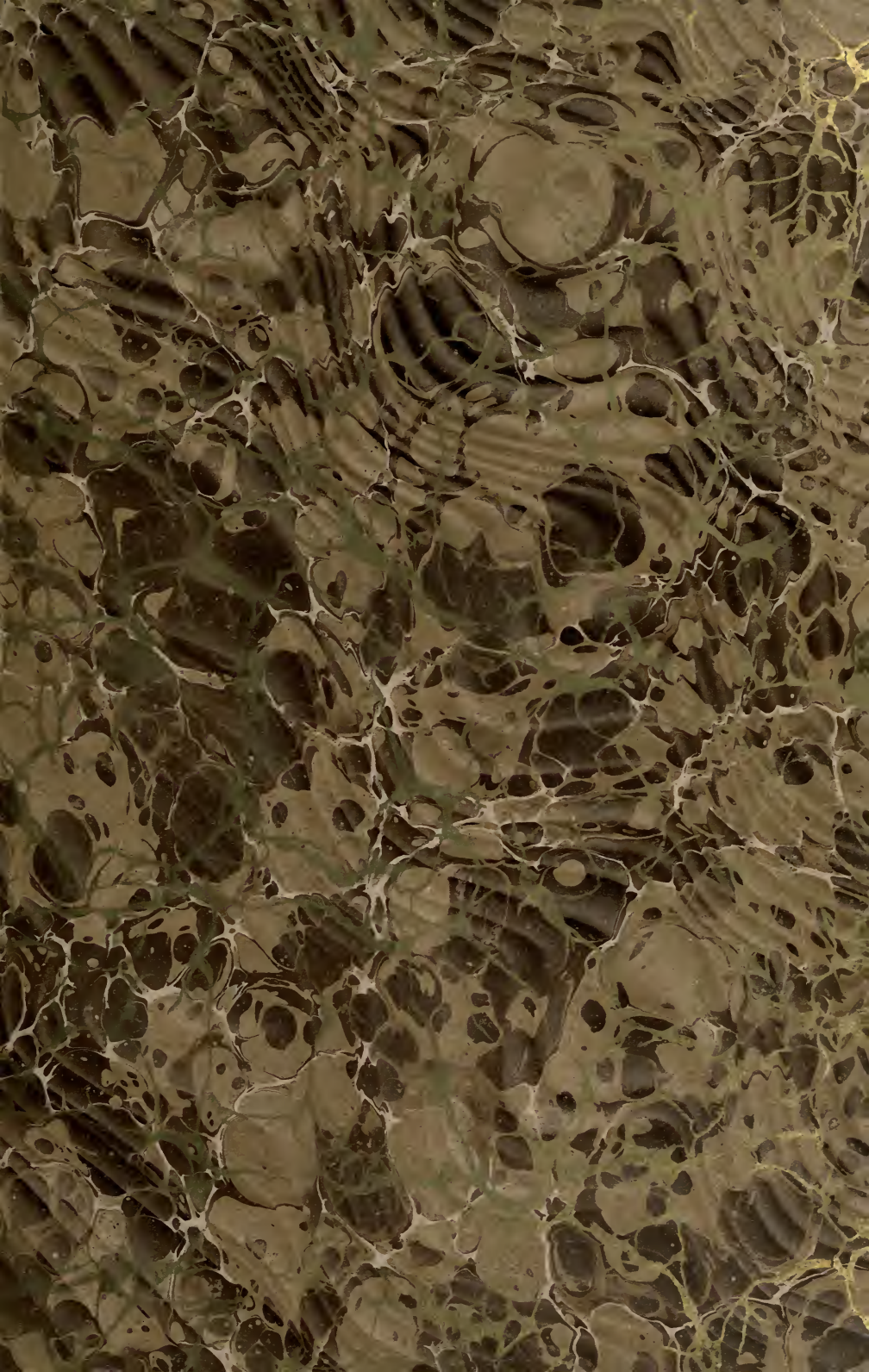


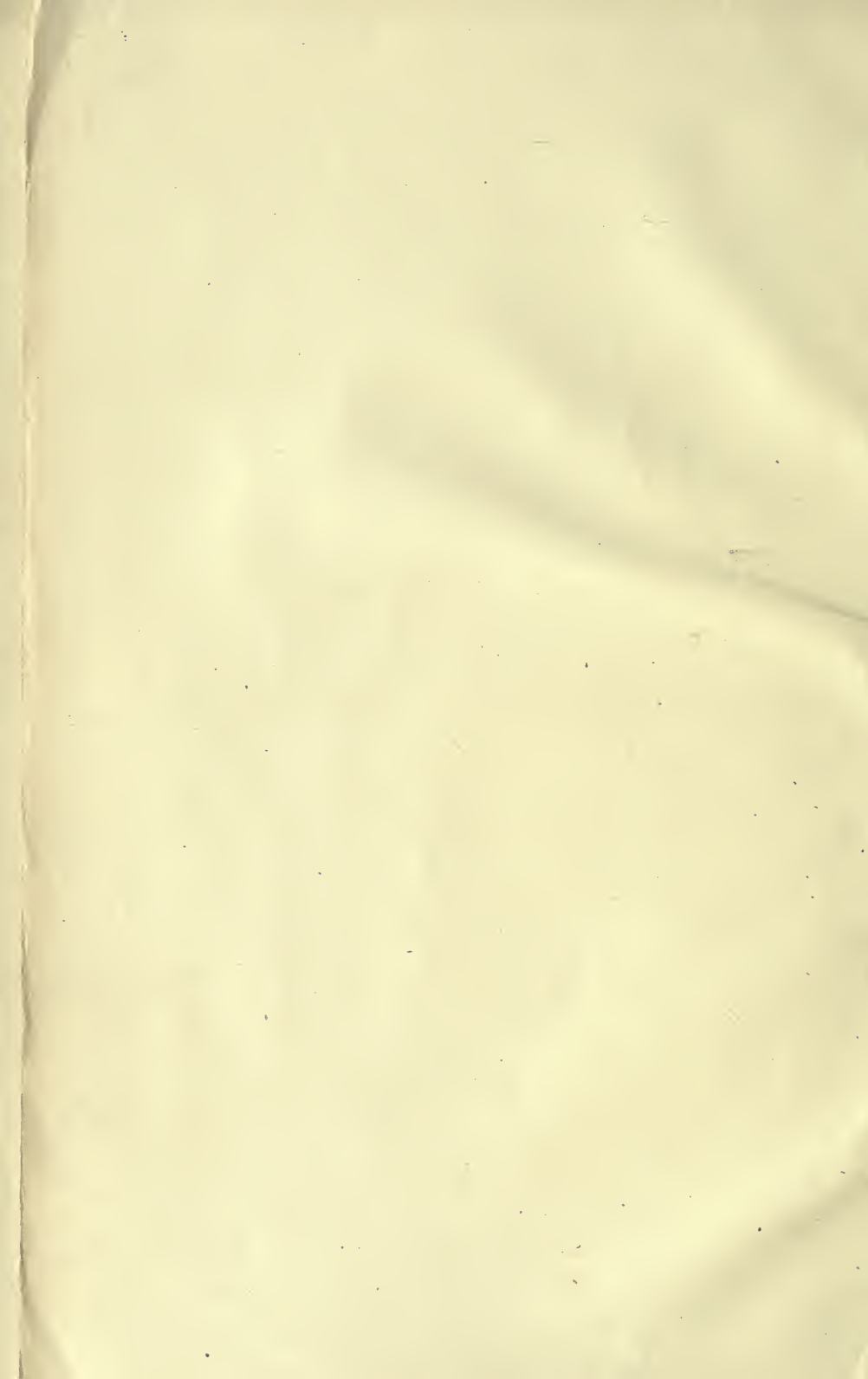
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To learn to classify is in itself an education

*Alex. Bain*

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# Decimal Classification

and

## Relativ Index

for libraries, clippings, notes, etc.

Edition 8

By

Melvil Dewey MA LL D

Forest Press

Lake Placid Club N Y

1913



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1913

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## Spelling

The simplified spellings used are strongly recommended for general adoption by both the American and English Philological Associations, including nearly all the prominent scholars in English now living. The publishers regret the prejudice that certain readers will feel against these changes, but after careful study of all objections urged against them, they find the weight of scholarship and reason wholly in their favor, and feel compelled to bear a share of the prejudice which some must endure before the great benefits of a rational orthography can be secured.

Full information on request from Simplified Spelling Board, 1 Madison av. New York.



Simpler spelling used

## Decimal Classification

Corrections and additions in Editions 10 and 11

### To owners of Decimal Classification

Supplementing similar lists for Editions 2-9, sent to recorded owners of Editions 1-8, the following lists include corrections and additions in Editions 10-11

The only way to make these corrections of *any value* is to clip them and insert them in their respective places in your copy of the Classification, or, when changes are slight, make them with pen. Index corrections, being in all cases short, are best made with pen, and are therefore printed on both sides of the page; *when printed on back of corrections for tables* (see p. 13-14 and 29-30) *the index corrections should be made before the corrections for tables*, to allow for clipping the latter without losing the former

Please send, for benefit of others, any further corrections and additions which you note as desirable, address

Dorcas Fellows

Editor, Decimal Classification

State Library, Albany, N Y

Edition 11, revised and enlarged, was issued in Nov. 1922; cloth \$8, Chivers duoflexil half niger \$9. Copies with tabs for either tables or index may be had for 50 cents extra; for both tables and index, \$1 extra

## Edition 10: tables

## Corrections, additions and notes, in numeric order of tables

Words in italics are explanatory or quoted from tables to show connection only. Heds and notes without any italics are to be inserted in their numeric place, preferably by clipping, then mounting on margin and drawing tracer to proper point of insertion. In your copy find each of the numbers below and correct the hed belonging to it to agree with this list; e.g. in the hedging for 022.69 change Residence rooms to Residence quarters; insert as new hedging, 027.42 Special kinds of public libraries, with its note; on 027.7 add university to hedging, also add note. If in doubt ask editor for fuller explanation

- 021.65  
   *At end of note ad* Book wagon
- .74  
   *Note* Discussion of use of *newspaper* columns (*editorials, articles, letters, new book lists, etc.*) to secure interest
- 022.68 Other *rooms Lavatories, etc.*  
   For health, comfort or convenience
- .69 *Residence* quarters  
 .918 Counters  
 .935 Magazine and *newspaper racks, files, etc.*
- 025.125  
   *At end of note ad* ; for newspaper publication of new book lists, see 021.74
- .17  
   *Note* For general discussions of arrangement, care and use.
- .171 *Manuscripts, archives and rarities*
- 027.42 Special kinds of public libraries  
   General discussions of county or rural libraries, etc.
- .7 *College, university*  
   For libraries of professional and technical schools see 026
- 091  
   *Note* After *Photographs of mss ad* , when more valuable for subject matter,
- 137 Personality  
   *Temperaments, idiosyncrasy*
- 174.4 *Merchants Business men* Business virtues and vices  
 .5 *Speculation Mammonism Avaris*  
 .6 *Gambling Lotteries*  
   *See also 175 below*
- .7 Honor, honesty Dishonesty  
   *Compact, promis; chicanery, trickery*
- 177.5  
   *Note* After *Brahmanism ad* , and 323.31 Nobility, wealthy clas
- 178.6 Inebriates  
   *Discussion, reformation.* For reformatories and inebriate asylums see 362.8
- 179.2 Cruelty  
   *Note* *Omit* Including and *supply* Societies for preventing cruelty to children and also
- 230  
   *Note* *Ad*  
   Clas here polemics either offensiv or defensiv, when distinctly doctrinal; but clas in 280 history of a sect, even if larly controversial and of a limited period. Clas controversy about a special doctrin with its subject; e.g. controversy on the atonement 232.3
- 252  
   *Note* When too varied for any of the subheds .1-9, may be *divided with .0 by churches and sects, like 280*; e.g. protestant episcopal sermons 252.03, but a collection of bishop's addresses 252.1.

266

*Note* See also 269 Parish missions; 377.6 *Missionary schools*  
*Missions in special countries or places* covering the work of several sects go under the *geographically divided Religious history* 274-279. The mission of a single sect in a special country or place goes with the history of the sect in 282-289

- 271.1 *Benedictines founded A.D. 529*  
 .12 Cistercians " " 1098 (*See* 271.72 *ed. 9*)  
 .125 Trappists " " 1150 (*See* 271.74 *ed. 9*)  
 .36 Capuchins " " 1525 (*See* 271.74 *ed. 9*)  
 .72 *Transferd to .12 above*  
 .74 " " .125 & .36 above
- 286 *Baptist Immersionist*  
 .1 *Calvinistic or Regular*  
 Including Arminian or general baptists, reunited with Calvinistic in 1891  
 .4 Old school (Primitiv, Antimission or Hardshel)  
 .5 Other baptist sects  
 May be clast if preferd with any of the larjer sects which they most closely resemble or of which they ar offshoots  
 .6 Disciples (Campbellite or Christian)  
 .7 Adventists  
 .9 Other immersionists
- 287.7 *Methodist protestant*
- 289 *Other Christian sects*  
 .2 *Transferd to 286.6*  
 .3 " " 286.7  
 .5 Christian science (*Catholic apostolic transferd to .9*)  
 .9 Minor Christian sects
- 320.8 *Polygrafy*
- 328.22  
*Note* Uniformity of law on same subject in different states or cuntries
- 332 *Private finance*  
 .3 *Loan institules and special loans*  
 .4 *Money Coins and coinage*
- 333.5  
*Note* Clas here general works on rent  
 .7 *Special classes of land: forests, pasture, waste*  
 .9 *Water rights: litoral, riparian, irrigation*
- 336 *Public finance*  
 Federal and state. For local finances see 352.1  
 .14  
*Note* *Chanje* 379.12 to 379.123
- .23 *Personal property*  
 .27 *Excise, licenses, special taxes*  
 Liquor, dog, legacies, stamp duties  
 For other relations see License in Relativ index following tables
- 339  
*Note* Conservation; restrictions on use or waste of materials, including general works covering natural resources. See also Pauper, Pauperism, Welth, in Relativ index following tables
- 342.3 *Systems, commentaries*
- 355.2 *Military resources*  
 .21 *Preparedness*  
 Rediness of resources for mobilization  
 .22 *Men Recruitment*  
*Note like note to .2 in ed. 9*  
 .23



- 355.24 Raw material  
Agricultural, mineral, etc.
- .25
- .26 Manufactures, industries
- .27 Transportation  
Roads, railroads, canals, ships
- 362.6 Aged Infirm Bereft  
Mothers pensions Aid in cases of death
- .7  
*Note* Child welfare
- 369.186 Societies arising from Great war of 1914-19
- 371.3 *Methods of instruction* and study
- .33 *Lectures* Oral and visual instruction
- .335 Visual instruction Lantern slides
- .38 *Laboratory method*
- .916 Crippled
- 374  
*Note* Omit Choice of vocation... for life
- .1  
*Note 2* Chanje 374.1 to 374.19  
" 374.1942 to 374.19942  
" 374.102 to 374.1902  
*Note 4* Vocational guidance Choice of vocation is clast here becauz usually discust with self education and closely related to it and preparation for lite, and is also often determind thru personal advice or conversation
- .25  
*Note Ad* 371.392, 371.393
- .28 Community centers  
Whole community as a club of varied interests. Put here discussion of use of school bildings for various community purposes
- 378.36 *Student* income and expenses
- .362 Loan funds Student aid societies
- .364 College employment bureaus Faculty committees  
Other organizations for securing work for students
- .365 Student earnings  
Working way thru college Ways of earning
- .368 Student expenses: extravagance, economy
- 380  
*Note* Public utilities. *The technical side of these questions goes mostly in 650 Useful arts. Here belong discussions of social and political relations.*
- .16 Government control of public utilities
- 388 Local transit: city and interurban
- 551  
*Note* Including geophysics (physiografy, physical geografy) and geochemistry broadly treated; see also 551.94. For Cosmic geografy, see 523
- .5 *Meteorology* Climate
- .56 *Omit*
- .94 Geochemistry  
Chemic changes: heat. See also note to 551
- 572.7 Savages: races divided by practises  
Clas description of savages of special cuntry in 914-919; e.g. Australian bushmen 919.4
- 613.94 *Stirpiculture* Eugenics
- 614.142 *Vacant*
- .143 *Vacant*
- .146 Mortality of different occupations  
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- .147 Mortality from special diseases Cauzes of death
- .15 Morbidity
- .16 *Vacant*



- 615.82 *Manipulation* Exercise  
 Massage, osteopathy, curativ gymnastics. *See also* hygiene 613.71 *Gymnastics*
- .84 *Ad* Radiotherapy
- .851  
*Note* Mental condition as affecting disease; occupation as remedy
- 621.3313 *Omit*
- 627  
*Note* *See also* 624.157 and 721.17 Subaqueous foundations
- 628.3 *Sewage* and its *disposal*
- .44 *Domestic ashes, garbage* and refuse
- 630 *Agriculture*  
*The headings given below constitute a 4-figure outline of additions, the detailed development of which, together with that of the 4-figure divisions previously used, covers 48 pages*
- .1 Rural life
- .6 *Societies, clubs, conferences*
- 631 *The farm, farmstead* *Soil*
- .1 Farm economics
- .2 Farm buildings
- .3 Farm machinery
- .4 Land, soil
- .5 Tillage and farm operations
- .6 Reclamation Drainage
- .7 Irrigation, water supply
- .9 Climate, roads, etc.
- 632 *Hindrances: blights, pests, insects*
- .1 Elemental destruction Protection
- .2 Galls Cecidiology
- .3 Bacteria and bacterial diseases
- .4 Fungi
- .5 Parasitic and injurious plants
- .6 Injurious animals
- .7 Injurious insects
- .8 Diseases and injuries
- .9 Means of protection
- 633 *Field crops: grains, grasses, fibers, etc.*
- .2 Forage crops: grasses
- .3 " " legumes, etc.
- .4 Root crops
- .5 Textil fibers, cordage, plaiting, basket, etc.
- .6 Sugar plants and starch
- .7 Alkaloidal plants
- .8 Perfumes, spices, condiments, etc.
- 636.2 *Cattle* Greater ruminants
- .3 *Sheep, goats* Smaller ruminants
- .9 *Camels transferd to* 636.2
- 637.2 Butter
- .3 Cheese
- 655.32 *Press work: making ready* Color printing *Cuts*
- 656

*Note* Running of trains, train and boat timetables, luggage and freight handling, lists of sailings: crews and shifts, disciplin, etc.

