
- 1959.5.A-Z Individual, A-Z
- 1960 General works
- 1962 Minor works  
Special countries  
United States  
General works  
States, A-W  
Cities, A-Z  
Other countries, A-Z  
Other cities, A-Z
- 1963 Poultry processing
- 1964.A-W Fish processing see SH334.9+
- 1965.A-Z Furs see TS1060+
- 1966.A-Z Leather see TS940+
- 1967.A-Z Meat-packing industries  
Cf. HD9410+ Economics  
Cf. TS2284+ Pet food industry
- 1970 General works
- 1971.A-Z By region or country, A-Z  
Subarrange each country by Table T4a
- 1973 Packinghouse equipment, etc.
- 1974.A-Z Special topics, A-Z
- 1974.B3 Bacon
- 1974.C67 Corned beef
- 1974.F5 Flavoring, seasoning, etc.
- 1974.S3 Sausages
- 1975 Meat inspection  
Lard, tallow, etc.  
Cf. TP669+ Oils, fats, and waxes
- 1980 General works
- 1981 Rendering apparatus
- 1982 Bone products

## Miscellaneous industries -- Continued

- Carriage and wagonmaking  
 Including sleighs and sleds  
 Cf. HD9709.5 Economics
- 2001 Periodicals, societies, etc.  
 Exhibitions. Museums
- 2003.A1 General works  
 2003.A2-Z By region or country, A-Z  
     Subarrange each country by Table T4b
- 2005 Directories  
 2010 History  
 2020 General works  
 2025 General special  
 Carriage painting  
     General works  
 2030 Scrolls and designs for carriage painters  
 2032 Catalogs of carriagemakers  
 2033 Carriage hardware  
 2035 Automobiles see TL1+
- Cereals and grain. Milling industry  
 Including flour  
 Cf. HD9056 Economics
- 2120 Periodicals, societies, etc.  
 Exhibitions  
     General works  
 2123.A1 By region or country, A-Z  
 2123.A2-Z Subarrange each country by Table T4b
- 2129 Directories  
 History  
     General works  
 2130 By region or country, A-Z  
 2135.A-Z Under each country:  
     .x General works  
     .x2A-.x2Z By state, province, etc., A-Z
- General works  
 2144 Early to 1800  
 2145 1800-  
 2149 General special  
     Including moisture in grain
- 2155 Catalogs  
 Cereal products see TP434+  
 Feeds and feed mills see TS2284+
- 2159.A-Z Milling and processing of individual cereals, A-Z  
 2159.C7 Corn  
 2159.R5 Rice  
 2159.S65 Sorghum  
 Wheat see TS2120+
- 2160 Gloves  
     Cf. HD9947 Economics
- Hats  
     Cf. HD9948 Economics  
     Cf. TT650+ Millinery
- 2180 Periodicals, societies, etc.  
 Exhibitions  
 2181.A1 General works

## Miscellaneous industries

## Hats

Exhibitions -- Continued

2181.A2-Z

By region or country, A-Z

Subarrange each country by Table T4b

2182

Directories

2185

General works

2190

General special

2193

Renovating, cleaning, etc.

## Tobacco industry

Cf. HD9130+ Economics

2220

Periodicals, societies, etc.

2225

Dictionaries and encyclopedias

2228

Directories

## History

2230

General works

2234

Modern

2235.A-Z

Special places, A-Z

2240

General works

2249

General special

Including machinery, curing, testing, facts for smokers, enjoyment of smoking

2251

Tables, calculations, etc.

2255

Nicotine (Preparation, use, etc.)

2260

Cigars and cigarettes

2270

Pipes for smoking

2280

Smoking paraphernalia

Including lighters

2283

Catalogs of cigars, smoking paraphernalia, etc.

## Animal feeds and feed mills. Pet food industry

Cf. SF94.5+ Animal nutrition

Cf. SF414 Pet feeding

2284

Periodicals, societies, etc.

2285

Congresses

2286

General works

2286.5

General special

2287

Patents

2288.A-Z

Special foods. Foods for special animals, A-Z

2288.C36

Cat food

2288.C45

Cereals

2288.D63

Dog food

2288.M4

Meat

2301.A-Z

## Other industries, A-Z

Class here primarily catalogs of wares, especially articles not made of any one material

## Audiovisual equipment

2301.A7

General works

Phonographs see TS2301.P3

Sound recording instruments see TS2301.S6

Baggage see TS2301.L8

2301.B4

Beads

Cf. TT860 Beadwork

2301.B5

Belts

2301.B8

Brushes and brooms

2301.B9

Buttons

2301.C3

Canes

2301.C4

Catgut

## Miscellaneous industries

## Other industries, A-Z -- Continued

2301.C5	Church supplies Cf. NK1657 Trade catalogs, etc.
2301.C75	Combs
	Containers see TS195+
2301.D4	Decalcomania
	Dolls see TS2301.T7
2301.F4	Feathers
2301.F6	Flags, banners, etc.
2301.H7	Hose Cf. TH9380 Firehose
2301.I6	Insignia
2301.I8	Isinglass
2301.L8	Luggage
2301.M3	Marking devices
(2301.M8)	Monuments, tombstones, tables, etc. see TS788
2301.N5	Notions
2301.N55	Novelties
2301.P2	Page turners
2301.P24	Palm products
2301.P3	Phonographs
2301.P5	Pins and needles
2301.S5	Skates
2301.S6	Sound recording instruments Cf. TK7881.4+ Electronic sound systems Cf. TS2301.P3 Phonographs
2301.S7	Sporting goods
2301.T5	Time stamps
2301.T7	Toys, etc. Cf. GV1218.5+ Games and amusements Cf. NK4891.3+ Dolls and dollhouses (Decorative arts) Cf. NK9509+ Toys (Decorative arts) Cf. TT174+ Handicrafts
2301.T9	Transfer pictures, etc.
2301.U5	Undertakers' supplies, etc.
2301.W3	Wax figures
2301.W5	Window shades

- Handicrafts. Arts and crafts  
 Including mechanic trades  
 Cf. NK1+ Decorative arts  
 Cf. NK1135+ Arts and crafts movements  
 Cf. TH5011+ Building trades  
 Cf. TP1+ Industrial products (Chemical technology)  
 Cf. TS1+ Manufactures
- 1 Periodicals, societies, etc.  
 Exhibitions. Museums
- 6.A1 General works  
 6.A2-Z By region or country, A-Z  
 Subarrange each country by Table T4b
- 7 Collected works (nonserial)
- 9 Dictionaries and encyclopedias  
 Communication of handicraft information
- 10 General works
- 11 Computer network resources  
 Including the Internet
- 12 Directories
- 14 Philosophy. Theory. Relation to other topics
- 15-127 History and country divisions (Table T1)  
 Add country number in table to TT0  
 Class here general works on the crafts as practiced in particular regions or countries. Also class here manuals on how to duplicate craft articles of particular regions or countries, including craft articles of particular ethnic groups. For example, class manuals on duplicating crafts of the Indians of North America in TT22  
 For ethnological works on the crafts as practiced by the ethnic groups of particular regions, see GN575+ or the class numbers for particular groups in classes D-F  
 For ethnological works about crafts of North American Indians, see E98.I5
- Biography
- 139 Collective  
 140.A-Z Individual, A-Z
- General works
- 144 Early to 1800  
 145 1800-
- 149 General special
- 150 Study and teaching
- 151 Mending and repairing  
 Cf. NK4233 Ceramics  
 Cf. TH4817+ Home maintenance and repair  
 Cf. TX323 Care of the home
- 152 Workshops: Planning and maintenance  
 Workshop practice  
 Including use of workshop tools
- 153 General works
- 153.5 Power tools
- 153.7 Craft materials and supplies  
 Models and modelmaking  
 Cf. TT178 Miniature crafts
- 154 General works
- 154.5 Radio control systems
- 155 Handbooks, manuals, etc.

- 157 Special crafts treated collectively  
 Including general works on craft projects and items to make  
 Cf. SF413.5 Craft items for pets  
 Cf. TT180+ Special crafts, by material  
 Cf. TT699+ Textile arts and crafts  
 Cf. TT855+ Decorative crafts  
 Juvenile works. Projects for boys  
 Including projects for both girls and boys  
 Cf. TT171 Handicraft for girls
- 159 Periodicals, societies, etc.  
 160 General works  
 Manual training. Industrial arts training. School shops  
 Cf. LB1594+ Industrial arts training in elementary schools  
 Cf. LC1081+ Industrial education (Theory)  
 Cf. LC2780.5 Industrial education of blacks and African Americans  
 Cf. T61+ Technology - Study and teaching
- 161 Periodicals, societies, etc.  
 Exhibitions  
 162.A1 General works  
 162.A2-Z By region or country, A-Z  
 Subarrange each country by Table T4b
- 163 Directories  
 165 Textbooks  
 166.A-Z Special countries, A-Z  
 167.A-Z Special cities, A-Z  
 Including special schools  
 Teaching methods  
 168 General works  
 169 General special  
 School shops  
 170 General works  
 170.4 Safety measures  
 170.7 Equipment and supplies  
 Including catalogs
- 171 Handicrafts for girls  
 Articles for children  
 Cf. TT197.5.C5 Children's furniture  
 Toys  
 Cf. GV1218.5+ Games and amusements  
 Cf. LB1029.T6 Educational toys  
 Cf. NK9509+ Decorative arts  
 Cf. TS2301.T7 Toy manufacture
- 174 General works  
 174.3 Soft toys  
 174.5.A-Z Other special, A-Z  
 174.5.P3 Paper toys  
 174.5.S35 Scooters, skateboards, etc.  
 174.5.V43 Vehicles  
 174.5.W6 Wooden toys  
 174.7 Puppets  
 For general works on puppetry, including manipulation of puppets, puppet plays, etc. see  
 PN1972+



## Articles for children -- Continued

## Dolls

Including paper dolls

Cf. GV1218.5+ Games and amusements

Cf. NK4891.3+ Decorative arts

Cf. TS2301.T7 Doll manufacture

175

General works

175.3

Dollhouses

175.5

Doll furniture

175.7

Doll clothes

176

Playground equipment

Playhouses see TH4967

178

## Miniature craft

Cf. TT154+ Models and modelmaking

## Woodworking

Cf. TH5601+ Carpentry and joinery

Cf. TS840+ Manufactures of wood

180

General works

185

Elementary works, outline, syllabi, etc.

Including amateurs' manuals

185.5

Woodshops

186

Tools and supplies

Cf. TH5618 Carpentry tools

## Sloyd

187

General works

Special schools see TT167.A+

188

Models

189

Balsa craft

190

Bamboo work

190.5

Cork craft

190.6

Scrollwork

Including jigsaw work, boxes, and other articles made with scroll saws

For fretwork see NK9930

190.8

Wood bending

191

Plywood working

192

Marquetry

## Furniture

Cf. TP1185.F8 Plastic furniture manufacture

Cf. TS879.2+ Furniture manufacture

Cf. TT175.5 Doll furniture

Cf. TT213 Metal furniture

Cf. TT297.5 Plastic furniture craft

194

General works

195

Amateurs' manuals

196

Furniture design. Drawings

197

Box furniture. Cabinetwork

197.5.A-Z

Special, A-Z

197.5.B3

Bars

197.5.B4

Bedroom furniture

197.5.B6

Bookcases

197.5.B68

Boxes

197.5.B8

Built-in furniture

197.5.C45

Chairs

197.5.C5

Children's furniture

197.5.C62

Coffins

197.5.C65

Computer furniture

- Woodworking
- Furniture
  - Special, A-Z -- Continued
  - 197.5.C68 Countertops
  - 197.5.D4 Desks
  - 197.5.D5 Dining room furniture
  - 197.5.E57 Entertainment centers
  - 197.5.K57 Kitchen cabinets, kitchen furniture, etc.
  - 197.5.L34 Lamps. Lighting devices
    - Including candlesticks, chandeliers, sconces, etc.
    - Cf. TK9921 Electricity for amateurs
    - Cf. TT897.2 Decorative crafts
    - Lighting devices see TT197.5.L34
  - 197.5.L5 Living room furniture
  - 197.5.L6 Loudspeaker cabinets
  - 197.5.O9 Outdoor furniture
  - 197.5.T3 Tables
  - 197.5.T65 Toolboxes
    - For wooden boxes in general see TT197.5.B68
  - 197.5.W6 Workbenches
  - 197.7 Wicker furniture
  - 197.8 Rattan furniture
  - 198 Upholstering
  - 199 Repairing. Restoring
  - 199.4 Finishing. Refinishing
  - Carving and whittling
    - Cf. NK9700+ Decorative art
  - 199.7 General works
  - 199.75 Decoys
    - Including painting
  - 199.8 Pyrography. Woodburning
    - Cf. NK8600+ Decorative art
  - 200 General special
    - Including rustic works
    - Picture framing see N8550+
    - Wood staining see TT345
  - Lathework. Turning
    - Cf. TJ1215+ Machine tools
    - Cf. TS546 Watchmakers' lathes
    - Cf. TT207 Metal turning
  - 201 General works
  - 202 Elementary textbooks of woodturning
  - 203 Ornamental, geometric, eccentric, etc.
  - 203.5 Routing. Routers
  - Metalworking
    - Cf. NK6400+ Decorative art
    - Cf. TS720+ Precious metals. Jewelry
  - 205.A1 Periodicals
  - 205.A2-Z General works
  - 206 Metal spinning
  - 207 Metal turning
  - 209 Milling
  - 211 Welding
    - Cf. TK4661 Electric welding
    - Cf. TS227+ Manufacturing processes
  - 212 Jewelry craft