For mekanical interrelations of trak and rolling stok see 625.2

For reports, government regulation, rate skedules, etc. see 385 for railroads, 386 for canal and 387 for river and ocean transportation





- 695.1 Wood: *shingle*  
 737 Note Artistic and historic side. See also 332.4 Coins and coinage, as money  
 744 Note Instructions for arkitectural and other mathematical drawing, with demonstrations (if any) subsidiary  
 Textbooks with mathematical demonstrations in scientific order ar better in 515  
 772 Processes  
 Silver: daguerreotype, talbotype  
 Collodion: ambrotype, etc.  
 Dry plate  
 Color fotografy  
 773 Gelatin and pigment: woodburytype  
 Carbon: lambertype, autotype, etc.  
 774 Gelatin and printers ink  
 Albertype, heliotype, artotype, etc.  
 810 Note Includes Canadian English, which may be kept separate by prefixing C; e.g. C811  
 Canadian poetry  
 811.44 *Winter, William* 1836-1918  
 813.46 *James, Henry* 1843-1916  
 820 Note Canadian literature may be clast as British, if preferd, but separated by prefixing C  
 to 820. See note to 810  
 839.746 6 *Karl Rupert Nyblom* 1832-1907  
 .776 5 *Gunnar Wennerberg* 1817-1901  
 841.86 *Deroulède, Paul* 1846-1914  
 922.6 *Baptist* Immersionist  
 .82 *Omit*  
 .83 "  
 .85 Christian science (*Omit Catholic apostolic*)  
 940 *Europe*  
*From fall of Western empire (Rome) A. D. 476*  
 .1 *Medieval Europe* 476-1453  
*For Byzantine empire see 949-5*  
 .11 Rise of new nations 476-800  
 .14 Age of feudalism 800-1100  
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*Charlemagne* 768-814  
*Norman conquests*  
 .17 Age of chivalry 1100-1453  
*To fall of Eastern empire (Constantinople) 1453*  
 .18 Crusades 1096-1270  
*See also church history, 270.4-.5*  
 .2 Modern Europe 1453-  
 .21 Renaissance period 1453-1517  
*Discoveries and inventions*  
 .22 Age of the reformation 1517-1789  
 .23  
 .24 30 years war 1618-48  
 .25  
 .26  
 .27 Napoleonic period 1789-1815  
 .28 19th century 1815-1914  
 .29



- 940.3 Great war 1914-19  
*A somewhat more detailed expansion is printed in ed. 10*
- .31 Political history
- .32 Diplomatic history  
 See also 940.31-314 Political history
- .33 Groups of countries: allies and neutrals  
 As a body; for individual countries see 940.34-39
- .34-39 Individual countries  
 Divided like 940-999  
 Under each country further subdivision may be made with the following numbers, if its part in this war is classed here instead of with the rest of its history:
- 01 Political history Causes
- 02 Diplomatic "
- 03 Local (states, counties, provinces, cities)
- 04 Military organization  
 Class operations in 940.4
- 05 Aspects: economic and other
- 06 Celebrations
- 07 Prisons, etc.
- 08 Personal narratives
- 09 Illustrative
- .4 Military history  
 Including frightfulness, atrocities as military expedient
- .41 Land operations
- .42-43 Special campaigns and battles
- .44 Air warfare
- .45 Naval history
- .46 Celebrations, commemorations  
 Usually better classed with event commemorated  
 For American patriotic societies of this war see 369.186
- .47 Prisons, hospitals, charities
- .48 Personal narratives, secret service
- .49 Illustrative material  
 Subdivided like 973-79  
 For special collections; but most material should be classed with its subject; poetry, drama, etc. with the literatures to which they belong
- .5 Later 20th century  
 Including works on 20th century as a whole
- .6-913 *Material transferred to .21-5*
- 943.08 *New German empire 1866-1918*  
*William 2 1888-1918; Great war 1914-19 and downfall of empire*
- .085 German republic 1918-
- .1  
*Note* By peace of Versailles, 1919, most of Posen (.13) and parts of East Prussia (.11), of West Prussia (.12) and of Silesia (.14) were restored to Poland. Danzig (.12) as port of Poland made free city with 729 sq. mi. of territory
- .4  
*Note* In 1919 by peace of Versailles 382 sq. mi. of Rhenish Prussia (.42) including Moresnet, Malmédy and Eupen were ceded to Belgium, and 783 sq. mi. of Saar valley to France, subject to plebiscite in 1934. Alsace (.44) and Lorraine (.45) taken from France in 1871 were restored. See 944.38
- .5  
*Note* By peace of Versailles in 1919 part of Schleswig-Holstein (.51) was restored to Denmark
- .6  
*Note* A note on the assignment of former Austrian territory, as provided for by the peace of Versailles, was included in ed. 10, but omitted from ed. 11 because of changes made by the treaty of St Germain and resulting uncertainty as to boundaries, but according to Statesman's yearbook for 1923, Tyrol (.64) is retained by Austria, Carniola (.67) and Istria (.68) were ceded to Italy, and Dalmatia (.69) to Yugoslavia



- 943.7 Czechoslovakia  
     .71 *Bohemia* .72 *Moravia* .73 *Silesia* .74 *Galicia* .75 *Bukowina*
- .8 *Poland* *Including history before the division*  
 Extinct as state from 3d partition in 1795 til 1919, when its sovereignty was restored by the peace of Versailles. See also 943.11-.14, 943.73-.74 and 947.4-.5
- .9 *Hungary, etc.*  
 By the peace of Versailles 1919 the union of Transylvania (.92) with Rumania in 1918 was confirmed; Fiume (.94) was made independent, subject to plebiscit in 4 years; Slavonia (.93) Croatia (.94) Bosnia (.95) and Herzogovina (.96) wer recognized as part of Jugoslavia (949.7)
- 944.3 *Champagne* *Ile de France* *Lorraine*  
     .38 *Lorraine* (Alsace-Lorraine): .381 *Meuse* .382 *Meurthe et Moselle* .383 *Alsace* (But use .38 for Alsace and Lorraine together)  
 See also 943.44-.45 .39 *Vosges*
- 947.08 *Nicholas 2* 1894-1917  
 Revolution 1917
- 949.7 Jugoslavia: *Serbia, Montenegro* *Bulgaria*  
 .8 *Rumania: Wallachia, Moldavia, Dobruja*

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## Edition 11: tables

Corrections, additions and notes, in numeric order of tables

*See on p. 2, note for corresponding list for edition 10*

- 021.201 *Note* *Change 024.64 to 024.674*
- 022.916 *Note* " *651 to 651.236*
- .99 *Note* " *651 to 651.465*
- 025.6 *Note* *See 024 for rules for readers*
- 060 *General learned societies*  
*Note 1* *Subdivided by using for 3d figure: 1 American; 2 English; 3 German; 4 French; 5 Italian; 6 Spanish; 7 Slavic; 8 Other; e.g. Académie des sciences morales et politiques, 064*
- 069 *Museums*  
*The following is an outline\* of a tentative scheme for museum administration prepared by a committee of the American association of museums, and filling 13 pages of ed. 11 of the Decimal Classification*
- .1 *Founding*      *Educational activity*      *Cooperation*
- .2 *Buildings*
- .3 *Equipment*      *Furnishings*      *Supplies*
- .4 *Collecting*      *Preparing*      *Repairing*
- .5 *Collections*      *Exhibits*
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- .7 *Publications*      *Publishing*
- 090 *Note* *Ad See also 010 for bibliography and bibliofily; 655 for printing and publishing*
- 215 *Note* *Antagonism or reconciliation between science and Bible religion. Pro and con arguments by scientists. Bridgewater treatises. For creation see 213*
- 323.1 *Note* *For immigrant nationalities*
- 325.4-9 *Note* *Both immigration and colonization divided like 940-990, by country of settlement; e.g. 325.73 Foren population of United States; Americanization. See note to 325.2 for a given nationality*
- 333 *Note* *Conservation of natural resources*
- 339 *Note* *Conservation; restrictions on use or waste of materials, including general works covering natural resources*
- 352.008 *Forms of administration*  
*Commission, manager, etc.*
- 362.6 *Aged*      *Infirm*      *Bereft*
- 370.9402 *Changed from .9405 of ed. 9*
- 386 *Note* *Stajes (horse or motor)*
- 387 *River, lake, ocean and air transport*
- 394.4 *Note* *Coronations, durbars, etc.*
- .5 *Processions*      *Pageants*
- .6 *Fairs*      *Kermess*
- 398.2 *Note* *Legends of Arthur, Charlemagne, Roland, Faust, Reynard the fox, etc. But poems, dramas, etc. based on these legends clas in literature*



- 449 *Provençal* Catalan  
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 546.432  
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*Chanje position of note printed under this number so as to precede a brace covering 547.3-.9 (as for 430-489)*  
 552.8 *Misprinted 553.8*  
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*Note* *ch to Nissl's chromophilic bodies (omitting remainder of note)*  
 .669  
*Note* *in comparison with human organs*  
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 .88  
*Note* *See also Fasting, famin, starvation, 613.24*  
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 631.6  
*Note* Agricultural engineering  
 .8421 *cyanid misprint for cyanamid*  
 636.9 *guinea pigs, elephants, etc.*  
 648.7 *Pests: traps, poisons, insectifuges (In some copies of ed. 10 the .7 has dropt out)*  
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 651 *Offis economy*  
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- 655.25 *Typesetting: composition, proofreading, distribution*  
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- .35 *Stamps, stamping etc.*  
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- .36 *Omit addressing*  
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- 695  
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- 797  
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- 913.3 Antiquities of ancient countries  
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- 913.4-.9 Antiquities of modern countries  
 Subdivided like 940-999, e.g. 913.42 English antiquities. *See also note under 913.3*
- 920  
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- 943.6  
*See note under this number, in list of corrections in ed. 10*
- 944.08  
*Note, at end: Poincaré 1913-20; Great war 1914-19 Deschanel 1920 Millerand 1920-*
- 945.08  
*Note Transfer to this number from .09 the note Victor Emmanuel 2, Cavour, Garibaldi*
- 945.09  
*Note Victor Emmanuel 2 -1878; Humbert 1878-1900; Victor Emmanuel 3 1900-*
- 949.7  
*Note In addition to Serbia and Montenegro, Yugoslavia (Kingdom of the Serbs, Croats and Slovenes, established in 1918) includes Dalmatia (943.69), Slavonia (943.93), Croatia (943.94), Bosnia (943.95), Herzegovina (943.96) and Slovenia*
- .8  
*Note Includes also Bessarabia (947.7) added in Mar. 1918, Bukovina (943.75) Nov 1918, and Transylvania (943.92) Dec. 1918*
- 960 *Africa*  
*Tentative expansion covering 15 pages. Outline is as follows:*
- 961 *North Africa*
- .1 *Tunis*
- .2 *Tripoli Libia Italiana*
- .3 *Fezzan*
- .4 *Cyrenaica or Barka Bengazi*
- .9 *Libyan desert*



- 654  
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- 655.25 *Typesetting: composition, proofreading, distribution*  
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- .35 *Stamps, stamping etc.*  
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- 913.4-9 *Antiquities of modern countries*  
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## EXPLANATION

The field of knowledge is divided into nine main classes and these are numbered by the digits, 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *no* one of these classes are marked nought, and form a tenth class. Each class is similarly separated into 9 divisions, general works belonging to *no* division having nought in place of the division number. Divisions are similarly divided into 9 sections and the process is repeated as often as necessary. Thus 512 means Class 5 (Natural Science), Division 1 (Mathematics), Section 2 (Algebra), and every Algebra is numbered 512.

The books on the shelves and the cards in the subject catalog are arranged in simple numerical order, all class numbers being decimals. Since each subject has a definite number, it follows that all books on any subject must stand together. These tables show the order in which subjects follow one another. Thus 512 Algebra precedes 513 Geometry and follows 511 Arithmetic.

**Summaries.** The first summary shows the ten Classes into which all topics are divided. The second summary shows the nine Divisions of each of the ten classes, and is useful as a bird's-eye view of the whole scheme on a single page. Then follow ten pages, one for each class, showing the nine Sections into which each of the nine divisions of each class are divided. These pages are to be used for a synoptic view on a single page of the scope of each class.

**Sub-sections.** Following these three summaries is the complete classification, which repeats, in proper order, all the classes, divisions, and sections with all the sub-sections given under each section. Synonymous terms, examples, brief notes, dates, and various catch-words are often added to the simple heads for the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers. Therefore all references to numbers should be looked up in the **full tables of sub-sections**; never in the Summaries, which are really only a table of contents of the Complete Tables.

**Index.** After the tables is an index, in which all the heads of the tables are arranged in one simple alphabet, with the class number of each referring to its exact place in the preceding tables. This index includes also, as far as they have been found, all the synonyms or alternative names for the heads, and many other entries that seemed likely to help a reader find readily the subject sought. Though the user knows just where to turn to his subject in the tables, by first consulting the index he may be sent to other allied subjects, where he will find valuable matter which he would otherwise overlook.

**Full explanations.** Detailed illustrations and rules for the many applications of this system and full explanations of its mnemonic and other important features will be found in the introduction.

## INTRODUCTION

[The simplified spellings used are strongly recommended for general adoption by both the American and English Philological Associations, including nearly all prominent scholars in English now living.]

**Origin and growth.**—The plan of the following Classification and Index was developed early in 1873. It was the result of several months' study of library economy as found in some hundreds of books and pamphlets, and in over 50 personal visits to libraries. In this study the author became convinced that the usefulness of these libraries might be greatly increased without added expenditure. Only a fraction of the good possible could be gotten from a library without catalogs, indexes, and aids, to tell librarians and readers what the collection contained on any given subject; yet, by the methods then used, this could be done satisfactorily only at a cost so great as to be prohibitive to all but a few wealthy libraries. With rare exceptions, libraries were growing rapidly. Catalogs, made at great cost, became antiquated soon after being finished. The methods used involved frequent remarking and re-arrangement of the books and remaking of catalogs and indexes, as the only escape from a confusion that seriously crippled usefulness. In this repetition of work experience and skill of previous librarians were largely lost. The great need was a system which should enable each librarian to stand on the shoulders of his predecessors, and fully utilize their labors; which should make the work done to-day permanent, instead of something to be superseded within a few years, and therefore not worth doing in the best way; which should supply the best appliances, instead of leaving the young librarian not only to learn how to work, but to make all his own tools.

Seventeen years' practical use of the system here explained proves that it will accomplish this result; for with its aid catalogs, shelf lists, indexes, and references, essential to this increased usefulness, can be made faster and cheaper than by any method not having its essential features, and, when done, are better and vastly more permanent.

Practical utility and economy are the keynotes of the entire system, and no theoretical refinement has been allowed to modify the scheme, if it would detract from its usefulness or add to its cost.

It was chiefly necessary to find a method that would index books and pamphlets on the shelves, the cards of a catalog, clippings and notes of scrap-books and index rerums, references to all these items, and indeed any literary material in any form, as readily as an ordinary index guides

to the proper page of a bound book. This difficult problem has been solved by using no reference marks except the simplest symbols known to the human mind—the Arabic numerals—and by aiding their simplicity with many practical mnemonic devices.

The system has been found on trial equally valuable for cataloging and indexing, and for numbering and arranging books and pamphlets on the shelves. For notes on other uses, see p. 37.

When the first edition was published in 1876, 12 pages of tables containing the thousand sections were criticised as being altogether too elaborate for use even in a large library. As fast, however, as the Relativ Index with its remarkable powers became known, users asked for further subdivisions, and both tables and Index have steadily grown since it has been found so easy to gain the admitted great advantages of close classification, and yet avoid the old difficulties by means of the Relativ Index.

**Extent of use.**—The register of libraries which have actually adopted the system, though growing rapidly, is known to be very incomplete. Names are often added of libraries which have used the system for five or 10 years without our learning the fact. A careful registry is kept of the buyer of each classification printed, but we make no assumption that a library has adopted the system because it has ordered a copy of the book.

We print below a brief table showing the growth of the four editions. The nearest estimate possible gives from 200–300 libraries, besides a large number of private book owners and literary workers having the system in daily use.

Edition	Date	No. of pages				Copies printed
		Preface, etc.	Tables	Index	Total	
1	1876	12	12	18	42	1,000
2	1885	66	162	86	314	500
3	1888	4	227	185	416	500
4	1891	41	234	191	466	1,000

**What is the system?**—A Relativ Index<sup>1</sup> with a subject classification, so numbered or lettered that reference is compact, accurate, and quickly made, is the essential feature, and anything beyond this is merely the application of this plan with various helps and accessories.

<sup>1</sup>Tho the author is interested only in the usefulness of the system, not in questions of priority of its invention, extended investigation by others fails to show that this most important feature of the system—the relativ index, on which all else hinges—had ever before been used as here to index by a single reference the most diverse material. The relativ location had been used, but not in the present combination with the subject index, which gives it most of its value. The tables of classification, while adopting suggestions from many sources, are original in their system of arrangement and notation, and in many minor features. The decimal form and many mnemonic features of the system have not been found in earlier use, tho since their invention in 1873, this as well as the subject index and other features have been very frequently copied, often with, but oftener without, acknowledgment of their source. But the author is glad to find this system, which has cost him so much labor, doing good service even for those who neglect to mention where they found so valuable a labor-saving literary tool.



Any subject classification with a *relativ* index in which the one entry indexes a book in the ordinary way, and at the same time indexes shelves, cards, clippings, or any other literary material, is a form of this system.

**Decimal form of the system.**—The author has devised and experimented with several different plans of classification and notation by means of numbers, letters, and combined numbers and letters, with bases of 26, 35, (the latter accepted by Mr Cutter and now most admirably worked out in his Boston Athenæum classification), 50, 100, and 150, yet none have seemed good enough to warrant fully working out and publishing details, except that here printed, based on Arabic numerals used decimally. The wide adoption of this system is largely due to the fact that no one ever complains that a classification is too simple, while there is great danger of the complaint of complexity. The simplicity of the decimal form has so commended itself that many think of it as the only form, tho obviously it would be just as much the “relativ index system” if the classification were wholly marked by letters.

The Subject Index is the simplest application of the symbols next in simplicity to 1, 2, 3; viz. a, b, c. This use of the simplest two sets of symbols known, with their common meanings, has given the system its reputation as the simplest yet proposed.

**Best known decimal form.**—The decimal form means simply that the heads are grouped and numbered with the common arithmetical figures used decimally. As the system here printed is the only decimal form that has thus far been carefully elaborated and published, it is commonly thought and spoken of as if it alone were the only possible form of the author’s original plan; tho obviously an infinite variety of “relativ index systems” in decimal form could be made by filling the outline with different heads, or with the same heads in different order.

To make out a new set of heads would involve labor and cost vastly beyond the dreams of any person who has not tried exactly this work. The time actually spent on the tables as here printed, by various competent workers, would aggregate several years and cost thousands of dollars. The uniform and urgent advice of the experienced is to adopt a poorer scheme already made rather than undertake so herculean a labor. When done, the maker may possibly be better suited with it, but it is doubtful if many others will be. It is vastly wiser for any man whose time is of value, to use it in something more practically useful to himself and his library than in trying to construct a “satisfactory” scheme of classification. No one yet ever wholly suited himself or any one else, and probably no one ever will. By adopting this scheme already worked out he saves much time and money, gains the immense advantage of using a system in common with hundreds of

others, so that he may utilize their labors and investigations and share with them the economies of coöperation.

**Relativ Subject Index.**—The alphabetical Index, the most important feature of the system, is as complete as could be made by combining the headings of leading catalogs and bibliographies, and adding such as users of the system have found desirable in 17 years' experience. After all these efforts, new headings will still be needed, and will be added in each new edition.

The Index is designed to guide both in numbering and in finding books. In assigning numbers, the most specific head that will contain the book having been determined, reference to that head in the Index gives the class number which should be assigned. Conversely, in finding books on any given subject, reference to the Index gives the number under which they are to be sought on the shelves, in the shelf list, or in the subject catalog. Whenever a new subject comes up, it and its synonyms, with the class-number decided on, should be interlined in the Index, so that the classifier may be uniform with himself in future work.

The Index aims to give similar or synonymous words, and the same words in different connections, so that any person of intelligence will hardly fail to get the right number. A reader wishing to know something of the tariff looks under T, and, at a glance, finds 337 as its class-number. This guides him to the shelves, to all the books and pamphlets, to the shelf catalog, to the subject catalog on cards, to the index of books charged at the loan desk, and, in short, in simple numerical order, throughout the whole library to anything bearing on his subject. If he turns to the tables, he will see that it means class 3, Sociology; division 3, Political economy; section 7, Protection and free trade; but the number alone is enough to classify the book or to find it, for either cataloger or reader. If he had looked under P for protection, or F for free trade, or D for duties, or C for customs, or under any other leading word relating to his subject, he would have been referred to 337, or some one of its sub-divisions.

Had he looked for "railroad" he would have found after it 16 separate entries, each preceded by a catchword indicating the phase of the subject in the scheme. A book on railroads may be a treatise on the desirability of government ownership, control, etc., and then is clearly a question of social science; or it may be a practical hand-book for an employe, explaining business methods of railroading, running trains, handling freight, etc., when it is as clearly one of the useful arts. The cataloger knows to which of these heads his book belongs, and the reader knows in which of its phases he wishes to examine the subject. Moreover, the 3 and 6 beginning the numbers indicate clearly the character of each class. But even if the significance of these figures were entirely disregarded, no confusion would result, for, on consulting either of the numbers in the catalog, in the scheme, or on the shelves the difference would be clearly seen.

In other cases, it is more useful to keep the books on the same subject together, tho treated from different standpoints. A glance at the Index tells either reader or classifier which plan has been adopted for each case.

All topics printed in black-face type in the Index are further divided in the tables, where one may see the subheads. This saves reprinting all these subdivisions which would increase the bulk of the Index many-fold; e. g. if one having a book on "prison labor" looks in the Index for "Convict labor" or "Prison contracts," he finds at once its special number 331.5; but if, on the other hand, he thinks to look only for the general subject "Labor," he finds in black-face type the entry "Labor, political economy, 331," and turning to the tables he finds under 331 the subdivision "331.5, Convict labor," the exact topic in hand.

The greatest objection to a class catalog has always been the impossibility of knowing just where to put a book in cataloging, and just where to look for it when it is again wanted. Different librarians, or the same librarian at different times, class the same or similar books in widely different places. Where one man did all the work, and held his place for a long series of years, there was a certain degree of uniformity; but even then there was danger of looking at the same book from different standpoints, thus causing confusion. When the daily press is full of one phase of a subject, the tendency is strong to class all books on this particular subject from the current point of view; and next year, if a different side of this same subject is again before the public, there is the same tendency to class books from the new point of view, in this way separating books on the same and putting together books on different phases. But, fortunately, practical usefulness does not require that the ideas of this one or that one be followed, but only that books of the same character be always put in the same place, and that there be some means of knowing readily where that place is. The Relativ Index, with its catchwords, was designed and is found in use to meet both these requirements, for it insures that books on the same phase of any subject coming before the classifiers shall be assigned to the same place, and that any reader seeking these books shall be referred to that place. If this is done, all requirements of a good classification are filled. If it is not done, the system is a failure; for the only real test of any scheme is its helpfulness to workers in the library.

Some prominent opponents of class catalogs admit that the Relativ Subject Index, in deciding where to class a book at first, and where to look for it ever afterwards, has removed their strongest objections. Certainly it would be impossible to make an Index more compact or more easy of reference.

This Index allows a great portion of the work of classification to be

done in advance by experts, thus securing, at the merest fraction of the usual cost, better and more uniform results than would be possible to the ordinary cataloger, and reducing the labor of classing a library to much narrower limits than ever before.

Each of these thousands of subjects has been carefully assigned its number, many of them after long consideration and consultation with specialists. No individual is sufficiently learned to class wisely books on all subjects and sciences; but botanists can assign all botanical subjects to the right number, mathematicians all mathematical topics, and thus the Index will in time become as accurate as the best scholarship of the day can make it. Even if the decision reached were not the wisest possible, all practical purposes are served, because, as each cataloger copies the number from the same index, all books on that subject will be placed together; and, as each reader gets his number from this same Index, he will go directly to the books he seeks.

**What the Relativ Index includes.**—Most names of countries, towns, animals, plants, etc. have been omitted, the Index containing only those which are in the tables; e. g. it cannot enumerate all the species of trilobites, but when the classifier has found from the proper reference books that *Remopleurides* is a trilobite, the index will send him to 565.39, and he can classify his monograph on that subject.

**Tables.**—The essential complement of the Subject Index is the tables of classification, so mapped out as to show in four ways—viz., by size of type, face of type, indentation, and number of figures prefix—the rank of each subject in the classification.

The field of knowledge is divided into nine main classes, numbered by the digits 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *none* of these classes, are marked *nought*, and form a tenth class; e. g. class 1 is the library of Philosophy; class 5 is the library of Science; class 9, of History, etc. These special classes or libraries are then considered independently, and each one is separated again into nine special divisions of the main subject, numbered from 1 to 9, as were the classes, general works belonging to *no* division having *nought* in place of the division number. Thus 59 is the ninth division (Zoölogy) of the fifth class (Science). A third division is then made by separating each of these divisions into 10 sections, numbered in the same way with 0 and the nine digits; and this decimal sub-division is repeated, till it secures as many subsections as may be needed in any topic. Thus 513 is the third section (Geometry) of the first division (Mathematics) of the fifth class (Natural science). This number, giving class, division, section and sub-section, if any, is called the classification or the class number, and is applied to every book and pamphlet belonging to the library. All geometries are thus numbered 513, all mineralogies 549, and so throughout the library all books on any given subject bear the number of that subject in the scheme.

Where 0 occurs in a class number, it has its normal zero value. Thus a book numbered 510 is class 5, division 1, but *no* section; i. e. the book treats of division 51 (Mathematics) in general, and is limited to no one section, as is geometry, markt 513; 500 indicates a treatise on science in general, limited to no division. A naught occurring in the first place would in the same way show that the book is limited to no class; e. g. a general cyclopedia which treats of all nine classes.

**Choice and arrangement of heads.**—The selection and arrangement of the many thousand heads of the classification cannot be explained in detail for want of space. In all the work, philosophical theory and accuracy have been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preserved in books, has been appreciated from the first, and theoretical harmony and exactness have been repeatedly sacrificed to practical requirements.

**Sequence of allied subjects.**—Wherever practicable, heads have been so arranged that each subject is preceded and followed by the most nearly allied subjects, and thus added convenience is secured both in catalogs and on shelves; e. g. Building (690) follows Mechanic trades (680) at the end of Useful arts, and Architecture follows at the beginning of Fine arts.

The student of Biology (570) finds fossil life or Paleontology (560) before, and vegetable life or Botany (580) after, this followed in turn by animal life or Zoölogy (590), ending with Mammals (599); while Useful arts (600) begin with human Anatomy (611) under Medicine, thus giving a regular growth from the fossil plant thru the vegetable and animal kingdoms to the living man.

**Co-ordination.**—Theoretically, the division of every subject into just 10 heads is absurd. Practically, it is desirable that classification be as minute as possible, without use of added figures; and the decimal principle, on which our scheme hinges, allows 10 divisions as readily as a less number.

This principle has proved wholly satisfactory in practice, tho apparently destroying proper co-ordination in some places. The difficulty in such cases is entirely obviated by the use of another figure, giving nine sub-sections to any subject of sufficient importance to warrant closer classification. In history, where classification is made chiefly by countries, a single figure is added, as in the other classes, to give a tenfold geographical division, and a zero followed by another figure is added to give a division into periods.

As all history is by countries, and as minute geographical subdivisions are needed for travels, guide books, and various other uses, the rule is adopted always to use 0 before the time or period figure. The 0 shows that there is no farther geografic division in that number, and that a period division is there introduced. This allows the use of

the same period division in various places, e. g. 942.05 England in time of the Tudors; 942.905 Wales under the Tudors; 942.7405 Yorkshire under the Tudors. As each figure added gives a tenfold division, any desired degree of minuteness may be secured in classing special subjects.

As in every scheme, many minor subjects are under general heads to which they do not strictly belong. In some cases, these heads are printed in a distinctiv type; e. g. 429 Anglo-Saxon, under English philology. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful. The only alternativ was to omit them altogether. If any such omission occurs, it will be supplied as soon as discovered, the intention being to provide a place in the tables for every known topic.

**New subjects.**—When any new topic arises, it is always closely related to some existing heads. If there be no blank space left for it, it is combined with the head nearest allied, and, if desired, by adding a decimal place abundant room is made for the new comer. The system is thus capable of unlimited expansion, and can never break down for lack of room for growth.

**Catch-titles.**—In naming headings, strict accuracy has often been sacrificed to brevity, for short familiar titles seemd more important than that the names given should express with fulness and exactness the character of all books catalogd under them. Many subjects, apparently omitted, will be found in the Index, assignd, with allied subjects, to a head which bears the name of the most important only. Reference to this Subject-Index will decide at once many doubtful points.

**Form distinctions.**—The classification is mainly by *subject* or *content* regardless of form; but an additional form distinction for general treatises is found practically useful.

Thus, in Science there are many compends, dictionaries, essays, periodicals, and societies, treating of Science in general, and so having 0 for the division figure, but treating it under different forms, and, therefore, divided into sections according to this form: 501 for philosophy or theories of Science, 502 for compends, 503 for dictionaries. This treatment is as nearly as practicable uniform in all classes. Creasy's "Fifteen decisive battles" is 904, the first figure being 9, because the book is clearly history; the second figure 0, because limited to no division of class 9; and the third figure 4, because the book is a collection of essays.

These form distinctions are introduced at the beginning of the class because the number of general works is large, and these first numerals would otherwise be unused. They apply only to general treatises, which, without them, would have a class number ending in two naughts.

This form distinction is often used to subdivide general works on

divisions or even sections; e. g. under 510, works on mathematics in general are divided by form into 510.3, dictionaries of mathematics; 510.4, essays; 510.5, periodicals, etc., just as works on Science in general were divided. A dictionary of mathematics is 510.3, not 503, because every book belongs to the most specific head that will contain it; so 503 is limited to dictionaries or cyclopedias of science in general. Books treating of many subjects, such as general cyclopedias or periodicals, go in class 0, and are then divided by form into cyclopedias, periodicals, or societies.

Form divisions always have the same set of numbers, preceded by 0, viz.: 1, philosophy, theories, etc.; 2, compends, outlines; 3, dictionaries, cyclopedias; 4, essays, lectures, letters, etc.; 5, periodicals, magazines, etc.; 6, societies, associations, transactions, reports, etc.; 7, education, study, teaching, training, etc.; 8, polygraphy, collections, etc.; 9, history. Thus a periodical on any subject has the subject number followed by 05; e. g. a periodical on public health, 614.05.

But if the number already ends in 0, 0 is not repeated before form-division figures; e. g. a zoölogical magazine is 590.5, not 590.05.

**Minute classification.**—On first publication in 1876, a common criticism was that 1,000 heads could never be successfully used, however desirable so close classification might be. As soon, however, as actual experience proved it as easy to use 1,000 heads in the new system as 100 in the old, the obviously great practical value of close classification led one user after another strongly to urge the publication of subdivisions. This is now done in such a way that one may use the whole or any part of the sub-sections and ignore the rest without difficulty or confusion, thus allowing each to use minute subdivisions where he wishes or needs them, without being forced into refinements in subjects where he has few books or little interest. The first three figures only may be used as before, and the rest show the scope of the subject. On many topics minute sub-sections are printed simply for this purpose, and for use in indexing periodicals, transactions of societies, and in keeping notes.