- Metalworking -- Continued
- 213 Other special metal products (not A-Z)  
Including home furnishings in metal
- 213.6 Nail craft
- 214 Scrapmetal craft
- 214.3 Wire craft
- Ironworking. Forging
- Cf. TS225+ Manufacturing processes
- 215 General works
- Blacksmithing
- Cf. SF907+ Horseshoeing
- 218 Periodicals, societies, etc.
- 220 General works
- 221 Amateurs' manuals
- 223 Tables, calculations, etc.
- 224 Equipment and supplies
- 240 Bent iron work. Wrought-iron work
- Cf. NK8200+ Decorative art
- 242 Aluminum work. Aluminum foil craft
- 250 Copperwork
- Cf. NK8100+ Decorative art
- 265 Leadwork
- Cf. NK8350+ Decorative art
- Tinwork. Tin can craft
- Cf. NK8425 Decorative art
- Cf. TS600+ Metal manufactures
- 266 General works
- 266.3 Pewter craft
- Cf. NK8400+ Decorative art
- 267 Soldering and brazing
- Cf. TH6297 Plumbing
- Stencil cutting. Stencil work
- Cf. NK8650+ Decorative stencil work
- 270 General works
- 273 Screen process work. Silk-screen printing
- For serigraphy see NE2236+
- Cf. TT852+ Textile printing
- 288 Bone and horn craft
- Cf. NK6020+ Decorative art
- Cf. TS1050 Manufactures
- 290 Leatherwork
- Cf. NK6200+ Decorative art
- Cf. TS1030+ Manufactures
- Cf. TT666 Gloves
- Cf. TT667 Handbags
- 293 Rock craft
- Including flintknapping
- 295 Cement work, plaster craft, etc.
- Including sand casting, earth casting, etc.
- Cf. NB1190 Sculpture
- Plastic craft
- Including use of plastic foam
- 297 General works
- 297.5 Plastic furniture
- 297.8 Fiberglass craft

- 298 Glass craft  
 Including glass engraving, glass painting, glass constructions, glass forming, etc.  
 Cf. NB1270.G4 Glass sculpture  
 Cf. NE2690 Glass engravings  
 Cf. NK5100+ Decorative arts  
 Cf. TH8271+ Decoration in buildings
- Painting, varnishing, gilding, etc.  
 Including industrial painting  
 Cf. ND25+ Fine arts  
 Cf. NK2140+ Decorative painting  
 Cf. TP934+ Paint manufacture  
 Cf. TS698 Metal painting  
 Cf. TS2030+ Carriage painting  
 Cf. TT851 Textile painting
- 300 Periodicals, societies, etc.  
 301 Collected works (nonserial)  
 303 Directories  
 304 History  
 General works  
 305.A2 Early to 1800  
 305.A3-Z 1800-
- 305.3 Paint shops and equipment  
 310 Paintmixing  
 315 Spray painting  
 317 Electrocoating. Electrophoretic deposition  
 House painting. Painting of buildings and structures  
 Cf. TH8001+ Decoration of buildings
- 320 General works  
 323 Interior painting  
 Including decorative finishes, frescoing, marbling, etc.  
 Cf. TT385 Marbling on various materials
- 324 Painters' materials (General)  
 Cf. TP934+ Paint manufacture
- Wood finishing  
 Cf. TS886 Furniture manufacture  
 Cf. TT199.4 Furniture in woodworking crafts
- 325 General works  
 330 Graining and marbling  
 340 Varnishing  
 345 Wood staining
- Sign painting and lettering. Show cards  
 Cf. NC1800+ Posters
- 360.A1 Periodicals, societies, etc.  
 360.A6-Z General works  
 365 House numbers  
 370 Coloring of bone, stone, etc.  
 378 Lacquering, crackle  
 380 Gilding, bronzing, etc.
- Metal finishing  
 Cf. TS653+ Industrial manufactures
- 382 General works  
 382.2 Coloring  
 382.4 Painting and lacquering  
 382.6 Enameling  
 Including cloisonné and champlevé  
 Cf. NK4997+ Decorative arts

- Painting, varnishing, gilding, etc.  
 Metal finishing -- Continued
- 382.8 Gilding, bronzing, silvering
- 385 Decorative painting on various materials. Tole painting. Marbling  
     Cf. NK5312 Folk art in the United States  
     Cf. NK5313+ Folk art in other countries  
     Cf. TT323 Marbling (Interior painting)
- 386 Felt marker decoration  
 Soft home furnishings  
     Cf. TT198 Upholstering  
     Cf. TT849 Tapestry  
     Cf. TT850 Rugs, carpets, etc.
- 387 General works
- 390 Curtain making. Drapes
- 395 Slipcovers  
 Bedding  
     Cf. TX315 Home furnishings
- 399 General works
- 403 Bedspreads  
     For quilts see TT835+
- 405 Blankets
- 406 Sheets
- 408 Pillowcases
- 410 Pillows and cushions  
 Clothing manufacture  
     Including the garment industry
- 490 Periodicals, societies, etc.
- 494 Dictionaries and encyclopedias
- 495 Directories
- 496.A-Z By region or country, A-Z  
     Subarrange each country by Table T4a
- 497 General works
- 498 Clothing factories  
     Cf. TH4522 Building construction
- 499 Tables, calculations, etc.  
 Dressmaking and women's tailoring. Fashion  
     Cf. GT500+ History of dress and costume  
     Cf. NK4700+ Decorative arts  
     Cf. TR679 Fashion photography
- 500.A1 History and criticism of periodicals
- 500.A2-Z Periodicals and societies. Fashion magazines  
     Cf. PN4784.F33 Journalism
- 502 Fashion shows, exhibitions, etc.
- 503 Dictionaries and encyclopedias  
 Directories see TT495
- 503.5 Fashion writing
- 504 History of dressmaking and tailoring  
 Special countries  
     United States
- 504.4 Other countries, A-Z
- 504.6.A-Z Biography  
     Collective
- 505.A1 Individual, A-Z
- 505.A2-Z e.g.
- 505.P6 Poiret
- 505.W6 Worth

- Clothing manufacture
  - Dressmaking and women's tailoring. Fashion -- Continued
    - 506 Pictorial works
    - 507 Art of dress. Theory. Aesthetics. Costume design
    - 507.5 Fashion as a profession. Vocational guidance
    - 508 Study and teaching
    - 509 Fashion drawing
    - General works
      - 510 Early to 1800
      - 1800-
        - 515 General works
        - 518 Textbooks
        - 519 Addresses, essays, lectures
    - Women's tailoring
      - 519.5 General works
      - 520 Patternmaking and design
        - Including cutting, drafting, measuring and grading
      - 522 Blank forms
      - 523 Dress forms
      - 524 Leather garments
      - 525 Fur garments
      - 530 Coats and capes
      - 535 Jackets
      - 540 Skirts
      - 542 Slacks. Trousers
        - For men's slacks, or men's and women's slacks see TT605
    - 545 Blouses
    - 546 Smocks
      - Cf. TT840.S66 Smocking
    - 546.5 Aprons
    - 547 Maternity clothes
    - 550 Alterations. Restyling
    - 552 Trimming
    - Catalogs and pricelists
      - 555 General works
      - 556 Catalogs of patterns
        - For catalogs issued periodically see TT500+
    - 557 Special fabrics and materials
      - Including buttons, zippers, lining
    - 560 General special
    - 562 Clothing for girls
    - 565 Dress reform
  - Tailoring. Men's clothing
    - Periodicals, societies, etc.
      - 570 Tailoring
      - 572 Furnishing goods, etc.
    - Directories see TT495
    - 574 Dictionaries and encyclopedias
    - Biography see TT505.A1+
    - Tailoring
      - General works
        - 575 Early to 1800
        - 580 1800-
        - 583 Repairing, pressing, etc.
        - 585 General special

- Clothing manufacture
  - Tailoring. Men's clothing
    - Tailoring -- Continued
      - 590 Patternmaking and design
        - Including cutting, drafting, measuring, and grading
      - 593 Study and teaching
      - 595 Coats
      - 600 Overcoats
      - 603 Sleeves
      - 605 Trousers. Slacks
      - 610 Breeches
      - 612 Shirts
      - 615 Vests
      - 616 Neckties
      - 617 Men's fashions
      - 618 Correct dress
        - Catalogs and pricelists
          - 620 General works
          - 625 Uniforms
          - 626 Livery
          - 627 Furnishings
          - 628 Sample books
          - 630 Clothing for boys
          - 633 Costumes for special occasions
        - Children's clothing
          - Cf. TT562 Clothing for girls
        - 635 General works
        - 637 Baby clothes. Layettes
        - 640 Patterns, etc.
        - 645 Catalogs and pricelists
        - 647 Ecclesiastical vestments
          - Cf. BV167 Religion (General)
          - Cf. BX1925 Catholic Church
          - Cf. BX5180 Church of England
          - Cf. NK4850 Art industries
        - 648 Clothing for people with disabilities
        - 649 Other special types of clothing
          - Including work clothes, sport clothes
      - Dress accessories
        - 649.8 General works
        - Millinery
          - Cf. TS2180+ Hats
      - 650 Periodicals, societies, etc.
      - Biography
        - 653.A1 Collective
        - 653.A2-Z Individual, A-Z
      - 655 General works
      - 657 General special
      - 660 Illustrations and styles
      - 665 Catalogs and pricelists
      - 666 Gloves
        - Cf. TS2160 Glove industry
      - 667 Handbags. Tote bags
      - 667.5 Kerchiefs. Bandannas
      - 668 Belts
    - Underwear. Lingerie

- Clothing manufacture
  - Underwear. Lingerie -- Continued
    - 669 Periodicals, societies, etc.
    - 670 General works
    - Special
      - 675 Undershirts
      - 677 Foundation garments
        - Including corsets, girdles, brassieres, etc.
      - 678 Other special
  - 678.5 Footwear
    - Cf. TS989+ Boot and shoemaking
  - Knit goods, hosiery, sweaters, etc. Machine knitting
    - Cf. TS2160 Gloves
    - Cf. TT819+ Hand knitting and crocheting
  - 679 Periodicals, societies, etc.
  - 679.5 Dictionaries and encyclopedias
  - 680 General works
  - 681 Hosiery
  - 682 Other special
  - 683 Trade publications
  - 685 Knitting and crocheting machinery
  - 687 Domestic machines
  - 688 Knit goods specifications
  - 689 Warp knitting
  - 690 General special
  - 695 Directories
- Home arts. Homecrafts
  - Including home arts for women
    - Cf. GT480+ Manners and customs
  - 697 Periodicals, societies, etc.
  - 698 General works
  - Textile arts and crafts
    - Cf. TT387+ Soft home furnishings
    - Cf. TT490+ Clothing manufacture
    - Cf. TT925 Soft sculpture
  - 699 General works
  - Sewing. Needlework
    - Cf. TT845 Needlework tools
  - 700 Periodicals, societies, etc.
  - 705 General works
  - 708 Study and teaching
  - 710 Textbooks
  - 712 Juvenile works
  - 713 Sewing by machine
    - Cf. TJ1501+ Sewing machine construction
  - 715 General special
  - Mending
    - 720 General works
    - 730 Darning
  - Decorative needlework. Fancy work
    - Cf. NK9100+ Decorative work
  - 740 Periodicals, societies, etc.
  - 750 General works
  - 751 General special
  - Patterns
    - 753 General works



- Home arts. Homecrafts
  - Textile arts and crafts
    - Decorative needlework. Fancy work
      - Patterns -- Continued
        - 755 Stamping
        - 760 Stitches
        - Embroidery
          - Cf. NK9200+ Decorative art
          - Cf. TS1783 Manufacture
    - 769.A-Z By region or country, A-Z
      - Subarrange each country by Table T4a
    - 770 General works
    - 770.5 Juvenile works
    - 771 General patterns
    - 772 Machine embroidery
    - 773 Classes of designs
      - e.g. alphabets, birds, flowers
    - 775 Articles embroidered
      - e.g. doilies, table covers
    - 777 Materials
      - e.g. embroidery silk, gold thread
    - 778.A-Z Types of embroidery, A-Z
      - 778.A87 Assisi
      - 778.B5 Blackwork embroidery
      - 778.B73 Brazilian dimensional embroidery
      - 778.C24 Candlewicking
      - 778.C3 Canvas embroidery
      - 778.C63 Couching
      - 778.C65 Counted thread embroidery
      - 778.C7 Crewelwork
      - 778.C76 Cross-stitch
      - 778.F33 Fagoting
      - 778.H43 Hedebo embroidery
      - 778.H83 Huckaback
      - 778.M47 Metal thread embroidery
      - 778.S55 Shisha mirror embroidery
      - 778.S64 Silk ribbon embroidery
      - 778.S75 Stump work
      - 778.W55 White work
    - 779 Appliqué
    - Drawnwork
      - 785 General works
      - Special kinds
        - 787 Hardanger
      - 791.A-Z Other, A-Z
    - Lacemaking
      - Cf. NK9400+ Decorative art
      - Cf. TS1782 Machine-made lace
      - 800 General works
      - 805.A-Z Special laces, A-Z
        - 805.B36 Battenberg lace
        - 805.B63 Bobbin lace
        - 805.H34 Hairpin lace
        - 805.I74 Irish crochet lace
        - 805.K54 Knitted lace
        - 805.N43 Needlepoint lace

- Home arts. Homecrafts
  - Textile arts and crafts
    - Decorative needlework. Fancy work
      - Lacemaking -- Continued
        - 810 Lace craft
          - Knitting and crocheting
            - For bead crochet see TT861.3
            - Cf. RM735.7.K54 Therapeutic use
            - Cf. TT679+ Machine knitting
    - 819.A-Z By region or country, A-Z
      - Subarrange each country by Table T4a
    - 820 General works
    - 825 Shawls, sweaters, socks and other articles
    - 829 Toy-knitting. Spool-knitting for children
    - 833 Locker hooking
      - Class here general works on the technique of hooking. For works on making specific items, see the item, e.g. TT850 Rugs; TT850.2 Wall hangings
      - Cf. TT850 Rugs
    - Quilting and patchwork
      - Including quilts, coverlets, etc. made by this technique
      - Cf. TT779 Appliqué
    - 835 General works
    - 836.A-Z Special patterns and techniques, A-Z
      - 836.M56 Miniature quilts
      - 836.T73 Trapunto
    - 840.A-Z Other kinds of fancy work, A-Z
      - 840.F33 Fabric folding
      - 840.M33 Macramé
      - 840.N48 Netting
      - 840.R66 Ropework
        - Including knots
      - 840.S66 Smocking
      - 840.S68 Sprang
      - 840.T38 Tatting
    - 845 Tools and supplies
      - Including catalogs
    - 847 Hand spinning
      - Including use of the spinning wheel
      - Cf. TS1480+ Industrial spinning
    - Hand weaving
      - Including hand weaving not requiring looms, e. g. card weaving
      - Cf. TS1490+ Industrial weaving
    - 848 General works
    - 848.5 Handlooms
    - 849 Tapestry
      - Cf. NK2975+ Decorative art
      - Cf. TH8481 Tapestrying (Wall decoration)
      - Cf. TS1780 Machine-made tapestry
    - 849.2 Hammocks
      - Cf. GN415.3.H35 Ethnology
      - Cf. TS1781 Textile manufacture
    - 849.5 Felt work
    - 849.7 Textile finishing
    - 850 Hand-made rugs, carpets, etc.
      - Including those made by hooking
    - 850.2 Flags. Banners. Wall hangings