The advantage of close classification is unquestioned, if the user knows just what it is. With this plan it is not only practicable, but comparatively easy. If there are only 10 books on a given topic, it is useful to have them in groups among themselves, for otherwise they would have only accidental order, which is of service to no one. A reader wishing a specific book should go, not to the shelves, but to the Author-and-title catalog, where he can find its place quickest. If he wishes a specific subject, he is sent instantly to the exact place by the Subject-Index. If he wishes to study the library's resources at the shelves, he will be *greatly helped by the most minute classing*. A teacher showing his pupil the material on any subject, if there are only 20 books, would surely put together those covering the same points, if

there are even two. Much more should librarians group closely their greater collections, that readers may gain something of the advantages of an experienced guide.

Thus every specialist has his own special library. If a student of science in general, he is sent to class 5; if his department be zoology, his library is 59; if his specialty is shells, he finds all works and references on that subject in library 594. Whether a specialist needs it or not, every subject being a library by itself, shows resources and wants as no catalog can show them. A catalog cannot be made to take satisfactorily the place of handling books themselves. This advantage weighs most in a college or society library, where many go to the shelves; but even if librarians only are admitted, close classification is worth its cost in the added power it gives.

**Mnemonics.**—Arrangement of heads has been sometimes modified to secure mnemonic aid in numbering and finding books without the Index; thus China has always the number 1. In Ancient History, it has the first section, 931; in Modern History, under Asia, it has 951. Similarly the Indian number is 4; Egyptian, 2; English, 2; German, 3; French, 4; Italian, 5; Spanish, 6; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all divisions by languages or countries. Italian 5, for instance, is in 035, 055, 065, 450, 850, 945, and many others. This mnemonic principle is specially prominent in Philology and Literature, and their divisions, and in *form* distinctions used in the first nine sections of each class. Philosophy, methods, or theory occurring as a head is always 1; dictionaries and cyclopedias, 3; essays, 4; periodicals, 5; associations, institutions, and societies, 6; education, 7; polygraphy or collections, 8; history, 9. In numerous cases several minor heads are grouped together as Other, always numbered 9.

While Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals are 5, Asia is 5, Oratory is 5, etc. Even were it possible, to limit 5 to Italian would waste numbering material, and results would not justify cost. The purpose is to give practical aid, not to follow a fanciful theory. A cataloger marking a German grammar, remembers that all Philology begins with 4, and, as German is always 3 and grammar 5, he knows the number must be 435. Italian (5), poetry (1), is as plainly 851 with no danger of being mistaken for "poetry of grammar" or "theory of Asia," because the numbers also have that meaning. This feature is an *aid*, not the regular method, and in all doubtful cases one refers at once to index or tables. Suggested difficulties are usually creations of ingenious theorists and not an outgrowth of practical experience in using this plan.

Wherever practicable, this mnemonic principle is used in subdividing sections. 558, Geology of South America, is subdivided by adding the *sections* of 980, History of South America. Geology of Brazil then



must be 558.1: mnemonically, the first 5 is the Science number; second 5, Geology; 8, South America; and 1, Brazil. Any library attendant or regular user of the scheme recognizes at a glance 558.1 as Geology of Brazil. This mnemonic feature occurs in several hundred places in the classification, and is of great practical utility in numbering and finding books without catalog or index, and in determining the character of any book simply from its call number. The extent of its use is shown in the four tables appended to the main Index, giving alphabetical lists of (1) subjects, with class number of each, which may be subdivided geographically; (2) form divisions, with the figures to be added in making such division; (3) languages, with their class numbers, which may be further subdivided philologically by adding the figures given in Index table 4; (4) philological divisions, with the figures to be added in subdividing any language in Index table 3.

As in close subdivision, the wish for mnemonic correspondence has never outweighed any claim of greater usefulness. In many cases choice between numbers was hardly perceptible, e. g.: whether in philology the order should be French, Spanish, Italian, or French, Italian, Spanish. In such cases mnemonic numbers were given preference, and 17 years has proved this wisest. Great gain, beside ease of remembering, results from this uniform use of the same numbers with the same meaning whenever a similar division is made. Wherever a division by languages or countries is made, it follows philology or history numbers, and in the tables, the note "Divided like 900" fully takes the place of reprinting all the history subdivisions. This saving justifies use of these numbers in some cases, even where a somewhat different order might seem more nearly fitted to the special case; e. g. in 342 an order which would put the constitutional history of Canada (342.71) and Australia (342.94) next that of England (342.42) would be better adapted to the special case than the actual order which separates them both from England and each other. Still by following the usual "procrustean" numbers, many topics can be subdivided minutely without further study, by simply applying the History or Language subdivisions. A single illustration of the astonishing power this principle gives will suffice, tho there are thousands that might be given: 016 is "Bibliography of special subjects, divided like the regular classification," therefore by aid of the tables under 581, 016.581974742 readily translates itself to users of the system into "Bibliography of the flora of Albany co., N. Y." While these 12 figures might never be used, if a specialist wishes minute division, it is ready to his hand, conforms to the Index, and will be clearly understood by any one familiar with the plan. A specialist in such cases would probably adopt a contraction for his long number, and use in full only the minute divisions. See p. 35 for such contractions.

**Decimalism.**— We have not sacrificed utility in order to force sub-

jects on the decimal procrustean bed. *Decimals have been used as servants, not as masters.* When subjects have been combined or separated into just 10 heads, it has been from no necessity of the scheme, but because it seemd the most useful way, all things considerd. In many cases there were at first only three to seven heads instead of 10; but usually, during three years of testing before first publication, it was found useful to divide some of these heads, and, as it took no added space or labor, there was no objection to it. On the other hand, there were cases where more than 10 heads seemd more natural; and, as any number up to 100 is provided for by adding one decimal place, this was done in most cases. As only 1000 sections were first printed, it was often necessary to put two or more closely allied topics together under the same number, as must still be done whenever a library limits the number of figures used to three; but during the 14 years that the system has been in print, subdivisions have multiplied, till now every important topic has its own special number. The scheme gives us for each topic, as it were, a case of nine pigeon-holes, with a large space at the top; and we use them as every practical business man uses such pigeon-holes about his desk. If, as in 220, there are less than nine main topics, it is often convenient to use the extra spaces for subdivisions. Thus we keep separate, under the Old Testament, the historical, poetical, and profetical books; and under the New Testament, the gospels, epistles, and apocalypse. The spaces are there, and it is convenient to use them,—a reason that experience proves a good answer to the charge of lack of coördination, tho indention and type in the tables make that charge baseless. Then in 280, having more than nine topics,—if we are using only three figures,—we put Congregational in the same space with Presbyterian, and all the little denominations together in the last box, just as the business man puts his papers in his pigeon-holes. If he insisted on having a different case made to order for each use, it would cost over twice as much; he could not group them together or interchange them, and they would not fit the shelves of his office as now.

There has been a perverse misapprehension of this feature, and critics oftenest stumble over "procrustean 10." In fact, this is an element of usefulness. A railroad also has the fault that it is procrustean in its path and in its times. It cannot come to your door nor wait your convenience, as did the stage-coach or carriage; it cannot go to the fields for its loads of produce; it cannot turn out for obstacles; and it is simply because it is procrustean that it can do its work so much better and quicker and cheaper. The parallel could be fairly extended to many other cases, but any thoughtful mind will recognize that the economy and ease of working the Decimal system are dependent on its being procrustean. Without it we should lose the great simplicity of the Relativ Index, many mnemonic correspondences, and the useful

o to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of language and form in Literature and Philology, and scores of similar advantages, depend wholly on procrustean 10, or else on some other number equally procrustean, but lacking the advantages of exact correspondence to our arithmetic.

**Relativ location.**—Economy and simplicity called not only for the Subject Index, but also for some plan of consolidating the two sets of marks heretofore used; the one telling of what subject a book treats, the other where the book was shelvd. By relativ location and decimal class numbers we have made our simple Arabic numbers tell of each book and pamphlet, both *what* it is, and *where* it is.

In arranging books on the shelves, absolute location by shelf and book number is wholly abandond, relativ location by class and book number being one of the most valuable features of the plan. Accompanying the class number is the book number, which prevents confusion of different books on the same subject.<sup>1</sup> In finding books, the printed numbers on the backs are followd, the upper being the class and the lower the book number. The class is found in its numerical order among the classes, just as the shelf is found in the ordinary system. Shelves are not numberd, as increase of different departments, opening of new rooms, and any arrangement of classes to bring books most circulated nearest the delivery desk, will at different times bring different class numbers on any given shelf. New books, as receivd, are numberd and put in place, in the same way that new titles are added to the card catalog.

Thus all the books on any given subject are found standing together, and no additions or changes ever separate them. Not only are all the books on the subject sought found together, but the most nearly allied subjects precede and follow, they in turn being preceded and followd by other allied subjects as far as practicable. Readers not having access to the shelves find short titles arranged in the same order in the shelf list, and full titles, imprints, subject and cross references, notes, etc., in the subject catalog.

Parts of sets, and books on the same or allied subjects, are never separated as they are sure to be, sooner or later, in every library arranged on the common plan, unless it be frequently re-arranged and recatalogd. The great expense of this makes it impracticable except for a few wealthy libraries. In this system both class and book numbers remain unchanged thru all changes of shelving, buildings, or arrangement.

Among hundreds of points raisd by librarians as to its practical workings and usefulness, the only one in which it was not shown to be equal or superior to the old systems was that in this relativ location a

<sup>1</sup>For suggestions regarding forms of book numbers best used with this scheme of classification, see p. 30.

book which this year stands, e. g. at the end of a certain shelf, may not be on that shelf at all another year, because of uneven growth of the parts of the library. This slight objection, however, inheres in any system where books are arranged by subjects, rather than by shelves, windows, doors, and similar non-intellectual distinctions.

**Sizes on shelves.**—Most libraries have abandoned close distinction of sizes. It is true that this distinction saves a little space, but at far too great a cost; for every distinction of sizes makes a parallel classification. If books are grouped in five sizes, one must look in five places before he can be sure of having seen all the books.

It is better to shelve octavos and all smaller books together in one series, and arrange in parallel libraries only quartos and folios, which are too large to stand on the regular shelves, showing the series in which any oversize book is put by a size letter prefix to the book number; e. g. 749 qA, to show that book A on Artistic furniture is too large for the regular shelves, and so is placed in the q or quarto series. Another way is to use a wood or pasteboard dummy, to show the location of a book not in its regular place. But, however solved, there is no conflict between the size problem and the Decimal Classification.

## CATALOGS

Any system of catalogs may be used with this scheme. But the two essentials of even the simplest system are the author (or preferably name) catalog and the shelf list. The chief use of the system for catalogs is for the latter and for the class catalog on cards.

**Name catalog.**—In the name catalog on cards, arranged strictly by names of authors and of persons or places written about, the class number holds a subordinate place, yet is constantly useful. If printed, it appears in a single column as in the Relativ Index, and, where there is no subject catalog, one can rapidly pick out the books on any desired topic by glancing down the column for the class number wanted.

**Shelf list.**—In the shelf list the class number is again highly important, as it makes of the list the most useful form of brief subject catalog. Each page gives in columns accession number, author's name, and brief title of every book in the library on the specific subject bearing that class number.

**Subject catalog.**—In the card catalog of subjects the classification is mapped out above the cards by projecting guides, making reference almost instantaneous. Subjects are arranged in the 1, 2, 3 order of their decimal subject numbers exactly as in the classification tables, and the cards of each subject are then further arranged alphabetically by authors.

The printed subject catalog on this plan is also the most compact and satisfactory in use. Under each class number are given the resources of the library on that subject, the heading giving for conven-

ience the name as well as the number of the subject ; e. g. "513 Geometry." General notes are printed in finer type under general heads, and an index at the end shows where to open the book to find any topic. As class numbers are put in place of page numbers, this index serves for any catalog, list or library arranged on this plan.

**Dictionary catalog.**—While it is as easy to use the dictionary catalog with this system as with any other, we find the common dictionary catalog inferior to the clast, for nearly all practical purposes. The dictionary plan, if used in a catalog, must give results very unsatisfactory to students, or else very expensive to makers.

The failure of the dictionary catalog to meet the requirements of the scholar has been often pointed out. While it is far the best for an index, there still exists much of the same need of a good clast catalog as at the first. But the difficulties in the way both in making and using such a catalog have heretofore been so great that there has been a conviction among many practical librarians that notwithstanding its great advantages, the idea must be abandoned as impracticable, while other eminent authorities have ably argued that the poorest clast catalog is better than one unclast, and that any use of such a catalog is in itself a lesson in bibliography. Now that the serious difficulties of making a good clast catalog have been so largely removed by the simple numbers and Relativ Index of the decimal plan, the merits of the clast over the more common dictionary system are becoming doubly prominent.

The Subject Index of this system is a skeleton dictionary catalog, covering everything not fully covered by the "name catalog." Instead of giving the book titles under each head, the number refers to all those titles simply and directly. The index may be made on any of the various dictionary plans, with all the advantages it may possess. To us the simplest seemd the best. We give only short headings with a brief indication in doubtful cases of the point of view taken in assigning the class number.

We therefore unite the advantages of the dictionary and clast catalogs, not by mingling them together, and so losing much of the simplicity of one and as much of the excellence of the other, but by really using both, each with its own merits. Only one set of titles is needed, for the class numbers make them available for both catalogs.

### ADVANTAGES

**Shelves.**—The system on the shelves is the simplest form of relativ location. Many libraries have adopted it for shelf arrangement, where catalogs recently printed, or large investment in another plan, made it too expensive to change anything else. The advantages here have been already mentioned under Relativ location, p. 19.

**Shelf list.**—By simply printing the shelf list at any time, a subject class list of the best kind is made for any topic on which there may be

present interest; e. g. if a town contemplates a new water supply, interest is greatly stimulated, and everything about water-works is wanted. The librarian has only to open his shelf list to 628.1 and 352.6 and print it. This great advantage is gained with but slight variation from the form found best in its regular use as a shelf list for yearly examination of the shelves to detect losses and misplacements.

**Accession book.**—From the accession book, tables of the number of books added on each subject are readily made from the shelf mark columns. A glance at it shows the character, by subjects, of the books added during any given period, for, wherever this class number occurs, it tells not only where the book is shelved but also what it is about.

**Pamphlets.**—These class numbers applied to pamphlets have proved specially satisfactory. The number is written on the upper left corner, and the pamphlets are shelved in pamphlet cases side by side with books on the same subject, or they may be kept on special shelves divided every 10 cm. by perpendicular partitions. Little expense is incurred, and yet the entire pamphlet resources of the library on any subject can be produced almost instantly. The immense advantages of this plan over those in common use, both in economy and usefulness, will be appreciated by every librarian in charge of a pamphlet collection. A name or author catalog is made on slips if time allows. The pamphlets themselves are the best subject catalog. Uncataloged pamphlets treating of any subject bear the same class number, and are arranged on the shelves in a case immediately before or after the books of each section, or, if preferred, each pamphlet may be put in exact place as if bound.

The tendency grows to put all material under its class number on the regular shelves, for the same reasons that have led to giving up division by size of books. One examining a subject likes to see all the resources in one place so far as possible.

**Sale duplicates.**—The same arrangement is admirable here. They are so constantly changing that a catalog can hardly be afforded, and a subject arrangement on any other plan than this is difficult to maintain. Still, it is very essential that there be some means of knowing what duplicates there are on any given subject. By simply penciling the class number on the books and arranging them numerically, it is possible to give this information more quickly and more satisfactorily than by any other method, and at the same time with less expense.

**Charging system.**—Here as elsewhere it serves all ordinary purposes, with special advantages of its own. On the library accounts the character of each person's reading is clearly indicated by the numbers charged, and minutest statistics of circulation in any subject are made by simply counting the call slips in the register or check box, and entering the number against each class in the record. The whereabouts of any book wanted, or the amount of use of any subject, is seen at a glance. This decimal check box can be used in any system. Its

peculiar advantage with this classification is that it always exhibits, correct to the hour, a complete table of all books off the shelves in each subject. The slips in box 53 show just how many and what books are out in Physics; the slips under 823 show all the English novels in circulation, and who have them. Such a table of circulation always at hand, and without an item of expense or labor,—for the check box is necessary as a record of loans,—is highly prized by all interested in the character of books read, and at no time has so much wise attention been given to educating the taste of readers in our public libraries as at the present. To convert this table into permanent statistics involves only the trifling labor of recording as often as desired.