## Home arts. Homecrafts

## Textile arts and crafts -- Continued

- 850.5 Ribbon work  
Including paper ribbon work
- Textile decoration  
Cf. NK9500+ Decorative arts  
Cf. TP890+ Chemical industries
- 851 Textile painting  
Cf. TT323 Marbling (Interior painting)
- 852 Textile printing. Block printing  
General works
- 852.5 Batik  
Cf. NK9503+ Decorative arts
- 852.6 Stencil printing
- 852.7 Transfer printing. Iron-on transfer work  
Cf. NK9510 Art industries
- Textile dyeing  
Including the dyeing of garments
- 853 General works
- 853.5 Tie-dyeing  
Dyes  
General works
- 854 Natural
- 854.3 Synthetic
- 854.5
- Decorative crafts  
Cf. BM729.H35 Jewish handicraft  
Cf. TT205+ Metal crafts
- 855 Periodicals, societies, etc.
- 857 General works
- Beadwork
- 860 General works  
Cf. NK3650+ Decorative art  
Cf. TS2301.B4 Manufactures  
Cf. TT890.2 Bead flowers
- 861.3 Bead crochet
- 862 Shellcraft
- 864 Seed craft
- 865 Sand craft  
Cf. NB1270.S3 Sand sculpture  
Cf. TT295 Sand casting
- 866 Wax craft  
Cf. NK9580+ Wax modeling  
Cf. TT894 Wax flowers
- Printing
- 866.5 General works
- 867 Rubber stamp printing
- 868 Potato printing
- 869 Typewriter art
- 869.5 Computer art. Computer craft  
Cf. N7433.8+ Visual arts
- 869.7 Tape craft

## Home arts. Homecrafts

## Decorative crafts -- Continued

## Paperwork

Including the use of cardboard, corrugated paper, etc.

Cf. TL778 Paper airplanes

Cf. TT175+ Paper dolls

Cf. TT850.5 Paper ribbon work

Cf. TT892 Paper flowers

870 General works

870.5 Box craft

Including box making

871 Papier-mâché craft

Cf. TS1155 Manufactures

871.5 Gift wrapping

872 Greeting card craft

Including making Christmas cards, birthday cards, etc.

872.3 Cut-out craft

872.5 Origami

## Vegetable-fiber work

873 General works

873.2 Banana craft

873.5 Gourd craft

874 Pine needle crafts

874.5 Pine cone craft

875 Raffia and bast work

Cf. LB1543 Primary education

876 Straw work

876.3 Grasswork

876.5 Rattan work

Cf. TT197.8 Rattan furniture

877 Rush work

877.5 Palm frond weaving. Lauhala weaving. Vacoa weaving

877.8 Water hyacinth craft

878 Cornhusk craft

878.5 Leaf craft

879.A-Z Special articles, A-Z

879.B3 Baskets

Cf. NK3649.5+ Decorative arts

Cf. TS910 Industrial basketmaking

879.J3 Jackets for bottles, etc.

Wicker furniture see TT197.7

880 Work in miscellaneous materials

Including felt, string, braid, rubber bands

## Fancy articles

## Artificial flowers

890 General works

890.2 Bead flowers

890.3 Bread flowers

890.4 Ceramic flowers

## Fabric flowers

890.5 General works

890.7 Silk flowers

Cf. SB449.3.S44 Flower arrangement

891 Feather flowers

891.3 Glass flowers

892 Paper flowers

## Home arts. Homecrafts

## Decorative crafts

## Fancy articles

## Artificial flowers -- Continued

- 894 Wax flowers
- 896 Artificial fruits
- 896.3 Books. Altered books
- 896.5 Candles
  - Cf. TP993 Chemical technology of candles
- 896.55 Chessmen
  - Cf. NK4696 Decorative art
- 896.7 Decorated eggs. Eggshell craft
  - Cf. NK4900 Decorative art of Easter eggs
- 896.8 Decorative balls
- 896.9 Glass jars
- 897 Jewelry see TT212
- 897.2 Lampshades
- Lamps
  - Cf. TK9921 Electricity for amateurs
  - Cf. TT197.5.L34 Woodwork
- 898 Masks
  - For theatrical masks see PN2071.M37
- 898.2 Merry-go-round art
- 898.3 Mirrors
  - Cf. NK8440+ Decorative arts
- 899 Mobiles
  - Cf. NB1272 Sculpture
- 899.2 Picture frames
- 899.3 Pincushions
  - Cf. NK4660 Pincushion dolls
- 899.4 Potpourris (Scented floral mixtures)
- 899.45 Screens
- 899.5 Tassels
- 899.6 Vases
- 899.7 Windchimes
- 899.73 Door harps
- 899.74 Tabletop fountains
  - Cf. NK8724 Decorative arts
- 899.75 Plant containers and container gardening equipment see SB418.4
- Wreaths
  - Cf. SB449.5.W74 Flower arrangement
- 900.A-Z Decorations for special events, A-Z
- 900.C37 Carnival
- 900.C38 Chinese New Year
- 900.C4 Christmas
  - Cf. GT4988 Manners and customs
- 900.E2 Easter
- 900.F68 Fourth of July
- 900.H32 Halloween
- 900.H34 Hanukkah
- 900.H6 Holidays
- 900.K92 Kwanzaa
- 900.M68 Mother's Day
- New Year, Chinese see TT900.C38
- 900.P3 Parties
- 900.P74 Presidents' Day

- Home arts. Homecrafts  
 Decorative crafts  
 Decorations for special events, A-Z -- Continued  
 900.S25 Saint Patrick's Day  
 900.T5 Thanksgiving  
 900.V34 Valentine's Day  
 Other special techniques  
 910 Collage, assemblage, constructions, etc. in miscellaneous materials  
     Cf. N6494.A8 Assemblage (Art)  
     Cf. N6494.C6 Collage (Art)  
     Cf. TR685 Composite photography  
 911 Face painting (Handicrafts)  
 912 Rubbing craft  
     Cf. NB1840+ Sculpture  
     Cf. NC915.R8 Graphic arts  
 916 Modeling in clay, etc.  
     Cf. NB1180 Sculpture  
 Pottery craft  
     Cf. NK3700+ Ceramics (Art industries)  
     Cf. TP807+ Ceramic technology  
     Cf. TT890.4 Ceramic flowers  
 919 Periodicals, societies, etc.  
 919.5 Dictionaries and encyclopedias  
 919.7.A-Z By region or country, A-Z  
     Subarrange each country by Table T4a  
 920 General works  
 921 Juvenile works  
     Equipment and supplies  
 921.5 General works  
 922 Glazes  
 924 Kilns  
 925 Soft sculpture  
     Cf. NB1203 Sculpture  
 926 Balloon sculpture. Balloon decorations  
 927 Tile craft  
 Hairdressing, barbering, beauty culture, cosmetology, etc.  
     Including beauty shop practice  
 950 Periodicals. Societies. Collections  
 951 Dictionaries and encyclopedias  
 Documents  
     United States  
         General works  
         States, A-W  
     Other countries, A-Z  
 952 Directories  
 953.A-.W Biography  
 954.A-Z Collective  
 954.5 Individual, A-Z  
 955.A1 General works  
 955.A2-Z Before 1800  
 956 1800-  
 957 General special  
 958 Beauty culture as a profession  
 958.23 Including vocational guidance

## Hairdressing, barbering, beauty culture, cosmetology, etc. -- Continued

- 958.3 Nail care. Manicuring  
Class here works on nail care as practiced by professionals and beauty operators  
For nail care as practiced by individuals see RL94
- 958.5 Skin care  
Class here works on skin care as practiced by beauty operators  
For skin care as practiced by individuals, see RL87
- 959 Permanent makeup
- 960 Barbers' manuals
- 963 Hair styles for men
- 964 Shaving
- Shop management
- 965 General works  
Equipment and supplies
- 966 General works  
Catalogs see TT979
- 967 Razors
- 968 Other special
- 969 Materials  
Including dyes, oils, soaps, etc.
- 970 Haircutting (General)  
Cf. TT960 Barber's manuals
- 971 Study and teaching  
Hairdressing for women
- 972 General works
- 973 Hair tinting and bleaching
- Hairwork
- 975 Braids, wigs, toupees, etc.  
Cf. PN2069 Theatrical wigs
- 976 Ornaments, jewelry, etc.
- 977 Recipes for barbers (for hair preparations)
- 979 Catalogs of equipment and supplies
- Laundry work
- Cf. GT482 Laundering customs  
Cf. TP932+ Dry cleaning
- 980 Periodicals, societies, etc.
- 983 Directories
- 985 General and domestic
- 990 Commercial. Steam-laundry work
- 991 Blueing and bleaching
- 993 Starching
- 995 Ironing
- 997 Materials. Machinery
- 998 General special
- 999 Catalogs, etc.

- Home economics
- 1 Periodicals, societies, etc.
- 5 Congresses
- Exhibitions. Museums
- 6.A1 General works
- 6.A2-Z By region or country, A-Z  
Subarrange each country by Table T4b
- Collected works (nonserial)
- 7 Collections by several authors
- 8 Collected works of individual authors
- 9 Minor collections: Papers, essays, etc.
- 11 Dictionaries and encyclopedias
- 13 Theory. Philosophy
- History and antiquities  
Including manners and customs, gastronomy, etc.  
For modern works on gastronomy see TX631+  
Cf. GT1+ Manners and customs
- 15 General works
- 16 Ancient
- 17 Medieval
- 18 17th-18th centuries
- 19 19th-20th centuries
- 21-127 Special countries (Table T1a)  
Add country number in table to TX0
- Biography
- 139 Collective
- 140.A-Z Individual, A-Z
- General works
- 144 Early to 1800
- 145 1800-  
Textbooks see TX167
- 147 General special  
Including economics of daily life for men, institutional administration
- 148 Juvenile works
- 149 Household science (Chemistry, physics, etc.)
- 150 Home accidents and their prevention  
Pocketbooks, tables, receipts, etc.  
Class here works that emphasize household economics
- 151 16th-18th century  
19th century
- 153 American
- 154 English
- 155 French
- 156 German
- 157 Other (not A-Z)
- 20th century
- 158 American
- 159 English
- 160 French
- 161 German
- 162 Other (not A-Z)
- 21st century
- 162.2 American
- 162.3 English
- 162.4 French
- 162.5 German



- Pocketbooks, tables, receipts, etc.
- 21st century -- Continued
- 162.6 Other (not A-Z)
- 164 Home economics as a profession
- Study and teaching
- 165.A1 Periodicals, societies, etc.
- 165.A3-Z General works
- 167 Textbooks
- 170 Examinations, questions, etc.
- 170.7 Laboratory manuals
- 171-277 Special countries (Table T1a)
- Add country number in table to TX150
- Special schools
- 285.A-Z United States. By school, A-Z
- 286.A-Z Other countries. By school, A-Z
- 295 Essays, light literature, fiction, etc.
- Household apparatus and utensils
- Cf. TX656+ Kitchen utensils
- 298 General works
- 299 Catalogs
- The house
- Cf. NA7120 Domestic architecture (Popular works)
- Cf. TH4805+ House construction
- Cf. TX653+ Kitchens
- Cf. TX855+ Dining rooms
- 301 General works
- 303 General special
- Location
- 305 General works
- 307 Household moving
- 309 Arrangement
- Furnishing
- Cf. TT387+ Soft home furnishings (Handicraft)
- 311 General works
- 315 General special
- Including sheets and pillowcases
- (317) Decoration and ornament
- see NK1700+
- Administration
- 321 General works
- 323 Care of the house
- Cf. TH2528 Flooring
- Cf. TH4817+ Home maintenance and repair
- 324 Cleaning
- Including silver cleaning
- 324.5 Storage in the home
- Including decluttering
- 325 Household pests
- Cf. RA639+ Insects and disease
- Cf. SB818+ Economic entomology
- Cf. SB992+ Noxious and useful animals
- Cf. TA423.7 Termite control
- Finance, budgets, bookkeeping, accounts
- For early works see TX15+
- Cf. HD6977+ Cost of living
- 326.A1 Periodicals. Societies. Serials

- The house
  - Administration
    - Finance, budgets, bookkeeping, accounts -- Continued
  - 326.A3-Z General works
  - Household employees
    - 331 General works
    - 333 General special. Morals, conduct, etc.
    - Biography
      - 334 Collective
      - 334.1.A-Z Individual, A-Z
    - Shopping. Consumer education
      - Including shopping guides and directories of discount and outlet stores
      - For economic aspects of discount and outlet stores see HF5429.2+
      - Cf. TX356 Shopping for food
    - 335 General works
    - 335.5 Juvenile works
      - By region or country
        - United States
          - 336 General works
          - 336.5.A-Z By region or state, A-Z
            - Subarrange each country by Table T4a
        - Other regions or countries, A-Z
          - 337.A-Z Subarrange each country by Table T4a
      - Janitor service
        - 339 Cf. LB3235 Schoolhouse service
        - Cf. TX957+ Apartment house service
  - 340 Clothing
    - Cf. TT490+ Clothing manufacture
    - Cf. TT700+ Sewing
    - Cf. TT980+ Laundry work
  - Nutrition. Foods and food supply
    - Cf. HD9000+ Provision trade
    - Cf. TP368+ Food processing industry
    - Cf. TP500+ Beverage industry
    - Cf. TS1950+ Butchering, packinghouse industries
    - Cf. TS1975 Meat inspection
    - Cf. TS2120+ Cereal and grain milling industry
  - Periodicals, societies, etc. Food research institutes
    - Cf. PN4784.F55 Journalism
  - 341 General periodicals
  - 343 Grocery trade periodicals
  - Periodicals relating to adulteration and inspection see TX501
  - 345 Congresses
    - Directories of grocers see HD9320+
    - Exhibitions. Pure food shows, etc.
      - 346.A1 General works
      - 346.A2-Z Special. By city, A-Z
    - Dictionaries and encyclopedias
      - Including dictionaries of cooking
    - 349 General works
    - 350 Bilingual and polyglot
    - Biography
      - 350.7 Collective
      - 350.8.A-Z Individual, A-Z
    - General works. Sources, supply, etc.
      - 351 Early to 1800

- Nutrition. Foods and food supply  
 General works. Sources, supply, etc. -- Continued
- 353 1800-  
 354 Textbooks  
 354.5 Grocers' catalogs  
 355 Popular works. Juvenile works  
     Cf. TX149 Household science  
     Cf. TX533 Food adulteration, etc.
- 355.5 Addresses, essays, lectures  
 356 Shopping for food. Economy. Thrift  
 357 General special  
     Including dietitians, food economy in war time
- 359 Nutrition policy  
     Prefer classification by country in TX360.A+  
     Cf. HD9000.6 Food products industry
- Diet, food supply, nutrition policy of special countries  
 360.A-Z By region or country, A-Z  
     *Under each country:*  
     .x *General works*  
     .x2A-.x2Z *By state, province, etc., A-Z*  
     .x3A-.x3Z *Special. By city, A-Z*  
     e.g.  
     United States  
     General works  
     By state, A-W  
     By city, A-Z
- 360.U6 Developing countries  
 360.U62A-.U62W  
 360.U63A-.U63Z  
 360.5  
 361.A-Z Diet and nutrition of special classes and groups, A-Z  
 361.A27 African Americans  
 361.A3 Aged. Older people  
 361.A4 Agricultural laborers  
 Astronauts see TX361.S63
- 361.A8 Athletes  
 361.B64 Bodybuilders  
 361.C5 Children  
 361.C6 College students  
 361.C94 Cyclists  
 361.E43 Elementary school students  
 361.E93 Executives  
 361.F37 Farmers  
 361.F5 Fishers  
 361.G74 Greek Americans  
 361.H35 Handicapped. People with disabilities  
 361.H53 High school students  
 361.H57 Hispanic Americans  
 361.H62 Hmong Americans  
 361.H65 Homeless  
 Infants see RJ216  
 Low-income groups see TX361.P66
- 361.M39 Mexican Americans  
 361.M47 Middle-aged persons  
 361.M474 Middle school students  
 361.M48 Migrant laborers  
 361.M5 Miners  
 361.M68 Mountaineers  
 Older people see TX361.A3

- Nutrition. Foods and food supply
  - Diet and nutrition of special classes and groups, A-Z -- Continued
    - People with disabilities see TX361.H35
  - 361.P66 Poor. Low-income groups
  - 361.P74 Preschool children
  - 361.R86 Runners
  - 361.S58 Soccer players
  - 361.S63 Space travelers. Astronauts
  - 361.T44 Teenage girls
  - 361.T45 Tennis players
  - Toddlers see RJ216
  - 361.V47 Veterans
  - 361.W55 Women
  - 361.W6 Workers
  - 361.W7 Working women
  - 361.Y6 Youth
- Study and teaching
  - 364 General works
  - 365.A-Z Special schools, A-Z
  - 367 Research
    - For food research institutes see TX341+
  - Markets see HF5469.7+
  - Grocery business see HD9320+
  - 368 Street food
    - Class here general works on street food
  - 369 Natural foods
  - 370 Junk food. Convenience foods
  - Food of animal origin
    - Cf. TS1959+ Butchering, packinghouse industries, etc.
    - Cf. TS1975 Meat inspection
  - 371 General works
    - Moral and ethical aspects of eating meat see GT2868.55
  - 373 Butchers' meats
  - 375 Poultry and game
    - Cf. SF481+ Poultry culture
  - Dairy foods
    - Cf. SF221+ Dairying
  - 377 General works
  - 379 Milk
  - 380 Yogurt
  - 381 Butter
  - 382 Cheese
  - 383 Eggs
    - Cf. SF481+ Poultry culture
  - 385 Fish
    - Cf. SH1+ Fisheries
  - 387 Shellfish
    - Cf. SH365+ Fisheries
    - Cf. SH380+ Lobster fisheries
- 388.A-Z Other natural products, A-Z
  - 388.I5 Insects
  - 388.T8 Turtles
  - 388.W4 Whales
  - 389 Prepared foods, meat extracts, etc.
    - Including trade publications
- Vegetable foods

- Nutrition. Foods and food supply  
Vegetable foods -- Continued
- 391 General works  
Vegetarianism  
Cf. BL65.V44 Religious aspects  
Cf. TX837+ Cooking
- 392.A1-.A4 Periodicals, societies, etc.  
392.A5-Z General works  
Biography
- 392.7 Collective  
392.8.A-Z Individual, A-Z
- Cereals
- 393 General works  
394 Bread  
394.5 Pasta products  
395 Prepared cereals  
Cf. TP435.C4 Food processing industry
- 396 Flowers  
397 Fruits  
399 Nuts
- Vegetables
- 401 General works  
401.2.A-Z Special, A-Z  
401.2.P47 Peppers. Hot peppers  
401.2.P67 Potatoes  
401.2.S69 Soybeans and soybean products  
Including soy sauce
- 402 Algae as food  
Including marine algae
- Condiments, spices, etc.
- 406 General works  
407.A-Z Special, A-Z  
407.M38 Mayonnaise  
407.O34 Oils and fats, Edible  
407.P4 Pepper  
407.S69 Soy sauce  
407.T87 Turmeric
- 409 Baking powders, etc.  
Beverages  
Cf. TP620+ Chemical technology
- 412 General works  
415 Tea, coffee, cocoa, etc.
- Examination and analysis. Composition. Adulteration  
For foods and public health see RA601+  
For food processing see TP372.5+  
For meat inspection see TS1975
- 501 Periodicals, societies, etc.  
Including those relating to adulteration and inspection  
Cf. TX341+ Nutrition
- 511 Congresses  
For pure food congresses see HD9000.9.A+
- 515 History  
Biography
- 517 Collective  
518.A-Z Individual, A-Z  
e.g.

- Nutrition. Foods and food supply  
 Examination and analysis. Composition. Adulteration  
 Biography  
   Individual, A-Z -- Continued  
 518.W5       Wiley, H. W.  
 531       General works  
 533       Popular works  
 535       General special. Pamphlets  
 537       Food standards, etc.  
 Analysis (Methods)  
 541       General works  
 542       Magnetic resonance imaging  
 543       Microscopic  
 544       Thermal  
 545       Chemical  
 546       Sensory evaluation  
       Spectrum analysis  
 547       General works  
 547.2.A-Z     Special methods, A-Z  
 547.2.I53     Infrared spectroscopy  
 Chromatography  
 548       General works  
 548.2.A-Z     Special methods, A-Z  
 548.2.G36     Gas  
 548.2.L55     Liquid  
 548.2.T48     Thin layer  
 549       Immunoassay  
 Dietary studies, food values, experiments, tests, etc.  
   Cf. RM214+ Therapeutics  
   Cf. TX341+ Food supply  
   Cf. TX361.A+ Foods for special classes  
 551       General works  
 552       Canned foods  
 552.15       Baked products  
 553.A-Z       Special constituents, A-Z  
 553.A3       Additives  
 553.A5       Amino acids  
 553.A7       Antibiotics  
 553.A73       Antioxidants  
 553.A8       Ascorbic acid  
 553.C23       Calcium  
 553.C28       Carbohydrates  
 553.C3       Carotinoids  
 553.C43       Cholesterol  
 553.C45       Choline  
 553.E6       Enzymes  
 553.F53       Fibers  
 553.G47       Gluten  
 553.I75       Iron  
 553.L5       Lipids  
 553.M55       Minerals  
 553.P4       Pectic substances  
 553.P45       Phosphorus  
 553.P65       Polysaccharides  
 553.P7       Proteins  
 553.S65       Sodium

Nutrition. Foods and food supply  
 Examination and analysis. Composition. Adulteration  
 Dietary studies, food values, experiments, tests, etc.  
 Special constituents, A-Z -- Continued

553.S8 Sugar  
 553.S85 Sulfur  
 553.T7 Trace elements  
 553.U5 Unsaturated fatty acids  
 553.V5 Vitamins  
 553.W3 Water

Special foods  
 Food of animal origin

555 General works  
 556.A-Z Special, A-Z  
 556.B4 Beef  
 556.B8 Buffalo  
 556.C35 Camel meat  
 Dairy products see TX556.M5  
 556.E4 Eggs  
 556.G45 Gelatin  
 556.H8 Horsemeat  
 556.K36 Kangaroo meat  
 556.L3 Lamb  
 556.M4 Meat  
 556.M43 Meat, Precooked  
 556.M5 Milk and milk products  
 556.P6 Pigeons  
 556.P8 Pork  
 556.P9 Poultry  
 556.V4 Venison  
 556.5 Fish. Seafood

Vegetables, cereals, fruits, etc.

557 General works  
 558.A-Z Special, A-Z  
 558.A3 Acorns  
 558.A6 Apples  
 558.B3 Bananas  
 558.B35 Barley  
 Bean curd see TX558.T57  
 558.B4 Beans  
 558.B6 Bran  
 (558.B7) Bread  
     see TX560.B8  
 558.C2 Cabbage  
 558.C35 Cassava  
 558.C38 Chia  
 558.C4 Chickpea  
 558.C5 Citrus fruits  
 558.C54 Coca flour  
 558.C57 Corn. Cornmeal. Maize  
 558.C6 Cowpea  
 558.D3 Dasheen  
 558.D35 Dates  
 Flour see TX558.W5  
 558.F7 Fruit (General)  
 558.G6 Grapes

Nutrition. Foods and food supply  
 Examination and analysis. Composition. Adulteration  
 Dietary studies, food values, experiments, tests, etc.

Special foods

Vegetables, cereals, fruits, etc.

Special, A-Z -- Continued

558.G67	Groats
558.H2	Hay
558.L4	Legumes (General)
558.L5	Lemon
558.L6	Logan blackberry
	Maize. Corn, cornmeal see TX558.C57
558.M5	Millet
558.M9	Mushrooms and other fungi
558.N6	Nori
558.N8	Nuts
558.O3	Oats
558.O5	Olives
558.O7	Oranges
558.P3	Peaches
558.P35	Peas
558.P8	Potatoes
558.Q56	Quinoa
558.R4	Rhubarb
558.R5	Rice
558.R9	Rye
558.S6	Sorghum
558.S7	Soybean
558.S75	Sprouts
558.S8	Starches
558.S94	Sweet potatoes
558.T39	Tempeh
558.T57	Tofu
558.T6	Tomatoes
558.T7	Triticale
558.V4	Vegetable juices
558.W5	Wheat. Flour
	Miscellaneous products
559	General works
560.A-Z	Special, A-Z
560.A3	Alcohol
560.B8	Bread
560.C2	Cacao
	Cocoa-butter see TP684.C2
560.C63	Coffee
560.C65	Confectionery
560.C7	Cottonseed products
560.D68	Dough
560.F3	Fats (Animal and vegetable)
560.F47	Fermented food
560.H7	Honey
560.M2	Macaroni
560.M3	Maple sugar. Maple syrup
560.M35	Mate (Tea)
560.N7	Nut oils
560.O3	Oils (General)



- Nutrition. Foods and food supply  
 Examination and analysis. Composition. Adulteration  
 Dietary studies, food values, experiments, tests, etc.  
 Special foods  
 Miscellaneous products  
 Special, A-Z -- Continued
- 560.O4 Olive oil  
 560.P6 Pollen  
 560.S4 Seed oils  
 560.S9 Sugar  
 560.Y4 Yeast
- Adulterants and adulteration, impurities, etc.  
 Cf. QP501+ Physiological effects of chemicals  
 Cf. RA601+ Public hygiene - Foods  
 General works see TX531
- 563 Detection of adulterants  
 567 Microscopic analysis  
 569 Chemical analysis  
 Special adulterants and impurities  
 By classes, A-Z  
 Cf. TX599+ Preservatives
- 571.A58 Antibiotic residues  
 571.C7 Coloring matter  
 571.G3 Gases, Asphyxiating and poisonous  
 571.M48 Metals  
 571.P4 Pesticide residues  
 571.P63 Plastics. Urethanes  
 571.R3 Radioactivity  
 571.S65 Solvents  
 571.S9 Sweeteners, Artificial  
 Urethanes see TX571.P63
- 571.V48 Veterinary drug residues  
 571.X45 Xenobiotics
- 572.A-Z By chemical composition, A-Z  
 572.A6 Aluminum  
 572.A77 Arsenic  
 572.C24 Cadmium  
 572.C3 Calcium sulfate  
 572.H4 Heavy metals  
 572.L4 Lead  
 572.M4 Mercury  
 572.N5 Nitrates, nitrites  
 572.P65 Polychlorinated biphenyls  
 572.S79 Styrene  
 572.S9 Sulfurous acid  
 572.T6 Tin
- Special foods  
 Including methods of analysis
- 583 Coffee  
 585 Tea  
 Milk see SF254.A1+  
 Spices  
 General works  
 Special, A-Z
- 587  
 588.A-Z  
 589 Flavoring extracts  
 595.A-Z Other foods, A-Z