**Subject references.**—In no place are the peculiar advantages felt more than here. Many users of the system are undertaking analyses and cross references to an extent not hitherto thought practicable or hardly possible. These few figures tell as clearly as a long heading exactly what the reference is, while the gain in ease of use is even greater than the time and space saved in recording. The clearness and directness of the method aid wonderfully in this work. References to transactions, or chapters in essays, may be made in the most compact and usable form.

**Recataloging.**—When Amherst College in 1873 adopted the plan, and began to recatalog its library, it was found entirely practicable to make the change to the new system gradually, as means allowed, without interfering in any appreciable degree with the circulation of the books. The methods employed for thus changing without interrupting use must vary according to the different conditions of each case. The essential feature is some distinction between old and new call-numbers, sufficiently marked to be easily recognized by attendants. Since call-numbers ordinarily consist wholly of figures, the initial letter of the Cutter author-numbers furnishes this requisit. All numbers consisting of figures only are then recognized as belonging to the old, and all numbers containing a letter as belonging to the new system.

**Adaptability.**—The system is so flexible that it adapts itself to almost any circumstances. It may be used in almost any one of its applications without the others, and with a proportionate result. It may be applied to pamphlets alone, bringing order out of chaos, and solving this vexatious and vexing problem; or it may be used for the catalogs, leaving the arrangement on the shelves as before; or it may be applied to the shelves, while the catalog is on the dictionary or any other plan, and so on.

**Arabic numerals.**—Arabic numerals can be written and found quicker, and with less danger of confusion or mistake, than any other symbols. Therefore, Roman numerals, capitals and small letters, and similar symbols usually found in systems of classification, are entirely discarded, and by exclusive use of Arabic numerals throughout the shelves,

indexes, catalogs, and records, there is secured the greatest accuracy, economy, and convenience. This advantage is specially prominent in comparison with systems where the name of the author or the title must be written, in calling for or charging books and in making references.

**Endowment of special departments.**—Another great advantage of this plan is its peculiar adaptability to the plan of endowing special departments. One specially interested in any subject can often be induced to endow that subject with a sum, of which the income shall each year buy all the best books that appear on it.

If John Doe is specially interested in the opera, the library says to him: "Give us \$1000 as an endowment of 782, and we will call it the Doe Library of Dramatic Music. There will be found every book, pamphlet, newspaper clipping, or ms. that the library has or can get on this subject. Gifts from others will be placed in the Doe Library, the donor's name being given on the book-plate, and for generations to come every person interested in the opera will be grateful for your foundation." In this way 782 is assigned to John Doe, and his pride is stimulated in developing it. If another man with larger means and interest will endow the whole subject of music 780, there is no difficulty or impropriety in including 782, the Doe Dramatic Music Library as the second section of 780, the Roe Music Library.

This is one of the most promising fields for development, for almost every library has among its readers some specially interested, who if properly approached would endow some topic, even if a small one, and this relative location, with its definite number expressing just the ground covered, may be of great service in working up this plan of special endowments.

**Summary.**—The claims of the system may be summed up as follows: Compared with other systems it is less expensive; more easily understood, remembered, and used; practical rather than theoretical; brief and familiar in its nomenclature; best for arranging pamphlets, sale duplicates, and notes, and for indexing; susceptible of partial and gradual adoption without confusion; more convenient in keeping statistics and checks for books off the shelves; the most satisfactory adaptation of the card catalog principle to the shelves. It requires less space to shelve the books; uses simpler symbols and fewer of them; can be expanded, without limit and without confusion or waste of labor, in both catalogs and on shelves or in catalogs alone; checks more thoroughly and conveniently against mistakes; admits more readily numerous cross references; is unchangeable in its call numbers, and so gives them in all places where needed, as given in no other system; in its index affords an answer to the greatest objection to class catalogs, and is the first satisfactory union of the advantages of the class and dictionary system.



## SUGGESTIONS TO USERS

In referring to tables, hold the book in the right hand and turn with the left, then the class numbers show very plainly on the left margin and reference is greatly expedited. Some prefer to hold the book in the left hand, but in any case the eye should follow the left pages wholly.

## PLAN OF BOOK

**Tables.**—The first page of tables shows the 10 classes into which all topics are divided. The next page, showing the nine divisions of each of the 10 classes, is a bird's-eye view of the whole scheme on a single page. Then follows a synoptic view of 10 pages, one for each class, showing the nine sections of each division of each class.

Following these synopses is the complete classification, which repeats in proper order classes, divisions, and sections, with all their subsections. For the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers, synonymous terms, examples, brief notes, dates, and various catch-words are often added to the main heads. Therefore all references to numbers **should be looked up in the full tables** of subsections, using the summaries when only a synoptic view is wanted.

**Index.**—Next is an alphabetical index of all the heads, referring by class number to the exact place of each in the preceding tables. This Index includes also, as far as found, all synonyms or alternative names for heads, and any other entries that seem likely to help a reader find his subject readily. Tho the user knows just where to turn to his subject in the tables, if he consults the Index, he may be sent also to other allied subjects, where he will find valuable matter which he might otherwise overlook.

**Numeration.**—In thinking or speaking of the class numbers, to avoid confusion **always divide at the decimal point, and name it**; e. g. read 942.27 "nine forty-two, point twenty-seven," never "ninety-four two twenty-seven." If "point" were omitted, the ear might readily interpret 270.2 as 272, while "two seventy, point two" can never be misunderstood.

## USE OF TABLES AND INDEX

**Familiarity with classification.**—Get a general knowledge of the scheme by learning the 10 main classes [you will soon know the 100 divisions also without special study], so that you can tell to what subject a given number belongs from its first figure without referring to the tables. Specific knowledge of minute divisions will come gradually, but rapidly, from use. Using the tables alone, and then always verifying your result by the Index, you will more rapidly acquire knowledge of the classification and facility in its use. To do this, decide first to which of the 10 classes the subject belongs; next, take that class as if

there were no other, and decide to which of its 10 divisions the subject belongs; then, in the same way, select section and subsection, thus running down your topic in its grooves, which become tenfold narrower at each step. As a check against error, use the index freely, even tho familiar with the scheme.

**Subject of a book.**—To find out the subject of a book consult:—

1. **The title**, since it is generally chosen to show what the book is about. But as many titles are misleading, never class from title alone but always examin also

2. **Table of contents**, which is the best guide to the true subject. If there is no table of contents read

3. **Headings of chapters**, or marginal topics.

4. **Preface.**—Unless already certain, glance thru this to catch the author's point of view, and verify impressions gained from title and contents.

5. **Reference books.**—If preceding means fail, consult reliable bibliographies, clast and annotated catalogs, biographical dictionaries, histories of literature, cyclopedias, reviews, etc., for information about the character of the book.

6. **Subject-matter.**—If the five shorter methods above fail, examine the subject-matter of the book itself, and if still in doubt, to avoid mistakes, put aside on an "under consideration" shelf till you can examin more thuroly or consult

7. **Specialists.**—Experts, competent to define their true subject and relation, are usually glad to examin enough to class any new books in their departments. Old ones they know where to put already.

After deciding what the book is about, find this subject in the tables, either thru the Index or by using the tables directly, which for the beginner is a longer process, seldom to be trusted without subsequent reference to the Index; e. g. *Pollock's Land laws* might naturally be clast from the tables alone as "333, Land; ownership; rights; rent," which seems exactly to fit this book. The Index, however, shows two numbers, both referring to land laws, but from different points of view; viz. 347.2, legal, and 333, economic. The object of this book, as seen in the preface, is to give a popular presentation of English statutes pertaining to landholding, not to discuss the history and theory of land laws from the economist's point of view; and it should be clast "347.2, Realty," which might have been mist but for the Index.

**Assigning class numbers.**—1. Practical usefulness is the chief thing. Put each book under the subject to the student of which it is most useful, unless local reasons "attract" it to a place still more useful in your library. See p. 27<sup>o</sup>.

2. The *content* or the real subject of which a book treats, and not the *form* or the accidental wording of the title, determines its place.

Following this rule, put a philosophy of art with Art, not with Philosophy; a history of mathematics with Mathematics, not with History; for philosophy or history is simply the *form* which these books have taken. Their true content or subject is Art or Mathematics, and to the student of these subjects they are most useful.

3. Always remember that the question is not where one would probably look to find a particular book, but under what subject is the book of greatest value; e. g. it is of little consequence whether "one would be apt to look" under 595.1 for *Darwin's Formation of vegetable mould*, but of much consequence that one studying earth-worms should find that book in 595.1 Worms, since it is chiefly valuable as a study of the habits of earth-worms. Any one wanting that special book would look for it in the name catalog under Darwin.

4. Assign every book to the most specific head that will contain it. This will vary in different libraries according to the number of figures used, e. g. the specific head for "compulsory vaccination" is 614.4738; but in a library using only three figures, the most specific number possible is 614, which must take everything on Public health.

A library recently adopted the plan of putting all books of a division together, if they had but few; e. g. all mathematical works were marked 510. It took just as many figures, cost just as much labor in most cases, and, if a man wanted the one calculus in the whole library, he had to search through the 150 volumes in 510, when otherwise he would instantly have found it standing alone as 517. See also "Number of figures in class number," p. 287.

5. The predominant tendency or obvious purpose of a book usually decides its class number at once. Still a book often treats of two or more different subjects. In such cases assign it to the place where it will be most useful, and make references under all subordinate subjects. Give these reference numbers both on book plate and subject card, as well as on reference cards.

It is one of the marked advantages of the plan that these references, notes, etc., may be added from time to time as found convenient. It is necessary at first to find only the predominant tendency of the book in order to classify it. Subject references are added whenever found necessary.

Add these numbers indicating more closely the character of the book as rapidly as possible, and invite all specialists to call the librarian's attention to every desirable subject reference noticed in their reading. These numbers take little room, are easily added, and in most cases are very valuable.

6. If two subjects have distinct page limitations, class under the first, and make analytic reference under the second. But if the second is decidedly more important or much greater in bulk, class under that,

with reference under the first. Always put a book under the first subject, unless there is good reason for entering it under another.

7. Consider not only the scope and tendency of each book, but also the nature and specialties of each library.

Any subject of which a library makes a specialty naturally "attracts" allied subjects. This influence is strongest in minute classification. To admit this variation, many subjects in the present scheme have two or more places, according to these different sides; e. g. a book on "school hygiene," which a medical library puts under 613, has also a place in 371.7, where the educational specialist requires it.

8. If a book treats of a majority of the sections of any division, give it the division number, instead of the most important section number with subject references. Unless some one section is so prominently treated as to warrant placing the book in it, class a book on four or more sections under the division number; e. g. class a volume on light, heat, and sound, under the head most fully discussed, and refer to it from the others; but if it treats also of mechanics, hydrostatics, and pneumatics, class as 530, or general physics, tho no mention be made of electricity, magnetism, or molecular physics.

9. To secure uniformity, make for future reference full notes of all difficulties and decisions; for it is of more importance to put books on the same subject together than to put them in the absolutely correct place.

These notes should be written either on the broad margins of the classification tables, or on an interleaved copy, or on P slips arranged by class numbers, like the class catalog.

10. Keep collected works, libraries, etc., together, and assign like individual books to the most specific head that will contain them; or assign to the most prominent of the various subjects on which they treat, with subject references from the others; or separate and class the parts as independent works.

This last practice constantly grows in favor, and many librarians now largely disregard uniform bindings and "series" lettering, and, unless contents of volumes are so connected that they cannot be separated, class each under the most specific head that will contain it.

11. Class translations, reviews, keys, analyses, answers, and other books about specific books with the original book, as being there most useful.

**Number of figures used in class number.**—Decide this according to circumstances in each library. Small libraries often use the minute subsections beyond three figures only in certain divisions like Travel, 913-919 (where a closer geographical division is needed) and where a fourth figure is necessary in 400 and 800 to separate different languages.

In very small collections two figures might do till growth required further division; but it is economy, and saves handling the books a

#### BUILDING NUMBERS

second time to use at least three figures at first, even in the smallest collection. In larger or rapidly growing libraries all subdivisions may be used for the same reason, tho the number of books may not at the time seem to justify it. Whether there are one or 1,000 books on any topic, they take no more space on the shelves if clast minutely, and the work is done once for all. When large accessions come, even if a century later, this number will not have to be altered. A library having but 20 books on Education might think it unwise to use the full scheme, but the whole 20 would go on a single shelf, and take no more room, and the Index would refer more accurately to what was wanted. The number of books you have on any subject has in this system no special weight. In a relativ location, any number of consecutiv topics without a book waste no space on shelvs or in catalogs. The numbers are merely skipt. This plan not only does no harm, but has the considerable negativ value that looking for the number and finding it blank or skipt, shows that you have nothing on the subject, — a piece of information second in value only to finding something, for one need no longer search.

The practical objection to close classing is that it gives a longer number to charge in a lending library. In a reference library full subsections should be used. Where a short number is imperativ, it is well to give the full class number on another part of the book plate, not to be used in charging, but as a guide to the contents of the book. Thus when the classifier has once examind a book, and found out just what it is about, the record is preservd for the benefit of others.

#### BUILDING NUMBERS

**Geographical divisions.**—In dividing by countries according to the note “Divided like 930–99,” found so often in the tables, add only the number following initial 9, for this 9 means not locality but simply class 9, History; e. g. 942, history of England, analyzd is 9, history, 42, England (4 Europe, 2 England). If geology of England is wanted, add to 55 (the number for geology) 42 (the number for England), and you have 554.2. History of N. Y. state is 974.7, of which 747 is the locality number, and the number for N. Y. state administration, 353.9747, is built up by adding to 353.9 (the number for State administration) 747 (the number for N. Y. state).

**Language and literature.**—In 890, where the direction is to “divide like 490,” note that 890, Minor literatures, and 490, Minor languages, correspond exactly, so that only the figures following 49 are to be added to 89 to build a minor literature number; e. g. Polish language is 491.85; adding 185 to 89, Minor literatures, gives 891.85 Polish literature. In brief, to form literature from philology numbers substitute 8

in place of the first figure 4; e. g. Sanskrit language 491.2, Sanskrit literature 891.2.

If the direction is to "divide like the main classification," as in 016, the number for the required subject is added exactly as it stands in the tables; e. g. bibliography of Polish poetry, 016.891851.

Combining numbers in a way not printed in the tables must be done with great care or confusion results. Many users, fascinated with the possibilities of the system, make combinations more ingenious than useful; e. g. "the horse's foot and how to shoe it" was recently marked 636.1682, i. e. the blacksmithing number, 682, being added to the horse number, 636.1, making a very long, useless number. Horse-shoeing is now added to the tables as 682.1. Often it seems well to the classifier to add a figure to show some distinction. It is short and desirable, but later he may find he has shut himself off from using some other division which he would greatly prefer. Every added figure must be clearly written in the tables and index, for no man's memory can be trusted. See 9, p. 28; and Cautions, p. 31.

#### BOOK NUMBERS

**Author numbers.**—The invention of translation systems by which a name is represented by its initial with the rest translated into numbers, — e. g. Freeman, F 87,—has led most libraries to arrange books under each class number alphabetically by authors, or in local history by towns, or in biography by biographers. This keeps all works by the same author together, and in large classes enables one to find any book readily without consulting catalogs. One great advantage is that the same author has the same book number in every subject; i. e. the figures are significant like our class numbers, and translate themselves into the name. Great practical mnemonic convenience results from this peculiar form of book number. By far the most widely used of these translation systems is that of the Boston Athenæum, devised by the librarian, C. A. Cutter, and known as the Cutter numbers.

**Time numbers.**—A second arrangement of books under class numbers is chronological by dates of first publication. Its advantage is in presenting the historical development of the subject, the book written earliest being on the left, the latest work on the right, and then of any given book it is evident that all those on the left were written before it, all those on the right after it. In science this has special value, while in literature the author arrangement is better. A translation system of dates devised by W. S. Biscoe, makes the numbering of the year more compact and satisfactory than to write the date in full.<sup>1</sup>

<sup>1</sup> For full explanations and table of Biscoe numbers see p. 789-90

**Accession order.**— A third arrangement — simpler but otherwise less desirable — is in order of accession; the first book in a class being 1, the second 2, the third 3.

It is entirely practicable to use two or even all three of these methods at the same time in the same library, one peculiarity of the system being the ease with which it may be adapted to almost any special circumstances. In fact, we use the chronological system in science where its advantages are most marked; the alphabetical system in literature where authors' names outrank dates; the old accession-order plan in special collections, which must be kept separate, and are no longer added to, since here the extreme simplicity of the 1, 2, 3 order is secured without any sacrifice. It is still better, if this last method is used, to number A, B, C, instead of 1, 2, 3, as 26 instead of nine books may be marked with one character, and chiefly, as it is highly desirable that each book number should begin with a letter which cannot be mistaken for the end of a class number, if the two are written on one line; e. g. the first book under 513, if numbered 1, might be so written as to confuse with subsection 513.1, but 513A could not be misinterpreted. If figures are used, care must be taken to write them as a fraction or with a mark of separation; e. g.  $5\frac{13}{1}$  or 513-1.