- Nutrition. Foods and food supply
  - Examination and analysis. Composition. Adulteration
    - Adulterants and adulteration, impurities, etc.
      - Special foods
        - Other foods, A-Z -- Continued
          - 595.F47 Fish
          - 595.F5 Flour
          - 595.R37 Rape oil
          - 595.T6 Tomatoes
      - Beverages
        - 596 General works
        - 597 Alcoholic beverages
          - Cf. TP612 Compounding
  - Preservation and storage of foods in the home. Food handling in the home
    - Cf. HD9320+ Grocery trade
    - Cf. RA601+ Public hygiene
    - Cf. SB129+ Farm produce
    - Cf. SF250.5+ Dairy products
    - Cf. SH334.9+ Fishery products
    - Cf. TP371.2+ Food processing industry
    - Cf. TS1968 Poultry processing
- 599 Periodicals. Societies. Serials
- 600 Directories
- 601 General works
- 602 Study and teaching. Research
- 603 Canning
  - Cold storage see TP372.2
  - Chemical treatment. Preservatives see TP371.4+
- 609 Drying, smoking, etc.
  - Cf. TX835 Smoked foods cooking
- 610 Freezing
  - Sterilization see TP371.35
    - Radiation sterilization see TP371.8
- 612.A-Z Special foods and condiments, A-Z
  - 612.A6 Apples
  - 612.B4 Berries
  - 612.C5 Cherries
  - 612.C57 Citrus fruits
  - 612.E4 Eggs
  - 612.F5 Fish (General)
  - 612.F7 Fruit (General)
    - Game dressing and skinning see SK36.2
  - 612.J3 Jam (General)
  - 612.J4 Jelly (General)
  - 612.M37 Marmalade
  - 612.M4 Meat
  - 612.M8 Mushrooms
  - 612.T7 Tomatoes
  - 612.V4 Vegetables (General)
    - Cf. SB324.85 Storage for market
- Gastronomy, pleasures of the table, dining, etc.
  - Including food tourism
- 631 General works
- 633 American
- 635 English
- 637 French

- Nutrition. Foods and food supply
  - Gastronomy, pleasures of the table, dining, etc. -- Continued
    - 639 German
    - 641 Other (not A-Z)
- Cooking
  - Periodicals see TX1
  - Exhibitions. Museums see TX6.A1+
  - 642 Collectors and collecting. Collectibles
  - Dictionaries and encyclopedias see TX349+
  - Communication of cooking information
    - 643 General works
    - 644 Language. Authorship
    - 645 History
    - 648 Awards, prizes, etc. Competitions
  - Biography
    - Including works on cooks, food writers, etc.
    - 649.A1 Collective
    - 649.A2-Z Individual, A-Z
  - 650 Directories
    - For directories of restaurants, etc. see TX907+
  - 651 General works
    - Treatises
      - Class here works emphasizing technique of cooking, with or without recipes
      - Cf. TX714 General recipe collections
    - 652 General special
    - 652.4 Vocational guidance
      - Cf. TX911.3.V62 Vocational guidance for the hospitality industry
    - 652.5 Juvenile works
    - 652.7 Minor works, tables, etc.
    - 652.9 Essays, lectures, etc.
    - 652.95 Molecular gastronomy
  - Kitchen
    - Class here works on kitchens, including history, construction, and kitchenware in general
    - For works on interior design, decoration, and plans for kitchens see NK2117.K5
    - 653 General works
    - 655 Arrangement
  - Equipment, appliances, utensils, etc.
    - Cf. NK6140 Kitchen collectibles
    - 656 General works
    - 657.A-Z Special, A-Z
      - 657.A66 Apple parers. Peelers
      - 657.B34 Baking pans
      - 657.C37 Cast-iron cookware
      - Chafing dishes see TX825
      - 657.C67 Coffee making paraphernalia
      - 657.C7 Cookers
      - 657.C72 Cookie molds. Cookie cutters
      - Cookware
        - 657.C74 General works
        - Baking pans see TX657.B34
        - Cast-iron cookware see TX657.C37
        - Kettles see TX657.K4
      - 657.C76 Corkscrews
      - 657.D6 Dishwashing machines
      - 657.E35 Eggbeaters
      - Fireless cookers see TX831

## Cooking

## Equipment, appliances, utensils, etc.

## Special, A-Z -- Continued

- 657.F7 Fryers
- 657.I24 Ice cream scoops
- 657.K4 Kettles
- 657.K54 Knives
- 657.M85 Muffin pans
- 657.N87 Nutcrackers
- Ovens
  - 657.O57 Brick. Clay
  - 657.O6 Gas
  - 657.O64 Microwave
- Peelers, Apple see TX657.A66
- 657.P47 Pestles
- 657.P6 Potato peeling machines
- 657.S28 Spoons
- Stoves and ranges
  - Cf. TS425 Stove manufacture
  - 657.S3 General
  - 657.S4 Coal
  - 657.S5 Electric
  - 657.S6 Gas
  - 657.S7 Gasoline
  - 657.S8 Oil
  - 657.S9 Wood
- 657.T43 Tea making paraphernalia
- Toasters
  - 657.T58 Electric
  - 657.T6 Gas
- 658 Catalogs of miscellaneous articles
- Study and teaching
  - 661 General works
  - 663 Textbooks, etc.
  - Special schools
    - 667 American
    - 669.A-Z Other countries, A-Z
- Cooking processes
  - 681 General works
  - 683 Baking
  - 685 Boiling
  - 686 Braising
  - 687 Broiling
  - Frying
    - 689 General works
    - 689.4 Sautéing
    - 689.5 Stir frying
  - 690 Roasting
  - 690.7 Sous-vide
  - 691 Steaming
  - 693 Stewing. Cooking en casserole
- Cookbooks
  - Early to 1800
    - 703 American. Canadian
    - 705 English
    - 707 French

## Cooking

## Cookbooks

## Early to 1800 -- Continued

- 709 German
- 711 Italian
- 713 Other (not A-Z)

## 1800-

- 714 General recipe collections
  - Class here works consisting of collected recipes not primarily of a regional, ethnic, or international nature, nor using a specific ingredient or method of cooking, in which the technique of cooking is not emphasized
  - For treatises see TX651
  - For ethnic or regional cooking see TX714+
  - For international cooking see TX725.A1

## American

- For French, German, etc., cookbooks published in America, see TX719, TX721, etc.
- For Indian cooking see E98.F7

- 715 General works
- 715.2.A-Z By style of cooking, A-Z
- 715.2.A47 African American cooking
- 715.2.C34 California style
- Hawaiian style see TX724.5.H3
- 715.2.L68 Louisiana style
- 715.2.M53 Midwestern style
- 715.2.N48 New England style
- 715.2.P32 Pacific Northwest style
- Pennsylvania Dutch style see TX721
- 715.2.S68 Southern style
- 715.2.S69 Southwestern style
- 715.2.W47 Western style

- 715.6 Canadian
- 715.8 Greenlandic
- Latin American
- 716.A1 General works
- 716.A3-Z By region or country, A-Z
- 717 English
- 717.2 Celtic
- 717.3 Scottish
- 717.5 Irish
- 717.7 Welsh

- French
- 719 General works
- 719.2.A-Z By style of cooking, A-Z
- 719.2.A45 Alsatian
- 719.2.A98 Auvergne
- 719.2.B74 Brittany
- 719.2.B87 Burgundy
- 719.2.C67 Corsican
- 719.2.F73 Franche-Comté
- 719.2.G37 Gascony
- 719.2.N67 Normandy
- 719.2.P75 Provençal
- 721 German. Austrian
  - Including Pennsylvania-Dutch cookbooks
- Scandinavian
- 722.A1 General works

## Cooking

## Cookbooks

## 1800-

## Scandinavian -- Continued

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

## Italian

723 General works

723.2.A-Z By style of cooking, A-Z

723.2.N65 Northern

723.2.S55 Sicilian

723.2.S65 Southern

723.2.T86 Tuscan

## Russian

723.3 European

723.4 Asiatic

Including Caucasian

## Other European

723.5.A1 General works

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

## Jewish. Israeli

Cf. TX739.2.H35 Hanukkah

Cf. TX739.2.P37 Passover

724 General works

724.2.A-Z By style of cooking, A-Z

724.2.A75 Ashkenazic

724.2.H86 Hungarian

724.2.I73 Iraqi

724.2.M67 Moroccan

724.2.S36 Samaritan

724.2.S47 Sephardic

724.2.T75 Tripolitanian

724.2.T87 Turkish

724.2.U93 Uzbek

724.2.Y46 Yemenite

## Oriental. Asian

Including East Asian, South Asian, Southeast Asian, Polynesian, and Asian American

For Asiatic Russian see TX723.4

For Middle Eastern see TX725.M628

724.5.A1 General works

724.5.A3-Z By region or country, etc., A-Z

e. g.

724.5.C5 Chinese

724.5.H3 Hawaiian

724.5.I4 India

724.5.I5 Indonesia

724.5.J3 Japan

724.5.K65 Korea

724.5.T5 Thailand

724.5.V5 Vietnam

## Other

725.A1 International

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

Including Africa, Australia, Middle East, etc.

725.M628 Middle East

(725.N36) Near East

see TX725.M628

## Cooking

## Cookbooks -- Continued

## Cooking using alcoholic or fermented beverages

Cf. TP500+ Fermented beverages. Alcohol

726

Wine. Liquors

726.2

Cider

726.3

Beer

726.4

Makkölli

## Menus, bills of fare, kitchen almanacs, etc.

Cf. TX911.3.M45 Hotels, clubs, restaurants, etc.

727

Early to 1800

728

1800-

731

Entertaining, dinner-giving, etc.

For entertaining in which food is not primary see GV1+

## Special meals

For individual foods or ingredients see TX743+

For special methods of cooking see TX820.2+

733

Breakfasts. Brunches

735

Luncheons

Including lunchbox cooking

736

Afternoon teas

Cf. GT2905+ Tea customs

Cf. TX817.T3 Beverages

737

Dinners

738

Suppers

738.5

Buffets

## Special occasions. Holidays

General works

739

By occasion or holiday, A-Z

739.2.A-Z

Advent

739.2.A48

Christmas

739.2.C45

Easter

739.2.E37

Fast day see TX837+

739.2.H34

Halloween

739.2.H35

Hanukkah

Lent see TX837+

739.2.P37

Passover

Picnics see TX823

739.2.R67

Rosh ha-Shanah

739.2.T45

Thanksgiving

739.2.V34

Valentine's Day

740

## Miscellaneous recipes. Canapes, hors d'oeuvres, salads, etc.

For vegetable salads see TX807

740.5

## Food presentation. Garnishes

741

## Natural foods

742

## Raw foods

## Food of animal origin

743

General works

745

Eggs

746

Insects

746.2

Earthworms

## Fish. Seafood

Cf. TX753+ Shellfish

747

General works

748.A-Z

Special, A-Z

748.A53

Anchovies

## Cooking

## Food of animal origin

## Fish. Seafood

## Special, A-Z -- Continued

748.B37 Bass  
 748.B55 Bluefish  
 748.B67 Bowfin  
 748.B85 Burbot  
 748.C35 Carp  
 748.C36 Catfish  
 748.C38 Caviar  
 748.C63 Codfish  
 748.C73 Crappie  
 748.D64 Dogfish  
 748.E32 Eels  
 748.F83 Fugu  
 (748.G7) Grayfish  
                   see TX748.D64  
 748.G74 Groupers  
 748.H33 Haddock  
 748.H35 Halibut  
 748.H45 Herring  
 748.M32 Mackerel  
 748.M84 Mullet  
 748.P54 Pike  
 748.P64 Pollock  
 748.S24 Salmon  
 748.S26 Sardines  
 748.S43 Shad  
 748.S5 Sharks  
 748.S58 Skates (Fishes)  
 748.S68 Squid  
 748.S75 Striped bass  
 748.T54 Tilefish  
 748.T74 Trout  
 748.T84 Tuna  
 748.W48 Whale meat

## Meat

749 General works  
 749.5.A-Z Special, A-Z  
 749.5.A44 Alligator  
                   Bacon see TX749.5.P67  
 749.5.B43 Beef  
                   Game see TX751  
 749.5.G63 Goat meat  
 749.5.H35 Ham  
 749.5.H67 Horsemeat  
 749.5.L35 Lamb and mutton  
 749.5.P67 Pork  
                   Including bacon  
                   Poultry see TX750+  
 749.5.R32 Rabbit  
 749.5.S28 Sausages  
 749.5.V37 Variety meats

## Poultry

750 General works



## Cooking

## Food of animal origin

## Poultry -- Continued

750.5.A-Z Special, A-Z  
 750.5.C45 Chicken  
 750.5.D82 Duck  
 750.5.E45 Emu  
 750.5.O77 Ostrich  
 750.5.P45 Pheasant  
 750.5.Q34 Quail  
 750.5.T87 Turkey

751

## Game

## Shellfish

753 General works  
 754.A-Z Special, A-Z  
 754.C53 Clams  
 754.C83 Crabs  
 754.C84 Crayfish  
 754.L63 Lobsters  
 754.M98 Mussels  
 754.O98 Oysters  
 754.S33 Scallops  
 754.S58 Shrimp  
 754.S63 Snails

757

## Soups

## Dairy products

759 General works  
 759.5.A-Z Special, A-Z  
 759.5.B87 Butter  
 759.5.C48 Cheese  
 Evaporated milk see TX759.5.M54  
 759.5.M54 Milk  
 759.5.S68 Sour cream and milk  
 759.5.Y63 Yogurt

## Baking, Confectionery

Cf. GT5960.B34+ Manners and customs

761 Periodicals, societies, etc.  
 763 General works  
 765 Minor works, recipe books, etc.  
 767.A-Z Recipes for special food products, A-Z  
 767.A65 Apple butter  
 767.C37 Caramel  
 767.C5 Chocolate  
 767.H7 Honey  
 767.M3 Maple sugar and syrup  
 767.W48 White chocolate

## Bread

769 General works  
 770.A-Z Special breads, A-Z  
 770.B35 Bagels  
 770.B55 Biscuits. Scones  
 770.C45 Challah  
 770.C64 Corn bread  
 770.C72 Crackers  
 Crepes see TX770.P34  
 770.C74 Croissants

## Cooking

## Baking. Confectionery

## Bread

## Special breads, A-Z -- Continued

- 770.D67 Doughnuts
- 770.F55 Filo dough
- 770.F57 Flatbreads
  - For individual types of flatbreads, see the type, e.g., Focaccia, TX770.F63
- 770.F63 Focaccia
- 770.F73 French toast
- 770.L38 Lavash
- 770.L44 Lefse
- 770.M83 Muffins
- 770.P34 Pancakes. Waffles. Crepes
- 770.P56 Pita bread
- 770.P58 Pizza
- 770.P73 Pretzels
- 770.S66 Scones see TX770.B55
- 770.T65 Sourdough bread
- 770.T65 Tortillas
- 770.W56 Waffles see TX770.P34
- 770.W56 Whole wheat bread

## Cakes

- Including cupcakes
- 771 General works
- 771.2 Cake decorating
- 771.4 Cake pops
- Cheesecake see TX773
- 772 Cookies
- 773 Desserts, pies, and puddings. Pastry
  - Including cheesecake
- 775 Directories of bakers, etc.
- 776 Bakers' trade publications
- 778 Bakers' and confectioners' supplies
  - Including catalogs
  - Cf. TX657.B34 Baking pans

## Confectionery

- Periodicals see TX761
- 783 General works
- Candy
  - 784 History of candy manufacture
  - 791 General works
  - 792 Juvenile works
  - 793 Candymakers' tools, etc.
- Desserts see TX773
- Ice creams and ices
  - 795.A1 Periodicals, societies, etc.
  - 795.A2-Z General works
  - 796.A-Z Special forms, flavors, etc. A-Z
  - 796.I45 Ice cream sandwiches
  - 796.I46 Ice pops
  - 799 General special
- Vegetables (Preparation)
  - Cf. TX392+ Vegetarianism
- 801 General works
- 803.A-Z Special vegetables, A-Z

## Cooking

## Vegetables (Preparation)

## Special vegetables, A-Z -- Continued

- 803.A7 Artichokes  
 803.A8 Asparagus  
 Bean curd see TX814.5.T63  
 803.B4 Beans  
 803.B66 Broccoli  
 803.B7 Brussels sprouts  
 803.C3 Cabbage  
 803.C35 Carrots  
 803.C37 Cassava  
 803.C38 Cauliflower  
 803.C45 Celery  
 803.C68 Cowpeas  
 803.C83 Cucumbers  
 803.D34 Dandelions  
 803.E4 Eggplant  
 803.F85 Fungi  
 803.G74 Greens  
 803.L4 Leeks  
 803.L46 Lentils  
 803.O37 Okra  
 803.O5 Onions  
 803.P35 Peanuts  
     Cf. TX814.5.P38 Peanut butter  
 803.P4 Peas  
 803.P46 Peppers  
 803.P8 Potatoes  
 803.P93 Pumpkin  
 803.R33 Radishes  
 803.R58 Rhubarb  
 803.S6 Soybeans  
 803.S63 Spaghetti squash  
 803.S67 Squash  
 803.S94 Sweet potatoes  
 803.T37 Taro  
 803.T6 Tomatoes  
     Cf. TX814.5.T65 Tomato paste  
 803.T87 Turnips  
 Vegetable spaghetti see TX803.S63  
 803.Y38 Yautia  
 803.Z82 Zucchini  
 804 Mushrooms  
     Including specific types of mushrooms  
 804.5 Truffles  
 805 Pickles  
 806 Kimch'i  
 807 Salads
- Cereals (Preparation)
- 808.A1 Periodicals, societies, etc.  
 808.A2-Z General works  
 809.A-Z Special, A-Z  
     Cf. TX395 Prepared cereals  
     Cf. TX803.A+ Special vegetables  
 809.B75 Brown rice

## Cooking

## Cereals (Preparation)

## Special, A-Z -- Continued

809.B8 Buckwheat  
 809.B85 Bulgur  
 Corn see TX809.M2  
 809.C68 Couscous  
 Fried rice see TX809.R5  
 809.G55 Gluten  
 809.G7 Granola  
 809.M17 Macaroni. Pasta  
 809.M2 Maize. Corn  
 809.N65 Noodles  
 809.O22 Oat bran  
 809.O23 Oats  
 Pasta see TX809.M17  
 809.P67 Porridge  
 809.Q55 Quinoa  
 809.R5 Rice  
 Including fried rice  
 809.R515 Rice cakes  
 809.R52 Rice flour  
 809.S64 Spelt  
 809.W45 Wheat  
 809.W453 Wheat germ  
 809.W55 Wild rice

## Fruits (Preparation)

## General works

## Special fruits, A-Z

811  
 813.A-Z  
 813.A6 Apples  
 813.A64 Apricots  
 813.A9 Avocados  
 813.B3 Bananas  
 813.B4 Berries  
 813.B5 Blueberries  
 813.B73 Breadfruit  
 813.C4 Cherries  
 813.C5 Citrus fruits  
 813.C7 Cranberries  
 813.C87 Currant grapes  
 813.D3 Dates  
 813.F5 Figs  
 813.G73 Grapefruit  
 813.G74 Grapes  
 813.G83 Guava  
 813.H83 Huckleberries  
 813.J33 Jackfruit  
 813.K55 Kiwifruit  
 813.L4 Lemons  
 813.L55 Limes  
 813.M35 Mangos  
 813.M44 Melons  
 813.O4 Olives  
 813.O6 Oranges  
 813.P3 Papaya  
 813.P34 Passion fruit

## Cooking

## Fruits (Preparation)

## Special fruits, A-Z -- Continued

813.P38 Peach palm  
 813.P4 Peaches  
 813.P43 Pears  
 813.P45 Persimmons  
 813.P5 Pineapples  
 813.P55 Plums  
 813.P64 Pomegranates  
 813.P78 Prunes  
 813.R34 Raisins  
 813.R37 Raspberries  
 813.S85 Stone fruit  
 813.S9 Strawberries

## Nuts (Preparation)

## General works

## Special nuts, A-Z

814  
 814.2.A-Z  
 814.2.A25 Acorns  
 814.2.A44 Almonds  
 814.2.C37 Cashews  
 814.2.C48 Chestnuts  
 814.2.C63 Coconuts  
 814.2.H39 Hazelnuts  
 814.2.M33 Macadamia  
 814.2.P4 Pecans  
 814.2.P46 Pine nuts  
 814.2.W3 Walnuts

## Other, A-Z

814.5.A75 Aphrodisiacs  
 Bean curd see TX814.5.T63  
 814.5.C35 Carob  
 814.5.C63 Coconut flour  
 814.5.F5 Flowers  
 814.5.G4 Gelatin  
 814.5.H45 Hemp  
 814.5.H66 Hops  
 814.5.J35 Jam  
 814.5.K83 Kudzu  
 814.5.L68 Lotus  
 814.5.M63 Mochi  
 814.5.P38 Peanut butter  
 814.5.P66 Popcorn  
 814.5.P76 Poppies  
 814.5.R53 Rice cakes  
 814.5.R58 Roselles  
 814.5.R6 Roses  
 814.5.S34 Sago  
 814.5.S44 Seeds  
 814.5.S47 Sesame. Tahini  
 Tahini see TX814.5.S47  
 814.5.T45 Tempeh  
 814.5.T48 Textured soy protein  
 814.5.T63 Tofu  
 814.5.T64 Tomato juice  
 814.5.T65 Tomato paste

## Cooking -- Continued

## Beverages

Cf. TP500+ Technology

Cf. TX726+ Cooking using alcoholic or fermented beverages

Cf. TX911.3.M45 Food and wine pairing

Cf. TX951 Bartenders' manuals

815

General works

817.A-Z

Special beverages, A-Z

Beer see TX726.3

817.C36

Cannabis drinks

817.C4

Chocolate

Including cocoa

817.C6

Coffee

Fermented beverages see TP500+

Flower teas see TX817.T3

817.F78

Fruit drinks

Herbal teas see TX817.T3

817.L45

Lemonade

817.M5

Milkshakes. Malted milk

817.P86

Punches

817.S636

Smoothies

817.S64

Soft drinks

817.T3

Tea

Including herbal teas, flower teas, etc.

818

Sandwiches

Condiments, sauces, etc.

819.A1

General works

819.A3-Z

Special, A-Z

Cf. TX740 Canapes, hor d'oeuvres, etc.

Cf. TX805 Pickles

Cf. TX840.B3 Barbecuing

819.B37

Basil

819.C36

Canola oil

819.C53

Cinnamon

819.C58

Coconut oil

819.C6

Coffee (as a flavor)

819.C65

Coriander

819.C9

Curry

819.F78

Fructose

819.G3

Garlic

819.G53

Ginger

819.G55

Glutamate

819.H4

Herbs

Cf. GT5164 Manners and customs

819.H66

Hot peppers

819.K48

Ketchup

819.L38

Lavender

819.M25

Marijuana

819.M26

Marinades

819.M3

Mayonnaise

819.M56

Mint

819.M57

Miso

819.M65

Molasses

819.M87

Mustard

819.O4

Olive butter

819.O42

Olive oil

## Cooking

## Condiments, sauces, etc.

## Special, A-Z -- Continued

- 819.P3 Pepper
- 819.P45 Pestos
- 819.S24 Saffron
- 819.S27 Salad dressing
- 819.S29 Salsas
- 819.S32 Salt
- 819.S58 Soy sauce
- 819.S75 Stevia
- 819.S8 Stocks
- 819.S94 Sugar
- 819.S96 Syrups
- 819.T43 Tahini see TX814.5.S47
- 819.V37 Tea (as a flavor)
- 819.V5 Vanilla
- 819.V5 Vinegar
- 819.W5 White sauce
- 819.W65 Worcestershire sauce
- 820 Cooking for large numbers. Institutional cooking
  - For communal kitchens see TX946
- Other special varieties of cooking
  - For individual foods or ingredients see TX743+
  - Army see UC720+
- 821 Canned foods, etc.
- 823 Camp and picnic. Outdoor cooking
- Casserole cooking see TX693
- 825 Chafing dish cooking
- 825.5 Clay pot cooking
- 826 Cold-storage foods
- Cooking for sick soldiers see UH487+
- Cooking for the sick see RM219+
- Diabetic cooking see RC662
- 826.5 Dried foods
- 827 Electric cooking. Slow cooking
  - Cf. TX657.S5 Electric stoves
  - Cf. TX832 Microwave cooking
- Fast day see TX837+
- 827.5 Fermented food
- 828 Frozen food
- 829 Hot weather
- 830 Cold dishes
- 831 Fireless cookers. Hayboxes, etc.
- 832 Microwave cooking
- Navy see VC350+
- 833 Paper-bag cooking
- 833.5 Quick and easy cooking
- 834 Skewer cooking. Kabobs
- 835 Smoked foods
  - Cf. TX609 Smoking of foods
- 835.5 Solar cooking
- 836 Stuffed foods
- Vegetarian. Vegan. Lenten. Fast day
  - Cf. TX391+ Vegetables
- 837 General works

## Cooking

## Other special varieties of cooking

Vegetarian. Vegan. Lenten. Fast day -- Continued

- 838 Meat substitutes
- 840.A-Z Other special, A-Z
- 840.B3 Barbecue cooking
- 840.B5 Blender recipes
- 840.C65 Convection oven cooking
- 840.D88 Dutch oven cooking
- 840.F5 Fireplace cooking
- 840.F6 Food processor recipes
- 840.F76 Food truck cooking
- 840.J84 Juicer recipes
- 840.M35 Lunchbox cooking see TX735
- Mandoline recipes
- Marine cooking see TX840.M7
- 840.M5 Mixer recipes
  - For smoothies see TX817.S636
- 840.M6 Mobile home cooking
- 840.M7 Motorboat cooking. Marine cooking
- 840.O53 One-dish meals
- 840.P7 Pressure cooker recipes
- 840.S55 Skillet cooking
- Slow cooking see TX827
- 840.S63 Smart cooker recipes
- 840.T63 Toaster oven cooking
- Trailer cooking see TX840.M6
- 840.W65 Wok cooking
  - Cf. TX724.5.C5 Chinese cooking

## Dining-room service

- 851 General works
- Dining room
- 855 General works
- 857 Arrangement
- 859 Decoration
- Table
- 871 General works
- 873 Arrangement
- 877 Furnishings
- 879 Decoration
- 881 Serving
- 885 Carving

## Hospitality industry. Hotels, clubs, restaurants, etc. Food service

- Cf. GT3770+ Manners and customs
- Cf. GV198.945+ Farm vacations, dude ranches, etc.
- Cf. GV854.35+ Ski resorts
- Cf. NA7800+ Architecture
- Cf. RA794 Health resorts
- Cf. SH405 Fishing resorts
- 901 Periodicals, societies, etc.
- 905 Dictionaries and encyclopedias
- Directories
  - Including restaurant and hotel guidebooks, etc.
  - For directories of chefs see TX650
- 907 General works
- By region or country



- Hospitality industry. Hotels, clubs, restaurants, etc. Food service  
 Directories  
 By region or country -- Continued  
 United States  
 907.2 General works  
 907.3.A-Z By region or state, A-Z  
 Subarrange each state by Table T4a  
 907.5.A-Z Other regions or countries, A-Z  
 Subarrange each country by Table T4a
- History  
 908 General works  
 Special countries  
 United States  
 909.A1 Periodicals, societies, etc.  
 909.A2-Z General works  
 909.2.A-Z By region or state, A-Z  
 Subarrange each state by Table T4a  
 Other countries  
 910.A1 Europe  
 910.A2-Z By region or country, A-Z  
 Special hotels see TX941.A+  
 Special restaurants see TX945.5.A+  
 Special taverns, barrooms, etc. see TX950+
- Biography  
 910.3 Collective  
 910.5.A-Z Individual, A-Z  
 911 General works  
 911.2 General special  
 911.3.A-Z Special topics, A-Z  
 Accounting see HF5686.H75  
 Appraisal see TX911.3.V34  
 Bookkeeping see HF5686.H75  
 911.3.C3 Cashiering  
 911.3.C6 Commercial correspondence  
 Concierge services see TX911.3.C63  
 911.3.C63 Concierges and concierge service  
 911.3.C65 Cost control  
 911.3.C8 Customer relations  
 911.3.E4 Electronic data processing  
 911.3.E45 Energy consumption  
 Equipment and supplies see TX912  
 911.3.E84 Ethics  
 911.3.F5 Finance  
 Fires and fire prevention in hotels see TH9445.H75  
 Fires and fire prevention in restaurants see TH9445.R44  
 Food and wine pairings see TX911.3.M45  
 Food service see TX943+  
 911.3.F75 Front desk  
 Housekeeping see TX928  
 911.3.I5 Inventory control  
 911.3.J65 Job descriptions  
 911.3.L27 Labor productivity  
 911.3.L3 Labor turnover  
 911.3.L62 Location  
 Maintenance and repair see TX928  
 911.3.M27 Management