### VARIATIONS PRACTICABLE IN ADJUSTING TO SPECIAL LOCAL REQUIREMENTS

Some users assume that adoption of the Decimal Classification and Relativ Index carries with it other parts of the system which the author has used at Amherst, Wellesley, or Columbia colleges or in the New York State Library. In fact, the plan in each of these libraries differs somewhat from all the others, and many of the 200 public and private libraries now using the plan have adopted still other variations; for the special constituency, circumstances, and resources of each library must be considered in deciding what is best for it. This decision should be made by one familiar, not only with the library and its needs, but also with all methods of any merit and the comparative ease and cost of introducing them into any given library.

**Cautions.**— Having decided to adopt the system in its decimal form as worked out and printed, it must be determined whether to adopt certain variations, noted in 1-5 below as practicable, and in some cases useful and desirable. The inexperienced user is very likely to feel entirely competent, after once reading the tables (in fact, without reading more than a single page regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations), to institute a series of "improvements." Experience proves that nothing could be more disastrous. It seems a simple

matter to put a topic a line higher or lower, but in some cases this may affect over 100 different entries in the Index, and there is no possible way to be sure of correcting them except by examining each one of the 20,000 heads. Frequently proposed changes, carefully studied out and submitted as improvements, are shown by our old records to have been adopted and used in the exact form proposed till considerations which had not been foreseen forced us to change to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement without consulting the voluminous records of previous experiments.

Those who have used the system longest have been misled into adopting changes which on trial they were compelled to reject, going back to the original form at the cost and confusion of two changes. In so apparently simple a thing as introducing subdivisions on blank numbers, mistakes have often been made; and after it was too late to correct them the makers have regretted their neglect to consult the author and secure the advice and coöperation of those most familiar with the manifold inter-relations. Even were the independent divisions equally good, their numbers do not agree with those which will be put in the printed tables and index, so that every copy of the printed scheme will have to be corrected in ms. before it is usable in that library. The only safe rule is to make no changes or subdivisions without submitting them to the author, who will gladly advise on such matters without charge, not on the ground of any superior wisdom, nor even because of larger experience in this special work, but because in this way only can it be learned if numbers have been already assigned with different meanings.

The user who adopts the printed form avoids the criticism sure to be aimed at any possible scheme. The moment he makes one "improvement" he must defend all the heads or alter them to suit each critic. Much time is saved by saying that the scheme is used as printed, and blunders are the author's, not the user's. A list of changes that have been made by others without such consultation was written for this note, but is omitted lest it should seem invidious. They illustrate how easy it is for able men to make what no one questions after explanation to have been outright blunders, in improving and adding to the printed scheme. The author is always grateful for suggestions from any one, and, having already given so much time in the effort to improve this system for the common good of all users, he invites the coöperation of those interested in completing needed subdivisions and eliminating any errors that may remain either in tables or index.

The following brief notes show the most important variations found practicable in the "relativ index system," oftener called the "Dewey system." For its essentials see p. 8<sup>7</sup>-9.



1. **Letter notations for changes.**—To protect other users from confusion, the publishers insist, as the copyright entitles them to, that our numbers shall not be printed with changed meanings without some clear indication of the fact in the number itself. If the reasons that led us to adopt the form printed are not conclusiv to another, we wish to remove any obstacles to his use of the system with such changes as shall satisfy him. This can be readily done by using a letter, or some other character than the 10 digits, to mark changes; e. g., if you wish a different set of subdivisions under any number, make it out to suit, and number it a, b, c, etc. It will arrange in its exact place and exact order without difficulty, and no other user of the system will be confused by the numbers. In the index, cancel the 1, 2, 3, etc., you have discarded, and write in the a, b, c, etc., adopted. **Whenever you use our exact numbers, use also our meanings for them as index.** When you add any features of your own, add new numbers of your own that cannot be mistaken for ours, using, of course, as many of our figures as are not changed; e. g., if you want a new heading next to 551.34, Icebergs, it cannot properly go as decimal 1. Mark it 551.34a, and it arranges as wish. If you wish to change a head from one place to another, cancel it where it stands, and *leave that number blank* in the tables. Then insert the head in its new place as above, as if it had never been in the tables.

This plan of introducing letters or other symbols wherever each user pleases, will give all needed freedom to the personal equation and desire for originality, and meets all real wants for peculiar classification in peculiar cases.

**Fiction and juvenils.**—In some cases it is usually best to modify class numbers by letters as above. In popular libraries half of the circulation is often in fiction. A great saving is effected here by omitting the class number entirely and using merely the book number, it being understood that *no* class number means fiction. After fiction, their great circulation makes juvenils a good place to economize, if they are kept separate, as is usually thought desirable in popular libraries. The books are clast exactly as if for adults, then a J is prefix to show their special character. This gives J alone as the class number for juvenil fiction, and e. g., J942, for a child's history of England. These are arranged in a parallel library by themselves, so that J942 comes between J941, juvenil history of Scotland, and J943, juvenil history of Germany.

If at any time it seems desirable to abandon the separate J library, it can be done, without altering a number, by distributing the J books among the regular classes, either ignoring the J entirely, or preferably by putting all the J books by themselves at the end of each class number.

There are thus three methods: 1, to have a separate J library; 2, to have the J books by themselves at the end of each class number; 3,

to have the J books in alphabetical order among other books on the same subject. In this last case the J is useful only to call attention plainly to their juvenil character.

The same marking is used for all these plans, and one can be changed into the other by simply distributing the books the other way, and telling the attendants that it has been done. Juvenil books go with adult books of the same class, unless a special J library is made, containing all juvenils.

**Biografy.**—A similar plan is recommended for this large class, as to the best treatment of which there is great difference of opinion.

Beside the plan printed in the tables, two others are recommended, viz. ; to put all biografies in one alfabet of names of *persons written about*, marking all the books simply B for class number, and indicating the subject or biografee by a Cutter book number ; e. g. life of Grant, B G76. This is most compact for charging, and is preferd in popular libraries of large circulation.

The third plan is to distribute biografy as far as possible to the subjects it illustrates, leaving, of course, under 920 lives not bearing specially on any subject ; e. g. all lives of musicians go under 780 and its subdivisions, the life of Wagner being 782.2 instead of 927.82 as in the tables. Even in this arrangement it is better to indicate that it is biografy, putting B in place of the biografy figures 92 ; i. e. mark Wagner's life B782.2 (927.822). Then it arranges either with 782.2 or with biografy, as preferd, thus giving exactly the arrangement of the printed classification without changing a figure.

**Travel.**—By using T instead of B, the same principle gives a brief call number for the largely circulated class, description and travel.

**Parallel libraries.**—This treatment of fiction, juvenils, and biografy illustrates the principle. Its other chief application is for language collections. Some libraries have a constituency not reading English, and so need a parallel library in German, or Swedish, or French, etc. This is most easily made by simply prefixing an initial to the class number. If to be arranged, as with us, in one series of subjects, this may be ignored, or all German books on each subject may be groupd under G at the end of each class number. The German parallel library is made by simply putting all G's together and arranging by class numbers. The initials used are G, German, F, French, I, Italian, Sp, Spanish, Sw, Swedish, Dn, Danish, Du, Dutch, N, Norwegian, R, Russian, W, Welsh, A, Arabic, etc. Where only one language is so markt in a given library, only one letter should be used, so as to avoid an extra letter in charging ; e. g. S will answer either for Spanish or Swedish if used in only one sense. This plan has proved very satisfactory in actual use.

**Combining language and literature.**—The same principle can be applied also in combining each language with its literature, if it is

preferred to abolish the class, Philology, and make it simply an appendix to Literature; and the reverse would hold true if a philologist wisht to abolish Literature and make it an appendix to Philology; e. g. using 82p for English philology, and adding philology subdivisions, English dictionaries would become 82p3, English grammars 82p5, etc., and arrange either just before (or just after) English literature, 82o, 821, etc. For a better plan see Broken order, p. 36<sup>7</sup>-37<sup>4</sup>.

**Reference library.**—To separate books most needed, the best plan is to mark R before class numbers, and arrange the books together, as an R library. When the books are to go into the general collection again, a line can be drawn thru this letter. In the same way it often happens that a general private library is given on condition that it be kept together; e. g. the Phœnix library of Columbia College. This has P prefix to the class number, and thus is a parallel library by itself. An initial is better in such cases than a \* or similar mark, since the initial helps the memory and is just as brief. The same plan applies of course if the library has an "inferno" for books not used without permits, or more distant rooms where books worth keeping but seldom called for can be arranged in a parallel storage library.

Still another provision is made in o8o, 8 being the regular number for general collections (as in 5o8, 52o.8, etc.), for these special libraries which cannot be separated because of binding or conditions of gift. But instead of the three figures in o8o, a single letter, as described above, indicates the special collection, and it is easy to learn the location of the few special collections of any one library. Omission of initial o in the class "General works" was formerly recommended; e. g. 51 instead of o51 for an American periodical. But this usage is no longer advised, for the eye gets so in the habit of reading as *Science* any number beginning with 5, that there is a little mental hitch if, e. g., general periodicals are written 51, etc., instead of o51, etc.

Another reason is that the one and two figure numbers 1-99 are thus left available, and can be assignd to special use without confusion with tables or Index, for initial o is there printed for all numbers before 100. Yet in classification it sometimes happens that the first two figures are obvious at a glance, but time must be taken to determine the third. It is convenient to write these first figures, but if a mathematical book receives its first two figures (51), this unfinished number is liable to be confused with the two-figure number 51. This danger may be largely avoided by writing the decimal point after a blank; e. g. 51 ., to show that a figure is omitted.

2. **Contractions for specialists.**—The system is often used by specialists for very minute work when the decimals are run out to six or eight places. While the theory is better to write all these figures, thus showing the relation to the universe of knowledge, there is no

practical gain to justify the labor if a great quantity of slips must be numbered. A specialist working on "Swedish poetry of the age of Gustavus" can use a single letter instead of the full 839.715 and save five characters in numbering each note; or a dash may be written for all but the last figure, thus "—5". A body of such notes can be inserted together in their place in an index at 839.715, with a colored card to mark the special groups, with little danger of confusion. Still many prefer the theoretical completeness of writing a full index number for every separate slip.

3. Use of alfabet or chronology for final subdivisions.—While our plan is decimal as distinguished from the "dictionary system," we never hesitate to use the alfabet wherever that is more useful. Indeed, the main feature of our plan is its alphabetical index. Frequently in minute divisions it is economy to arrange alphabetically or by dates without using a translation system. This is specially true in index rerums and notes of specialists. After numbers have been used as far as that is the most useful form, then either the name chosen for the head or the year can be inserted at the end; e. g. towns in a given state, individual birds or insects coming under one number, names of men written about in biography, etc. Some may prefer to adopt this plan in places where we have chosen a grouping; e. g. in chemistry, to put all the metals in one alfabet under 546.3, instead of using the numbers 546.3-99. If this change is wished, a more complete one will probably be better; viz. to put all the elements, non-metallic and metallic, in one alfabet under 546. Such use of the alfabet causes no confusion with the index, as it is simply subdividing more closely, unless, as in the last case (546.3), the alfabet replaces heads already printed. In this case, cancel all subsections in the tables by drawing a line obliquely thru the heads discarded, and mark in the margin "arranged alphabetically by elements," e. g. :—

546.3

**Metals.****Arrange metals alphabetically.**

<del>.31</del>	<del>Alkali group.</del>
<del>.32</del>	<del>Potassium.</del>
<del>.33</del>	<del>Sodium.</del>
<del>.33</del>	<del>Lithium.</del>
<del>.34</del>	<del>Rubidium.</del>
<del>.35</del>	<del>Caesium.</del>

Then find each of these heads in the index and cancel all figures after 546.3, e. g. :—

Potassium, inorganic chemistry, 546.3~~2~~  
 Rubidium, " " 546.3~~5~~

This plan has special value in this place, as new elements are discovered from time to time, and can readily be inserted in alphabetical place. Still many chemists think it valuable to have similar metals grouped together for convenience of study, and to cover books written on the group as a whole, and also think it important to have a number

for rejected elements, because the literature and references about them remain, and must be provided for. The insertion of new elements is provided for, as explained on p. 14<sup>4</sup>.

4. **Broken order.**—Another common and often desirable variation for shelf arrangement is to break the sequence of the numbers, in order to get books most used nearest the delivery desk. The theory is to keep the whole 1000 numbers in strict sequence; but a higher rule to be obeyed everywhere is to sacrifice any theory for a substantial gain. Practically it will seldom happen that it is not best to break the order of the classes. Often divisions are best arranged out of numerical place; e. g. 520 Astronomy may be wanted in a room accessible at night; fiction, juvenils, and biography are always wanted near the delivery desk in a public library, and in strict order are as likely to come at the most distant point. Numberless local reasons may make a broken order desirable. There need be no hesitation in adopting it if enough is gained, but there should be charts clearly showing where each division starts; e. g. after 430 "Preceding 830;" after 520 "In observatory," it being necessary to specify room for books entirely removed from the general library arrangement. The page of 100 divisions is reprinted by the publishers, on cards with wide margins, for just this use. Opposit each division is marked its beginning on the shelves, and it is easy to vary the order as much as necessary, tho of course the nearer the divisions run in regular order 1 to 99, the easier it is for a stranger to find his way about. Variations in the order of the sections are less wise and seldom necessary. If made, a wood or card-board dummy in the regular place should have mark on its side the present location of the section removed.

This broken-order plan is best for bringing together the philology and literature of each language without altering numbers or prefixing any letter. Let 420 be shelvd just ahead of 820, 430 ahead of 830, and so for all languages, making the general note that all 400's are shelvd just ahead of the corresponding 800's, and remembering that after the main languages four or more figures are required to indicate language alone, so that Portuguese philology goes between 868 and 869, Russian between 891.69 and 891.7, and Welsh between 891.65 and 891.66.

5. **Pro and con division of topics.**—It is very useful in many cases to separate the books on a topic with strongly marked sides, so that either set of views and arguments may be seen by itself. This has been done by subdivision in some cases,—e. g. 337, Protection and Free trade. In others it is equally useful, and can be indicated by an added mark,—e. g. 324.3, Woman suffrage. The number may be used for general works, giving facts, etc., and advocates and opponents may be separated by + and — for positiv and negativ, or by p and c, the initials for pro and con, which tho short, are too long for a circulat-

ing library to charge. In reference libraries, on cards, etc., most will prefer to write out *pro* and *con*, to distinguish the two groups. The order on the shelves is, of course, alphabetical, viz. 324.3, 324.3c, 324.3p; or if + and — are used, the usual order is followed: +, —.

These five notes suggest the range of variations that may be made in the Decimal Classification and illustrate its adaptability to widely different conditions. For book numbers which decide the order of material after it is grouped into its final classes, see page 30.

### OTHER USES

Tho the system was devised for library catalog and shelf arrangement, 17 years have developed many new applications. Nearly every administrative department feels directly the great economy, and in every field of literary activity this classification has been found a labor-saving tool, whose practical usefulness has exceeded the most sanguine hopes of its early friends.

**Bookstores.**—The plan is a great convenience to both dealers and customers, when applied to the miscellaneous stock of a bookstore. Very often a much wanted book, specially if not recently published, is reported "not in stock," when such an arrangement by subjects would have revealed its place at once. Specialists often find on the shelves books that they would never have ordered, but are glad to buy after examination. Experience proves it a profitable thing for a dealer to arrange his books so that each person may find those in which he is interested without examining the entire stock.

**Scrap-books.**—The plan has proved of great service in preserving newspaper clippings. Scrap-sheets of uniform size are used, with the class number of the subject written in the upper corner of the front edge of the page, and clippings are mounted on the sheet as in a common scrap-book. When one sheet is full, another is inserted at the exact place. Thus perfect classification is kept up without blank sheets, and at the smallest outlay of money and trouble. This "L. B. Scrap Book" is for most persons the best form. These sheets are then arranged numerically like the subject card catalog, the sheets of each class being farther arranged, when desirable, under alphabetic subheads. Scraps thus mounted are shelved either in manila pamphlet cases or in patent binders.

**Index rerums.**—These are best made on the standard P size (7.5 x 12.5 cm.), card or slip. Long study and experience prove that the stock "L200" is best for private indexes, etc. It costs only half as much as the "Br. 400," which is largely used for public library catalogs, takes only half the room, and gives great satisfaction. The class number is written in the upper left-hand corner, any alphabetic subject head follows at the right, and notes fill the card below. The cards are then filed in order of class numbers like the subject card catalog,

the cards of each class being further arranged, as in case of the scrap sheets, according to any alphabetical subheads. Scores of devices for convenient handling and storage of these slips and of scrap sheets and pamphlets are already manufactured. Details cannot be given here, but may be found in the full descriptive and illustrated catalog of the Library Bureau, 43 Federal street, Boston.

Another admirable form is similar to the L. B. Scrap Book or shelf list; in fact, is simply a shelf list without the printed headings and down lines. The subject number goes in the upper corner, and all notes on that subject are written on the sheet below. This book fits an ordinary shelf, has the advantage of a full letter page in sight at once, and holds over five times as much as the P card. Of course the system can be applied to slips or sheets of any size, but there are literally hundreds of accessories and conveniences exactly adapted to these two sizes, which are used tenfold more than all others combined; so it is folly for one to begin on another size, and lose the advantages of this uniformity. If intermediate sizes must be had, the ones most used and least objectionable are Billet 10 x 15 cm., Note 12½ x 20 cm., and Ms. 15 x 25 cm. There are repeated cases where users of some other size have finally found it profitable to change to either the P, 7½ x 12½, or to the L, 20 x 25 cm., even at the cost of re-writing many notes.

Note books are best in this last described form. The much poorer method is to take a bound blank book, and assign the class numbers in order, giving about the space it is thought each will require, and, when the pages so assigned are full, note at the bottom where the rest of the material may be found.

This has all the objections of the old fixed location as compared to the relative, and will hardly be adopted by any person who has ever seen the simplicity and economy of the shelf-list system.

**Topical indexes.**—The class numbers are used in indexing books read, usually by making the entries in the Index Rerum under proper numbers. The number takes the place of a series of words, and the results can be handled, arranged, and found much quicker because of the simple numerals.

The advantages that the system possesses for making topical indexes of collected works, periodicals, transactions, etc., will be evident to every librarian. These consolidated indexes may be arranged together with the card catalog of the books, or by themselves, as seems best in each case.

It would exceed the limits of this brief description to notice all the varied applications of the system. Enough have been mentioned to show its wide adaptability to the wants of the librarian and the student.

Too much elaborated and in some points altered, the essential character of the plan has remained unchanged from the first. Doubtless

other improvements are still possible, and users of the scheme are invited to suggest any needed new heads, and to note any omission to be supplied in the Subject Index.

In this brief account the author has probably failed to meet some objections which may be raised, and which he could easily answer. He therefore asks the privilege of replying personally to any such objections, where they arise, believing that it will be possible to answer, if not all, at least a very large proportion.

The labor involved in preparing the Classification and Index has been wholly beyond the appreciation of any who have never attempted a similar task. Much valuable aid has been rendered in many departments by specialists, over 100 of whom have assisted in developing the scheme. Among these are many well-known scholars, and to all a most cordial acknowledgment is made. Without such assistance, the present edition could not have been made, for many minds were necessary to supply the technical and special learning absolutely necessary in filling the minute heads. Indeed, in many subjects the author's share in the work has been limited to the modification necessary for technical adjustment to his scheme of the material prepared by specialists. To many prominent librarians the author is indebted for valuable suggestions and appreciative criticism. While these friends are in no way responsible for any remaining imperfections, they should have credit for many improvements in the scheme made in these 17 years of revision, during the first three of which it was kept in manuscript, in order that its many details might be subjected to actual trial, and modified where improvement was found possible.

In all the work from its first publication to the present, the most extended and valued assistance has come from my college classmate, associate, and friend, Walter Stanley Biscoe, my first assistant in Amherst College Library, in the charge of which he succeeded me, resigning to accept again in 1883 the place next me in the Columbia College Library, and again resigning in 1889 to become Librarian in charge of Classification and Catalogs in the New York State Library. Of the rare unselfishness with which he has given time taken from rest and recreation to advancing work in which he shared my interest, this book is the best witness.

In his varied reading, correspondence, and conversation on the subject, the author has doubtless received suggestions and gained ideas which it is now impossible for him specifically to acknowledge. The *Nuovo sistema di catalogo bibliografico generale* of Natale Battezzati, of Milan, adopted by the Italian publishers in 1871, though he has copied nothing from it, more than any other single system stimulated the author's study of the problem. The plan of the St Louis Public School Library and that of the Apprentices' Library of New York, which in some respects resemble his own, were not seen till all the essential



features were decided on, tho not given to the public. In filling the nine classes of the scheme, the inverted Baconian arrangement of the St Louis Library has been followd. The author has no desire to claim original invention for any part of his system where another has been before him, and would most gladly make specific acknowledgment of every aid and suggestion were it in his power to do so.

With these general explanations and acknowledgments he submits the scheme, which has cost so much time and strength, with the hope that it may prove as useful to others as it has to himself. It is a little book, but it came not forth except by grievous labor.

MELVIL DEWEY

NEW YORK STATE LIBRARY  
Dec. 25, 1890

The previous editions have been dated Amherst College Library, June 10, 1876; Columbia College Library, Aug. 10, 1885; and Columbia College Library, Aug. 30, 1888.

#### EDITION 7

The complete revision in progress involvs many new interrelations. As extensiv advance testing of new schemes is impracticable, it is expected that practical application will develop unnotist faults. Classifiers are therefore requested to use the new tables critically and report defects of any kind, with proposed remedies and any additional needed subdivisions. All such criticisms are a decided help and regarded as a favor.

**Minuteness** Minute as are many subdivisions, there are none that some have not askt for and almost none that others have not declared needless. Since the degree to which any scheme shall be applied is optional with each classifier and close analysis is useful to everyone in defining content or in clarifying differences between related subjects, even the most elaborate schemes are printed in full if no essential objection has been brought against them by the best qualified critics. Note type is used for topics clearly useful only to specialists or as showing scope. Many others probably belonging in the same category are in the regular type of their grade, if doubtful.

**Basis of revision** After study of all other available systems the *Decimal classification* was adopted in 1895 by the newly organized Institut International de Bibliographie as best adapted to its projected universal subject bibliografy to cover ultimately all subjects in all languages thruout all periods of the world's history.

## DECIMAL CLASSIFICATION

Determining factors were:

- 1 The *Decimal classification* was a classification of topics independent of the language or exact synonym by which they were expressed.
- 2 Its notation was in itself the only international language, since it consisted solely of arabic numerals.
- 3 Its decimal principle allowed indefinite intercalation.

Overdetailed as the classification already seemed to many librarians, lack of subdivision was the Institute's first difficulty and its promoters urged the author at once to enlarge the tables. State library duties at that time made concentration on the classification impossible, but cooperation and criticism were promised if the Institute would draft the required extensions. When its remarkably rapid work precluded even adequate criticism, it was authorized to publish its tables and assured that the American revision would vary from them as little as practicable.

Obviously bibliographic and general library use are so different that in some cases what is clearly best for the real needs of the scholarly specialist, where any symbols can be used on index cards, would be quite impracticable for a public library, which must have symbols that can be gilded on the back of books, readily used by the unskilled public in writing call slips, and rapidly handled by low-priced runners and young clerks. Where differences occur between the Institute tables and the 7th edition of the *Decimal classification*, many have been agreed to by the Institute and will appear as here given in its future editions, others are the result of serious objections made to the Institute classification, but with the expectation that agreement will soon be reached, as it is the purpose of both Institute and author to harmonize the few divergencies as rapidly as possible.

**Changed numbers** Changes are fewer than anticipated and will be given in detail in the 'List of corrections, changes and minor additions' soon to be mailed to all recorded owners of earlier editions. In many cases the changes are only a broadening of terms to meet later developments. Numbers where any change thus far occurs are:

021.1	374.2-4	621.34 <i>vacant</i>
.6-7	.7-9	.62-63
339	375.01-04	.88
371.46 <i>vacant</i>	378.1	.91
.6-63	.99	.94
.67-68	541.1 <i>vacant</i>	.99 <i>vacant</i>
.91-97	.3	642
372.1 <i>vacant</i>	543.8-9	643
.8	620.1	647

**Separates** There is growing use by specialists who wish very detailed tables of their subjects, but only so much else as will show the perspective of these subjects in the general scheme and provide for broad classification of other material on the same plan. As fast as demand will cover expenses, any subject that has been elaborated will be published separately with general explanation, directions for use, 3 figure tables for other subjects, and full index: e. g. normal school libraries specializing on education will want the elaborate new 370 scheme but may not need to carry classification of other subjects beyond 3 figures; electric engineers may have no use for 370, but will need all details of 621.3 with only 3 figures for other subjects.

**Bibliographic modifications** The Institut International de Bibliographie has devised and uses ingenious symbols, expressing almost any interrelations and greatly increasing numbering capacity. But unfortunately these new symbols are thought by many to be too complex for ordinary shelf or catalog use, though 10 years use by the Institute with unskilled clerks has proved that this objection is more a fear than the result of fair trial. They are given here broadly for personal notes of specialists and other close classifiers, to whom their vast practical advantages will strongly appeal, and as a key to the notation of the Institute's bibliographic cards. Elaborate details and explanations are in the *Classification décimale*, Brussels, 1905. Obviously these symbols allow subdivision of the same number in many different ways without confusion.

**1 Accretion sign +** This is the simplest of all the symbols and indicates exactly what it suggests, that the article so numbered treats of all the subject numbers connected by +; e. g. 637+614.32 a work concerning dairies and inspection of dairy products.

**2 Coupling sign -** This is used for coupling to a subject a series of subdivisions belonging to another number, but only where notes in the tables allow it, as confusion would otherwise result. As this is our sign for "to and including," use of it in the Institute sense requires substitution of "to" for it in our sense.

**3 Relation sign :** This is the most useful symbol of all, as it involves no change of number except omission of final 0 by those preferring the shortest form. It indicates merely that the subjects so connected are considered in relation to each other, thus affording means of expressing almost limitless interrelations: e. g. ethics in relation to fine arts is 17:7 (or in full 170:700). Vice versa, art in its ethical aspect is 7:17; the order of the numbers before and after the colon being dependent on emphasis or on subject with which they are to be arranged.

**4 Form sign (o)** Form or generalities are expressed by a parenthetic number beginning with o. This is farther subdivided as follows:  
(o.) Form symbol: e. g. 335 (o:843) means Socialism treated in the form of a French novel.

(00) Subdivisions peculiar to a subject; e. g. for history it means sources. It is farther subdivided and in some cases modified by a hyphen figure; e. g. 9(44)(001-3) means *Catalog of official sources of French history*, (001) meaning official sources and -3 meaning catalogs, indexes, lists, etc. (01)-(09) are the same as our regular form numbers 01-09. Obviously we can not replace our long established simple form numbers by something so much more complex that it is impracticable for shelf use.

**5 Universality sign  $\infty$**  The mathematical sign of infinity is used with any combination of symbols to mean 'Without limitation as to the idea expressed by that symbol.' With place symbol (see 6 below) it means 'including all places': e. g. 9( $\infty$ ) History of all countries; 9( $\infty$ ) " $\infty$ " Universal history covering all periods (see 8 below).

**6 Place sign (3)-(9)** These replace our regular country subdivisions found in 930-999, but do not conflict, as the Institute merely leaves DC 930-999 vacant, and writes History of France 9(44) instead of 944. Other auxiliary place numbers indicating general region, direction, geologic place, time, etc. are also provided in place curves.

**7 Language sign =** This sign preceding language numbers as found in 400 Philology, indicates subdivision by language; e. g. 398.4=9162 means Fairy tales in Irish, 91.62 being the philology number for Irish language in 400.

**8 Time sign " "** Numbers denoting time subdivision are written in quotation marks. The Institute scheme gives an elaborate system of time subdivisions.

**9 General points of view sign 00** Each of the following numbers for point of view has also a series of subdivisions:

- 001 Speculative: idea, purpose, plan, etc.
- 002 Realization: execution, construction, etc.
- 003 Economic: industrial production, cost and sale prices, etc.
- 004 Service and use: workings, administration
- 005 Equipment and apparatus
- 006 Buildings and establishments: details of organization and service
- 007 Special personnel

**10 A to Z** alphabetic arrangement by name of person, place or thing is indicated according to circumstances by initial or whole name.

Sequence of these symbols in the class number may be varied by users to produce any special arrangement desired, but unless distinct notice of this is given, the sequence is arbitrary in the following order

(0) " " = : - A-Z

e. g. 91(44)(03)=2 Dictionary of French geography in English.

**Index** The relativ index is greatly enlarged both by heds from new tables and by many new references to tables not yet revized, and is consolidated into a single alfabet. It aims as heretofore to include every synonym likely to be sought of subjects exprest or implied in the tables. Insted however of repeating all entries under each synonym as before, it repeats only when there are less than 3 entries; but to save space when more than 3, it gives them as a rule only once and refers from other spellings or synonyms to the one chosen; e. g. Scepticism *see* Skepticism, Refuse *see* Wastes.

**Acknowledgments** Our greatest indettedness is to the Institut International de Bibliographie for its great volume of valuable work, covering almost the whole range of subjects, which forms the basis of our revision, and also for its advice and criticism during the progress of our work. Among the many friends to whose critical examination and suggestions the makers and users of the *Decimal classification* owe many improvements, preeminent are: R P Bigelow, librarian of Massachusetts Institute of Technology; Dr C V R Bumstead of Newark; Prof. E P Cubberly (Stanford); Prof. Charles DeGarmo (Cornell); Dr John B Roxby of Philadelphia; Prof. E L Thorndike (Columbia); the West Point military academy librarian, Dr Edward S Holden, and faculty; and Captain John Clark Wilson, U S navy.

We are indetted for much valuable constructiv work as well as criticism to C W Andrews of the Crerar library and his staff; Dr Herbert Haviland Field of the Concilium Bibliographicum; Godfrey Dewey and Sidney L Wood in engineering; New York state library, specially to Walter S Biscoe, whose criticism is most valued of all; Professors L P Breckenridge (Sheffield scientific school) and G A Goodenough (University of Illinois); and to A L Vöge of the Concilium Bibliographicum for his untiring and resourceful aid on the technical subjects in this edition and on others not yet completed. The Library of Congress classifications and subject hedings freely placed at our disposal by Dr Herbert Putnam have been most useful in suggesting many additions to the index.

Except a year in charge of classification in the Osterhout library, Miss May Seymour has been with me for 24 years, since she entered the first Library school class in 1887. At the New York state library, classification was her department till she was promoted to director's assistant. For the past 22 years every item of work on the new editions has past thru her hands. Her responsibilities as managing editor of the *A L A catalog* of necessity precluded work on the Classification for several years. For this edition she has done all the editorial and much constructiv work, has secured expert cooperation, cald attention to faults or omissions and sought the best available compromizes where doctors disagreed. This supervision will continue, so that future editions will

DECIMAL CLASSIFICATION

benefit by the cumulative experience of the same editor. To this vast labor she devotes rare scholarly industry and a loyalty for which no words of thanks can be adequate. She shares my faith in the immense usefulness of the completed work, is doing nearly all the hardest work and deserves the gratitude of all who profit by this invaluable laborsaver.

MELVIL DEWEY

Lake Placid Club N Y

10 April 1911

EDITION 8

Edition 7 was exhausted a year and a half sooner than expected, thus forcing an unexpectedly early issue of Edition 8. This contains expansions of 320, 331, 369, 623.8, 624, 625, 629, 630, 971, 979.4, many new notes and index entries.

Many other additions already well advanced will be included in Edition 9, on which active work will be steadily continued.

MELVIL DEWEY

Lake Placid Club

10 April 1913

## INDEX TO INTRODUCTION

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C D means *Classification décimale*, the enlarged French translation of D C.

I I B means Institut International de Bibliographie.