- Hospitality industry. Hotels, clubs, restaurants, etc. Food service  
 Special topics, A-Z -- Continued
- 911.3.M3 Marketing  
 911.3.M33 Mathematics  
 911.3.M45 Menus. Wine lists  
     Including food and wine pairing
- 911.3.P4 Personnel management  
 911.3.P46 Planning  
 911.3.P7 Prices  
 911.3.P77 Public relations  
 911.3.P8 Purchasing  
 911.3.Q34 Quality control  
 911.3.R3 Rates  
 911.3.R47 Reservations  
 911.3.R48 Restrooms  
 911.3.R57 Risk management  
 Room service see TX943+
- 911.3.S24 Safety measures  
 911.3.S3 Sanitation  
 911.3.S4 Security  
 Site selection see TX911.3.L62
- 911.3.S73 Statistical methods  
 911.3.S8 Stockroom keeping  
 911.3.T32 Table setting and decoration  
 911.3.T73 Training  
 911.3.V34 Valuation and appraisal  
 911.3.V62 Vocational guidance  
     Cf. TX652.4 Vocational guidance for cooking in general  
     Wine lists see TX911.3.M45
- 911.5 Study and teaching  
 912 Furnishings, equipment, etc.  
 (913-917) Law and legislation. Inspectors' reports  
     see class K
- 921 Stewards' manuals. Caterers' manuals. Kitchen control  
 925 Dining room service. Table service. Wine service  
     Including manuals for waiters, waitresses, bussing attendants, etc.
- 926 Bellmen, doormen, elevator operators  
 927 Butlers  
 928 Housekeeping, maintenance, repair  
 930 Social executives, hostesses, etc.  
 (931) General special  
     see TX911.2
- 941.A-Z Special hotels and hotel chains. By name, A-Z  
 Food service  
     Including room service  
     For food service in the transportation industry see TA1227  
     For special topics see TX911.3.A+
- 943 General works  
 Restaurants, cafeterias, tearooms, etc.  
     For directories and guidebooks see TX907+  
     Cf. HE7581.5 Cybercafes  
     Cf. TP635 Soda fountains
- 945 General works  
 945.2 School lunchrooms, cafeterias, etc.  
 945.3 Fast food restaurants

- Hospitality industry. Hotels, clubs, restaurants, etc. Food service
  - Food service
    - Restaurants, cafeterias, tearooms, etc. -- Continued
      - 945.4 Ethnic restaurants
        - Including individual types, e.g. Chinese restaurants
      - 945.5.A-Z Special restaurants. By name, A-Z
      - 946 Mass feeding, communal kitchens, canteens, etc.
        - Industrial feeding. Factory canteens
      - 946.5.A1 Periodicals. Collections. Congresses
      - 946.5.A3-Z General works
    - Taverns, barrooms, saloons
      - 950 Periodicals, societies, etc.
        - Biography of bartenders, saloonkeepers, etc.
          - 950.5.A1 Collective
          - 950.5.A2-Z Individual, A-Z
      - 950.53 Directories
      - History
        - 950.54 General works
          - By region or country
            - United States
              - 950.56 General works
              - 950.57.A-Z By region or state, A-Z
              - 950.59.A-Z Other regions or countries, A-Z
        - General works
        - 950.7 Bartenders' manuals and recipes
          - Cf. TX815+ Non-alcoholic beverages
      - Furnishings, equipment, etc. Housekeeping
        - 952 General works
        - 953 Bars and bar supplies
      - Building operation and housekeeping
        - 955 General works
          - Apartment houses
            - 957 General works
            - 958 Janitor service
              - Cf. TX339 Household janitor service
          - 959 Other services
            - Including elevator service
      - 960 Housing developments
      - 980 Office buildings
      - 985 Public buildings
      - Mobile home living
        - Cf. GV198.5+ Mobile home living
      - 1100 Periodicals, societies, etc.
      - 1105 General works
      - 1106 Juvenile works
        - By region or country
          - United States
            - 1107 General works
              - 1107.2.A-Z By region or state, A-Z
              - 1107.4.A-Z Other regions or countries, A-Z
      - 1110 Recreational vehicle living

## History

- 15 General works
- 16 Ancient
- 17 Medieval
- 18 Modern
- 19 19th century
- 20 20th century

## Special countries

Numbers that have been provided for "Cities or other special, A-Z," "Local or special, A-Z," or "Provinces or other special, A-Z" may be used for local subdivision, or for special entities such as canals, rivers, harbors, railroads, bridges, etc., as appropriate

## America

- 21 General works
- North America
- 22 General works
- United States
- 23 General works
- 23.1 Eastern states. Atlantic coast
- 23.15 New England
- 23.2 Appalachian region
- 23.3 Great Lakes region
- 23.4 Midwest. Mississippi Valley
- 23.5 South. Gulf states
- 23.6 West
- 23.7 Northwest
- 23.8 Pacific coast
- 23.9 Southwest
- 24.A-.W States, A-W
  - e.g.
  - 24.A4 Alaska
  - 24.H3 Hawaii
- 25.A-Z Cities or other special, A-Z
- Canada
- 26 General works
- 27.A-Z Provinces or other special, A-Z
- 27.5 Latin America
- Mexico
- 28 General works
- 29.A-Z Local or special, A-Z
- Central America
- 30 General works
- 31.A-Z Special countries, A-Z
- 31.5 Caribbean Area
- West Indies
- 32 General works
- 33.A-Z Special islands, A-Z
- South America
- 34 General works
- Argentina
- 36 General works
- 37.A-Z Local or special, A-Z
- Bolivia
- 38 General works
- 39.A-Z Local or special, A-Z
- Brazil
- 41 General works

- Special countries
- America
    - South America
      - Brazil -- Continued
        - 42.A-Z Local or special, A-Z
      - Chile
        - 43 General works
        - 44.A-Z Local or special, A-Z
      - Colombia
        - 45 General works
        - 46.A-Z Local or special, A-Z
      - Ecuador
        - 47
      - Guyana
        - 48
      - Suriname
        - 49
      - French Guiana
        - 50
      - Paraguay
        - 51
      - Peru
        - 52
      - Uruguay
        - 53
      - Venezuela
        - 54
    - Europe
      - 55 General works
      - Great Britain. England
        - 57 General works
        - 58.A-Z English counties or regions, A-Z
      - Ireland
        - 59 General works
        - 59.2 Irish Free State. Ireland (Eire)
        - 59.3 Northern Ireland
        - 60.A-Z Special counties, A-Z
      - Scotland
        - 61 General works
        - 62.A-Z Special counties, A-Z
      - Wales
        - 63
        - 64.A-Z Cities or other special, A-Z
    - Austria
      - 65 General works
      - 65.2.A-Z Local or special, A-Z
    - Czechoslovakia
      - 65.3 General works
      - 65.4.A-Z Local or special, A-Z
    - Hungary
      - 65.5 General works
      - 65.9.A-Z Special counties, A-Z
      - 66.A-Z Cities or other special, A-Z
    - Belgium
      - 67 General works
      - 68.A-Z Local or special, A-Z
    - Denmark
      - 69 General works
      - 70.A-Z Local or special, A-Z
    - France
      - 71 General works
      - 72.A-Z Local or special, A-Z
      - 72.5 Colonies (Collectively)
    - Germany
      - 73 General works

## Special countries

## Europe

## Germany -- Continued

- 73.1 East Germany. Eastern Germany
- 73.2 Baden-Württemberg
- 73.3 Bavaria
- 73.4 Hesse
- 73.5 Prussia
- 73.6 Saxony
- 73.7 North Rhine-Westphalia
- 73.9.A-Z Other states, A-Z
- 74.A-Z Cities or other special, A-Z
- 74.5 Colonies (Collectively)

## Greece

- 75 General works
- 76.A-Z Local or special, A-Z

## Netherlands

- 77 General works
- 78.A-Z Local or special, A-Z

## Italy

- 79 General works
- 80.A-Z Local or special, A-Z

## Malta

## Norway

- 81 General works
- 82.A-Z Local or special, A-Z

## Portugal, Azores, etc.

- 83 General works
- 84.A-Z Local or special, A-Z
- 84.5 Colonies (Collectively)

## Russia in Europe

- 85 General works
- 86.A-Z Local or special, A-Z

## Slovakia

- 86.6 General works
- 86.7.A-Z Local or special, A-Z

## Spain

- 87 General works
- 88.A-Z Local or special, A-Z

## 88.5 Scandinavia

## Sweden

- 89 General works
- 90.A-Z Local or special, A-Z

## Switzerland

- 91 General works
- 92.A-Z Local or special, A-Z

## 95.A-Z Other regions and countries, A-Z

- 95.A2 Balkan Peninsula
- 95.A38 Albania
- 95.A44 Alps
- 95.A48 Andorra
- 95.B3 Baltic Sea
- 95.B43 Belarus
- 95.B45 Benelux countries
- 95.B9 Bulgaria
- 95.C37 Carpathian Mountains

## Special countries

## Europe

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

95.D35 Danube River  
 95.F5 Finland  
 95.I43 Iceland  
 95.L285 Lapland  
 95.L37 Latvia  
 95.L78 Lithuania  
 95.L9 Luxemburg  
 95.M4 Mediterranean Region  
 95.N67 North Sea  
 95.P7 Poland  
 95.P75 Pomerania (Poland and Germany)  
 95.R48 Rhine River  
 95.R6 Romania  
 95.S55 Slovenia  
 95.T48 Thrace  
 95.U95 Ukraine  
 95.Y8 Yugoslavia

## Asia

99 General works  
 China  
     For Hong Kong see T1 113.H85  
     For Macau see T1 113.M2  
 101 General works  
 102.A-Z Local or special, A-Z  
 Taiwan  
 102.5 General works  
 102.6.A-Z Local or special, A-Z  
 South Asia  
 102.9 General works  
 India  
 103 General works  
 104.A-Z Local or special, A-Z  
 Pakistan  
 104.5 General works  
 104.6.A-Z Local or special, A-Z  
 Bangladesh  
 104.65 General works  
 104.66.A-Z Local or special, A-Z  
 Sri Lanka. Ceylon  
 104.7 General works  
 104.8.A-Z Local or special, A-Z  
 Japan  
 105 General works  
 106.A-Z Local or special, A-Z  
 Korea  
     Including South Korea  
 106.5 General works  
 106.6.A-Z Local or special, A-Z  
 North Korea  
 106.7 General works  
 106.8.A-Z Local or special, A-Z  
 Iran. Persia  
 107 General works

## Special countries

## Asia

- 108.A-Z Iran. Persia -- Continued
  - Local or special, A-Z
- 109 Russia in Asia. Siberia
  - General works
- 110.A-Z Local or special, A-Z
- 111 Turkey. Asia Minor
  - General works
- 112.A-Z Local or special, A-Z
- 113.A-Z Other divisions of Asia, A-Z
  - 113.A3 Afghanistan
  - 113.B47 Bhutan
  - 113.B54 Borneo
  - 113.B7 Brunei
  - 113.B8 Burma. Myanmar
  - 113.C16 Cambodia
  - 113.C35 Central Asia
  - 113.C9 Cyprus
  - 113.G39 Gaza Strip
  - 113.H54 Himalaya Mountains
  - 113.H85 Hong Kong
  - 113.I55 Indonesia
  - 113.I7 Iraq
  - 113.I75 Israel
  - 113.J6 Jordan
  - 113.K38 Kazakhstan
  - 113.K85 Kuwait
  - 113.L28 Laos
  - 113.L4 Lebanon
  - 113.M2 Macau
  - 113.M318 Malaya
  - 113.M32 Malaysia
  - 113.M45 Mekong River Valley
  - Myanmar see T1 113.B8
  - 113.N4 Nepal
  - 113.O5 Oman
  - 113.P6 Philippines
  - 113.Q36 Qatar
  - 113.S33 Saudi Arabia
  - 113.S53 Singapore
  - 113.S6 Southeast Asia
  - 113.S94 Syria
  - 113.T48 Thailand
  - 113.U54 United Arab Emirates
  - 113.V5 Vietnam
  - 113.W48 West Bank
  - 113.Y45 Yemen
- 113.5 Middle East. Near East
- 114 Arab countries
- 114.5 Islamic countries
- Africa
  - 115 General works
  - Egypt
    - 117 General works
  - 118.A-Z Local or special, A-Z



## Special countries

## Africa -- Continued

119.A-Z	Other divisions of Africa, A-Z
119.A4	Algeria
119.A5	Angola
119.B57	Botswana
	Burkina Faso see T1 119.U66
119.B85	Burundi
119.C17	Cameroon
119.C42	Central Africa
119.C43	Central African Republic
119.C75	Congo (Brazzaville)
	Congo (Democratic Republic) see T1 119.Z3
	Côte d'Ivoire see T1 119.I9
119.D3	Dahomey
119.D55	Djibouti
119.E18	East Africa
119.E19	Eastern Africa
119.E8	Ethiopia
119.F82	French-speaking Equatorial Africa
119.F83	French-speaking West Africa
119.G23	Gabon
119.G45	Ghana
119.G92	Guinea
119.G94	Guinea-Bissau
119.I9	Ivory Coast. Côte d'Ivoire
119.K4	Kenya
119.L45	Lesotho
119.L49	Liberia
119.L74	Libya
119.M28	Madagascar
119.M3	Malawi
119.M34	Mali
119.M39	Mauritania
119.M6	Morocco
119.M85	Mozambique
	Namibia see T1 119.S68
119.N53	Niger
119.N54	Nigeria
119.N6	Nile River Valley
119.R45	Rhodesia, Southern. Zimbabwe
119.R9	Rwanda
119.S18	Sahel
119.S38	Senegal
119.S5	Sierra Leone
119.S59	Somalia
119.S6	South Africa
119.S64	Southern Africa
119.S68	Southwest Africa. Namibia
119.S73	Sub-Saharan Africa
119.S74	Sudan
119.S87	Swaziland
119.T35	Tanzania
119.T64	Togo
119.T8	Tunisia
119.U4	Uganda

## Special countries

## Africa

## Other divisions of Africa, A-Z -- Continued

- 119.U66 Upper Volta
- 119.W48 West Africa
- 119.Z3 Zaire. Congo (Democratic Republic)
- 119.Z34 Zambia
- Zimbabwe see T1 119.R45

## Indian Ocean islands

- 120 General works
- 120.5.A-Z Special islands, A-Z
- 120.5.M38 Mauritius
- 120.5.M39 Mayotte
- 120.5.R48 Réunion

## Australasia

- 120.7 General works
- Australia
  - 121 General works
  - 122.A-Z Local or special, A-Z
- New Zealand
  - 122.5 General works
  - 122.6.A-Z Local or special, A-Z
- 122.7 Papua New Guinea

## Pacific Islands

- 123 General works
- 124.A-Z By island, A-Z

## Arctic regions

- 125 General works
- 125.5 Greenland
- 126 Antarctica
- 126.5 Tropics
- 127 Developing countries

Numbers that have been provided for "Cities or other special, A-Z," "Local or special, A-Z," or "Provinces or other special, A-Z" may be used for local subdivision, or for special entities such as canals, rivers, harbors, railroads, bridges, etc., as appropriate

## America

- 21 General works
- North America
- 22 General works
- United States
- 23 General works
- 23.1 Eastern states. Atlantic coast
- 23.15 New England
- 23.2 Appalachian region
- 23.3 Great Lakes region
- 23.4 Midwest. Mississippi Valley
- 23.5 South. Gulf states
- 23.6 West
- 23.7 Northwest
- 23.8 Pacific coast
- 23.9 Southwest
- 24.A-.W States, A-W
  - e.g.
  - 24.A4 Alaska
  - 24.H3 Hawaii
- 25.A-Z Cities or other special, A-Z
- Canada
- 26 General works
- 27.A-Z Provinces or other special, A-Z
- 27.5 Latin America
- Mexico
- 28 General works
- 29.A-Z Local or special, A-Z
- Central America
- 30 General works
- 31.A-Z Special countries, A-Z
- West Indies
- 32 General works
- 33.A-Z Special islands, A-Z
- South America
- 34 General works
- Argentina
- 36 General works
- 37.A-Z Local or special, A-Z
- Bolivia
- 38 General works
- 39.A-Z Local or special, A-Z
- Brazil
- 41 General works
- 42.A-Z Local or special, A-Z
- Chile
- 43 General works
- 44.A-Z Local or special, A-Z
- Colombia
- 45 General works
- 46.A-Z Local or special, A-Z
- 47 Ecuador
- 48 Guyana

## America

## South America -- Continued

49 Suriname

50 French Guiana

51 Paraguay

52 Peru

53 Uruguay

54 Venezuela

## Europe

55 General works

## Great Britain. England

57 General works

58.A-Z English counties or regions, A-Z

## Ireland

59 General works

59.2 Irish Free State. Ireland (Eire)

59.3 Northern Ireland

60.A-Z Special counties, A-Z

## Scotland

61 General works

62.A-Z Special counties, A-Z

63 Wales

64.A-Z Cities or other special, A-Z

## Austria

65 General works

65.2.A-Z Local or special, A-Z

## Czechoslovakia. Czech Republic

65.3 General works

65.4.A-Z Local or special, A-Z

## Hungary

65.5 General works

65.9.A-Z Special counties, A-Z

66.A-Z Cities or other special, A-Z

## Belgium

67 General works

68.A-Z Local or special, A-Z

## Denmark

69 General works

70.A-Z Local or special, A-Z

## France

71 General works

72.A-Z Local or special, A-Z

72.5 Colonies (Collectively)

## Germany

73 General works

73.1 East Germany. Eastern Germany

73.2 Baden-Württemberg

73.3 Bavaria

73.4 Hesse

73.5 Prussia

73.6 Saxony

73.7 North Rhine-Westphalia

73.9.A-Z Other states, A-Z

74.A-Z Cities or other special, A-Z

74.5 Colonies (Collectively)

## Greece

## Europe

## Greece -- Continued

75 General works  
76.A-Z Local or special, A-Z

## Netherlands

77 General works  
78.A-Z Local or special, A-Z

## Italy

79 General works  
80.A-Z Local or special, A-Z

80.5

## Malta

## Norway

81 General works  
82.A-Z Local or special, A-Z

## Portugal, Azores, etc.

83 General works  
84.A-Z Local or special, A-Z

84.5

## Colonies (Collectively)

## Russia in Europe

85 General works  
86.A-Z Local or special, A-Z

## Slovakia

86.6 General  
86.7.A-Z Local or special, A-Z

## Spain

87 General works  
88.A-Z Local or special, A-Z

88.5

## Scandinavia

## Sweden

89 General works  
90.A-Z Local or special, A-Z

## Switzerland

91 General works  
92.A-Z Local or special, A-Z

95.A-Z

## Other regions and countries, A-Z

95.A38 Albania  
95.A44 Alps  
95.A48 Andorra  
95.B28 Balkan Peninsula  
95.B3 Baltic Sea  
95.B36 Banat  
95.B43 Belarus  
95.B45 Benelux countries  
95.B9 Bulgaria  
95.C37 Carpathian Mountains  
95.D35 Danube River  
95.E88 Estonia  
95.F5 Finland  
95.I43 Iceland  
95.L285 Lapland  
95.L37 Latvia  
95.L78 Lithuania  
95.L9 Luxemburg  
95.M4 Mediterranean Region  
95.M66 Montenegro  
95.N67 North Sea

## Europe

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

95.P7 Poland  
 95.P75 Pomerania (Poland and Germany)  
 95.R48 Rhine River  
 95.R6 Romania  
 95.S47 Serbia  
 95.S57 Slovenia  
 95.T38 Tatra Mountains (Slovakia and Poland)  
 95.T48 Thrace  
 95.U95 Ukraine  
 95.Y8 Yugoslavia

## Asia

99 General works  
 China  
     For Hong Kong see T1a 113.H85  
     For Macau see T1a 113.M2  
 101 General works  
 102.A-Z Local or special, A-Z  
 Taiwan  
 102.5 General works  
 102.6.A-Z Local or special, A-Z  
 South Asia  
 102.9 General works  
 India  
 103 General works  
 104.A-Z Local or special, A-Z  
 Pakistan  
 104.5 General works  
 104.6.A-Z Local or special, A-Z  
 Bangladesh  
 104.65 General works  
 104.66.A-Z Local or special, A-Z  
 Sri Lanka. Ceylon  
 104.7 General works  
 104.8.A-Z Local or special, A-Z  
 Japan  
 105 General works  
 106.A-Z Local or special, A-Z  
 Korea  
     Including South Korea  
 106.5 General works  
 106.6.A-Z Local or special, A-Z  
 North Korea  
 106.7 General works  
 106.8.A-Z Local or special, A-Z  
 Iran. Persia  
 107 General works  
 108.A-Z Local or special, A-Z  
 Russia in Asia. Siberia  
 109 General works  
 110.A-Z Local or special, A-Z  
 Turkey. Asia Minor  
 111 General works  
 112.A-Z Local or special, A-Z  
 113.A-Z Other divisions of Asia, A-Z

## Asia

## Other divisions of Asia -- Continued

113.A3	Afghanistan
113.A98	Azerbaijan
113.B54	Borneo
113.B7	Brunei
113.B8	Burma. Myanmar
113.C16	Cambodia
113.C9	Cyprus
113.G39	Gaza Strip
113.H54	Himalaya Mountains
113.H85	Hong Kong
113.I55	Indonesia
113.I7	Iraq
113.I75	Israel
113.J6	Jordan
113.K85	Kuwait
113.L28	Laos
113.L4	Lebanon
113.M2	Macau
113.M318	Malaya
113.M32	Malaysia
113.M45	Mekong River Valley
	Myanmar see T1a 113.B8
113.N4	Nepal
113.O43	Oman
113.P35	Persian Gulf Region. Persian Gulf States
113.P6	Philippines
113.Q36	Qatar
113.S33	Saudi Arabia
113.S53	Singapore
113.S6	Southeast Asia
113.S94	Syria
113.T35	Tajikistan
113.T48	Thailand
113.U54	United Arab Emirates
113.V5	Vietnam
113.W48	West Bank
113.Y45	Yemen (People's Democratic Republic)
113.5	Middle East. Near East
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95.B45	Benelux countries
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- 119.D3 Dahomey
- 119.D55 Djibouti
- 119.E18 East Africa
- 119.E19 Eastern Africa
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- 119.F82 French-speaking Equatorial Africa
- 119.F83 French-speaking West Africa

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119.G45	Ghana
119.G92	Guinea
119.G94	Guinea-Bissau
119.I9	Ivory Coast. Côte d'Ivoire
119.K4	Kenya
119.L45	Lesotho
119.L49	Liberia
119.L74	Libya
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119.M85	Mozambique
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119.N53	Niger
119.N54	Nigeria
119.N6	Nile River Valley
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119.S5	Sierra Leone
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119.S73	Sub-Saharan Africa
119.S74	Sudan
119.S87	Swaziland
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119.T64	Togo
119.T8	Tunisia
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119.U66	Upper Volta
119.W48	West Africa
119.Z3	Zaire. Congo (Democratic Republic)
119.Z34	Zambia
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122.5	General works
122.6.A-Z	Local or special, A-Z
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124.5	Developing countries



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.B1	General works
.B2	General special
.C1	Collections of pictures, views, etc.
	Official publications
	Acts of incorporation, rules, organization, etc.
.D1	General works
.D13	Translations of acts
	Rules, regulations, etc.
.D15	General works
.D17	Translations of rules, regulations, etc.
.D2	General reports, proceedings, etc., of governing board
.D25	Reports of national (government) commission
.D3	General reports of special boards, commissions, etc.
.D4	Congressional hearings and reports of national government on appropriations, etc. By date
.D5	Special reports. By date
	General catalogs
.D6	Official. By date
.D7	Nonofficial
	Subarranged by author
.D8	Reports and awards of jurors
.D9	Miscellaneous printed matter
.E1	Official comprehensive reports on the exhibits by editorial commissions, etc. By date
.E1A-.E1Z	General official reports of other countries on exhibitions
	For their own exhibits see T2 .G1
	Exhibits of the country in which the exhibition is held
.F1	Collective
	Class here general only; special with subject
.F2	Government exhibit
.F3	State exhibits, etc.
.G1	Exhibits of other countries
	Cf. T2 .E1A+ General official reports on exhibitions
.H1	Parts of the exposition
	Works on various exhibits which cannot well be classified with any one subject, e. g. a work on an educational exhibit goes in class L, Education, subdivision Exhibits, but a work on Machinery hall is classed here
.K1	Exhibits arranged by names of exhibitors
	Works on various exhibits which cannot well be classified with any one subject, e. g. a work on an educational exhibit goes in class L, Education, subdivision Exhibits, but a work on Machinery hall is classed here
.L1	Miscellaneous
	Other than .A1-.K1
.N1	Congresses. General reports

	General works, histories, etc.
.xA2-.xA5	Official works
.xA6-.xZ	By author, A-Z
.x1	Regular reports of the fire department or fire commissioner, chief engineer, superintendent, fire marshall, etc.
.x2	Special bureau reports. Fire patrol bureau reports
.x3	Special reports and petitions. By date
.x4	Reports of commissions, committees, investigations. By date
	Laws, ordinances, regulations
	see KFA+
.x6	Manuals and lists of alarm stations or boxes
.x65	Examinations. Admission to fire service (Civil service, etc.)
.x68	Pensions, relief, etc.
	Fire companies. Conventions, etc.
.x7	General works
.x71	Paid companies. History, etc.
.x74	Volunteer companies. Constitution, by-laws, history, etc.
.x77	Veteran associations
.x8	Local fire equipment. Engines, enginehouses, etc.
.x9	Various unofficial publications

	General works, histories, etc.
.xA2-.xA5	Official works
.xA6-.xZ	By author, A-Z
.x01	Regular reports of the fire department or fire commissioner, chief engineer, superintendent, fire marshall, etc.
.x02	Special bureau reports. Fire patrol bureau reports
.x03	Special reports and petitions. By date
.x04	Reports of commissions, committees, investigations. By date Laws, ordinances, regulations see KFX
.x06	Manuals and lists of alarm stations or boxes
.x065	Examinations. Admission to fire service (Civil service, etc.)
.x068	Pensions, relief, etc. Fire companies. Conventions, etc.
.x07	General works
.x071	Paid companies. History, etc.
.x074	Volunteer companies. Constitution, by-laws, history, etc.
.x077	Veteran associations
.x08	Local fire equipment. Engines, enginehouses, etc.
.x09	Various unofficial publications

.A1	General works
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	.x2A-.x2Z <i>Special divisions, A-Z</i>
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T4a

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.A2	Periodicals
.B2	Specifications
.C2	Lists other than regular periodicals
.D7	Indexes to patents
.F4	Classification
.H3	Annual reports (Patent Office)
.J4	Special reports (Patent Office)
.P2	General works (Patent Office)
.U3	Designs and models
.V1	Periodicals (Trademarks)
.V2	General works (Trademarks)
.V3	Registers. Lists (Trademarks) Including lists of trademarks for special products and industries

A2	Periodicals
B2	Specifications
C2	Lists other than regular periodicals
D7	Indexes to patents
F4	Classification
H3	Annual reports (Patent Office)
J4	Special reports (Patent Office)
P2	General works (Patent Office)
U3	Designs and models
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   Computer animation: TR897.72.A14  
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