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FIRST SUMMARY

**CLASSES**

- 0 **General works**
- 1 **Philosophy**
- 2 **Religion**
- 3 **Sociology**
- 4 **Philology**
- 5 **Natural science**
- 6 **Useful arts**
- 7 **Fine arts**
- 8 **Literature**
- 9 **History**

## DIVISIONS

000	General works	500	Natural science
010	Bibliografy	510	Mathematics
020	Library economy	520	Astronomy
030	General cyclopedias	530	Physics
040	General collections	540	Chemistry
050	General periodicals	550	Geology
060	General societies Museums	560	Paleontology
070	Journalism Newspapers	570	Biology
080	Special libraries Polygrafy	580	Botany
090	Book rarities	590	Zoology
100	Philosofy	600	Useful arts
110	Metaphysics	610	Medicin
120	Special metaphysical topics	620	Engineering
130	Mind and body	630	Agriculture
140	Philosofic systems	640	Domestic economy
150	Mental faculties Psychology	650	Communication Commerce
160	Logic Dialectics	660	Chemic technology
170	Ethics	670	Manufactures
180	Ancient filosofers	680	Mechanic trades
190	Modern filosofers	690	Bilding
200	Religion	700	Fine arts
210	Natural theology	710	Landscape gardening
220	Bible	720	Architecture
230	Doctrinal Dogmatics Theology	730	Sculpture
240	Devotional Practical	740	Drawing Decoration Design
250	Homiletic Pastoral Parochial	750	Painting
260	Church Institutions Work	760	Engraving
270	Religious history	770	Photografy
280	Christian churches and sects	780	Music
290	Ethnic Nonchristian	790	Amusements
300	Sociology	800	Literature
310	Statistics	810	American
320	Political science	820	English
330	Political economy	830	German
340	Law	840	French
350	Administration	850	Italian
360	Associations and institutions	860	Spanish
370	Education	870	Latin
380	Commerce Communication	880	Greek
390	Customs Costumes Folklore	890	Minor languages
400	Philology	900	History
410	Comparativ	910	Geografy and travels
420	English	920	Biografy
430	German	930	Ancient history
440	French	940	Europe
450	Italian	950	Asia
460	Spanish	960	Africa
470	Latin	970	North America
480	Greek	980	South America
490	Minor languages	990	Oceanica and polar regions

## General works

Limited to none of the 9 classes

- 000  
001  
002  
003  
004  
005  
006  
007  
008  
009
- Left blank for local history or biography, etc. where some special collection is making which is to be kept in a case by itself, out of its regular place in the classification. Individuals use these numbers for personal diaries, note books, memorabilia, etc.
- 010 **Bibliography**  
011 General bibliographies  
012 Of individual authors  
013 " special classes of authors  
014 " " forms, pseudonyms, etc.  
015 " " countries  
016 " " subjects  
017 Clast catalogs  
018 Author "  
019 Dictionary catalogs
- 020 **Library economy**  
021 Scope, usefulness and founding  
022 Buildings  
023 Government and servis  
024 Regulations for readers  
025 Administration Departments  
026 Libraries on special subjects  
027 General libraries Reports, etc.
- 028 **Reading and aids**  
029 Literary methods Laborsavers
- 030 **General cyclopedias**  
031 American  
032 English  
033 German  
034 French  
035 Italian  
036 Spanish  
037 Slavic  
038 Scandinavian  
039 Minor languages
- 040 **General collected essays**  
041 American  
042 English  
043 German  
044 French  
045 Italian  
046 Spanish  
047 Slavic  
048 Scandinavian  
049 Minor languages
- 050 **General periodicals**  
051 American  
052 English  
053 German  
054 French  
055 Italian  
056 Spanish  
057 Slavic  
058 Scandinavian  
059 Minor languages
- 060 **General societies**  
061 American  
062 English  
063 German  
064 French  
065 Italian  
066 Spanish  
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- 070 **Newspapers Journalism**  
071 American  
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073 German  
074 French  
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076 Spanish  
077 Slavic  
078 Scandinavian  
079 Minor languages
- 080 **Special libraries Polygrafy**  
081  
082  
083  
084  
085  
086  
087  
088  
089
- Left blank to be used (if preferd to prefixing an initial) for general collections of books which by terms of gift or for other cause must be kept together. This must be kept distinct from 040 where the individual books are polygraphic, i. e. are bound pamphlets, essays, addresses, scrap or note books, etc. too general in scope to go under any single class. Juvenils could be put here, but are better kept in a separate class, markt J
- 090 **Book rarities**  
091 Manuscripts Autografs  
092 Block books  
093 Early printed Incunabula  
094 Rare printing Privately printed  
095 Rare binding  
096 Rare illustrations or materials  
097 Ownership Bookplates  
098 Prohibited Lost Imaginary  
099 Other rarities Curiosa

## Philosophy

- |            |                               |            |                                  |
|------------|-------------------------------|------------|----------------------------------|
| <b>100</b> | <b>Philosophy</b>             | <b>150</b> | <b>Mental faculties</b>          |
| 101        | Utility                       | 151        | Intellect                        |
| 102        | Compendis                     | 152        | Sense perceptions                |
| 103        | Dictionaries                  | 153        | Understanding                    |
| 104        | Essays                        | 154        | Memory                           |
| 105        | Periodicals                   | 155        | Imagination                      |
| 106        | Societies                     | 156        | Reason Intuitiv faculty          |
| 107        | Study and teaching            | 157        | Sensibility Emotions             |
| 108        | Polygrafy Maxims              | 158        | Instincts Appetites              |
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| 131        | Mental physiology and hygiene | 181        | Oriental                         |
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| 133        | Delusions Witchcraft Magic    | 183        | Sophistic and Socratic           |
| 134        | Mesmerism Clairvoyance        | 184        | Platonic                         |
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| 147        | Pantheism Monism              | 197        | Slavic                           |
| 148        | Eclecticism                   | 198        | Scandinavian                     |
| 149        | Other philosophic systems     | 199        | Other modern                     |

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- |     |                                 |     |                                       |
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| 202 | Compendis                       | 252 | Sermons                               |
| 203 | Dictionaries                    | 253 | Pastoral visitations Evangelistic     |
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| 205 | Periodicals                     | 255 | Brotherhoods Sisterhoods              |
| 206 | Societies                       | 256 | Societies for parish work Gilds       |
| 207 | Education Theologic schools     | 257 | Parochial schools, libraries, etc.    |
| 208 | Polygrafy                       | 258 | Parish care of sick, fallen, etc.     |
| 209 | History of theology             | 259 | Other ministrations and work          |
| 210 | <b>Natural theology</b>         | 260 | <b>Church Institutions Work</b>       |
| 211 | Deism and atheism               | 261 | Church                                |
| 212 | Pantheism Theosofy              | 262 | Ecclesiastic polity                   |
| 213 | Creation Evolution              | 263 | Sabbath Lord's day Sunday             |
| 214 | Providence Theodicy Fatalism    | 264 | Public worship Ritual                 |
| 215 | Religion and science            | 265 | Sacraments Ordinances                 |
| 216 | Evil Depravity                  | 266 | Missions Home and foren               |
| 217 | Prayer                          | 267 | Associations Y M C A, etc.            |
| 218 | Future life Immortality         | 268 | Sunday schools                        |
| 219 | Analogies Correspondences       | 269 | Revivals Retreats                     |
| 220 | <b>Bible</b>                    | 270 | <b>Religious history</b>              |
| 221 | Old Testament                   | 271 | Monastic orders                       |
| 222 | Historic books                  | 272 | Persecutions                          |
| 223 | Poetic "                        | 273 | Heresies                              |
| 224 | Prophetic "                     | 274 | Europe                                |
| 225 | New Testament                   | 275 | Asia                                  |
| 226 | Gospels and Acts                | 276 | Africa                                |
| 227 | Epistles                        | 277 | North America                         |
| 228 | Apocalypse                      | 278 | South America                         |
| 229 | Apocrypha                       | 279 | Oceania                               |
| 230 | <b>Doctrinal Dogmatics</b>      | 280 | <b>Christian churches &amp; sects</b> |
| 231 | God Unity Trinity               | 281 | Primitiv and oriental                 |
| 232 | Christ Christology              | 282 | Roman catholic                        |
| 233 | Man The fall Sin                | 283 | Anglican and American P E             |
| 234 | Salvation Soteriology           | 284 | Continental protestant                |
| 235 | Angels Devils Satan             | 285 | Presbyterian Congregational           |
| 236 | Eschatology Deth Judgment       | 286 | Baptist                               |
| 237 | Future state                    | 287 | Methodist                             |
| 238 | Creeds Catechisms               | 288 | Unitarian                             |
| 239 | Apologetics Evidences           | 289 | Minor Christian sects                 |
| 240 | <b>Devotional Practical</b>     | 290 | <b>Ethnic Nonchristian</b>            |
| 241 | Didactic                        | 291 | Comparativ & general mythology        |
| 242 | Meditativ                       | 292 | Greek and Roman                       |
| 243 | Hortatory                       | 293 | Teutonic and Northern                 |
| 244 | Miscellany Fiction              | 294 | Brahmanism Buddhism                   |
| 245 | Hymnology Religious poetry      | 295 | Parseeism                             |
| 246 | Ecclesiology Symbolism          | 296 | Judaism                               |
| 247 | Sacred furniture, vessels, etc. | 297 | Mohammedanism                         |
| 248 | Personal religion Asceticism    | 298 | Mormonism                             |
| 249 | Family devotions                | 299 | Minor nonchristian religions          |

## Sociology

- |     |                                 |     |                                  |                      |
|-----|---------------------------------|-----|----------------------------------|----------------------|
| 300 | <b>Sociology</b>                | 350 | <b>Administration</b>            | <b>Army</b>          |
| 301 | Philosophy Theories             | 351 | Administration of central gov't  |                      |
| 302 | Compendis                       | 352 | Local government: city, town     |                      |
| 303 | Dictionaries                    | 353 | United States and state          |                      |
| 304 | Essays                          | 354 | Foren states                     |                      |
| 305 | Periodicals                     | 355 | Army Military science            |                      |
| 306 | Societies                       | 356 | Infantry                         |                      |
| 307 | Education                       | 357 | Cavalry                          |                      |
| 308 | Polygrafy                       | 358 | Artillery                        |                      |
| 309 | History of sociology            | 359 | Navy Naval science               |                      |
| 310 | <b>Statistics</b>               | 360 | <b>Associations</b>              | <b>Institutions</b>  |
| 311 | Theory Methods                  | 361 | Charitable                       |                      |
| 312 | Population                      | 362 | Hospitals Asylums                |                      |
| 313 | Special topics                  | 363 | Political                        |                      |
| 314 | Europe                          | 364 | Reformatory                      |                      |
| 315 | Asia                            | 365 | Prisons Disciplin                |                      |
| 316 | Africa                          | 366 | Secret societies                 |                      |
| 317 | North America                   | 367 | Social clubs                     |                      |
| 318 | South America                   | 368 | Insurance                        |                      |
| 319 | Oceanica                        | 369 | Other                            |                      |
| 320 | <b>Political science</b>        | 370 | <b>Education</b>                 |                      |
| 321 | Form of state                   | 371 | Teachers, methods, and disciplin |                      |
| 322 | Church and state                | 372 | Elementary Kindergarten          |                      |
| 323 | Internal or domestic relations  | 373 | Intermediate                     |                      |
| 324 | Suffrage Citizenship            | 374 | Self education and culture       |                      |
| 325 | Colonies and immigration        | 375 | Curriculum                       |                      |
| 326 | Slavery                         | 376 | Education of women               |                      |
| 327 | Foren relations                 | 377 | Religious, ethical and secular   |                      |
| 328 | Legislativ bodies and annals    | 378 | Colleges and universities        |                      |
| 329 | Political parties               | 379 | Public schools State education   |                      |
| 330 | <b>Political economy</b>        | 380 | <b>Commerce</b>                  | <b>Communication</b> |
| 331 | Capital Labor Wages             | 381 | Domestic trade                   |                      |
| 332 | Banks Money Credit Interest     | 382 | Foren trade Consular reports     |                      |
| 333 | Land Ownership Rights & rent    | 383 | Postoffis                        |                      |
| 334 | Cooperation                     | 384 | Telegraf Cable Telefone          |                      |
| 335 | Socialism and communism         | 385 | Railroad and express             |                      |
| 336 | Finance Public funds Taxation   | 386 | Canal & highway transportation   |                      |
| 337 | Protection and free trade       | 387 | River and ocean transportation   |                      |
| 338 | Production Manufacture Prices   | 388 | City transit                     |                      |
| 339 | Consumption Pauperism           | 389 | Weights and mesures Metrology    |                      |
| 340 | <b>Law</b>                      | 390 | <b>Customs</b>                   | <b>Popular life</b>  |
| 341 | International law               | 391 | Costume and care of person       |                      |
| 342 | Constitutional law and history  | 392 | Birth, home and sex customs      |                      |
| 343 | Criminal law                    | 393 | Treatment of ded                 |                      |
| 344 | Martial law                     | 394 | Public and social customs        |                      |
| 345 | U. S. statutes and cases        | 395 | Etiquet                          |                      |
| 346 | British statutes and cases      | 396 | Woman's position and treatment   |                      |
| 347 | Treatises: American and British | 397 | Gipsies Nomads Outcast races     |                      |
| 348 | Canon law                       | 398 | Folklore Proverbs, etc.          |                      |
| 349 | Foren law Roman                 | 399 | Customs of war                   |                      |

## Philology

<b>400 Philology</b>	<b>450 Italian</b>
401 Philology	451 Orthography
402 Compendis	452 Etymology
403 Dictionaries	453 Dictionaries
404 Essays	454 Synonyms
405 Periodicals	455 Grammar
406 Societies	456 Prosody
407 Study and teaching	457 Dialects
408 Polygraphy	458 School texts
409 History of language	<b>459 Rumansh and Wallachian</b>
<b>410 Comparativ</b>	<b>460 Spanish</b>
411 Orthography Alfabetis	461 Orthography
412 Etymology	462 Etymology
413 Dictionaries	463 Dictionaries
414 Phonology	464 Synonyms
415 Grammar	465 Grammar
416 Prosody	466 Prosody
417 Inscriptions	467 Dialects
418 Texts	468 School texts
419 Hieroglyphics	<b>469 Portuguese</b>
<b>420 English</b>	<b>470 Latin</b>
421 Orthography	471 Orthography
422 Etymology	472 Etymology
423 Dictionaries	473 Dictionaries
424 Synonyms	474 Synonyms
425 Grammar	475 Grammar
426 Prosody	476 Prosody
427 Dialects	477 Dialects
428 School texts	478 School texts
429 Anglo-Saxon	479 <b>Minor Italic</b>
<b>430 German</b>	<b>480 Greek</b>
431 Orthography	481 Orthography
432 Etymology	482 Etymology
433 Dictionaries	483 Dictionaries
434 Synonyms	484 Synonyms
435 Grammar	485 Grammar
436 Prosody	486 Prosody
437 Dialects	487 Dialects
438 School texts	488 School texts
439 <b>Minor Teutonic</b>	489 <b>Minor Hellenic</b>
<b>440 French</b>	<b>490 Minor languages</b>
441 Orthography	491 <b>Minor Indo-European</b>
442 Etymology	492 Semitic
443 Dictionaries	493 Hamitic
444 Synonyms	494 Scythian Turanian
445 Grammar	495 Eastern Asiatic
446 Prosody	496 African
447 Dialects	497 North American
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449 <b>Provençal</b>	499 Malay-Polynesian and other

## Natural science

- 500 Natural science**  
 501 Philosophy  
 502 Compendis  
 503 Dictionaries  
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 506 Societies  
 507 Education Museums  
 508 Polygrafy  
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**510 Mathematics**  
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 512 Algebra  
 513 Geometry Conic sections  
 514 Trigonometry  
 515 Descriptiv geometry  
 516 Analytic geometry Quaternions  
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**520 Astronomy**  
 521 Theoretic  
 522 Practical and spheric  
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 526 Geodesy  
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**530 Physics**  
 531 Mechanics  
 532 Liquids Hydraulics  
 533 Gases Pneumatics  
 534 Sound Acoustics  
 535 Light Optics  
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 537 Electricity  
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**540 Chemistry**  
 541 Theoretic  
 542 Practical and experimental  
 543 Analysis  
 544 Qualitativ  
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 548 Crystallografy  
 549 Mineralogy  
**550 Geology**  
 551 Physical and dynamic geology  
 552 Lithology Petrografy  
 553 Economic geology  
 554 Europe  
 555 Asia  
 556 Africa  
 557 North America  
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 559 Oceanica Polar regions  
**560 Paleontology**  
 561 Plants  
 562 Invertebrates  
 563 Protozoa Radiates  
 564 Mollusks  
 565 Articulates  
 566 Vertebrates  
 567 Fishes Batrachia  
 568 Reptils Birds  
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**570 Biology Ethnology**  
 571 Prehistoric archeology  
 572 Ethnology Anthropology  
 573 Natural history of man  
 574 Homologies  
 575 Evolution Species  
 576 Origin and beginnings of life  
 577 Properties of living matter  
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 581 Physiologic and structural  
 582 Phanerogamia  
 583 Dicotyledonae  
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 585 Gymnospermae  
 586 Cryptogamia  
 587 Pteridophyta  
 588 Bryophyta  
 589 Thalophyta  
**590 Zoology**  
 591 Physiologic zoology  
 592 Invertebrates  
 593 Protozoa Radiates  
 594 Mollusks  
 595 Articulates  
 596 Vertebrates  
 597 Fishes Batrachia  
 598 Reptils Birds  
 599 Mammals



## Useful arts

- 600 Useful arts**  
 601 Philosophy  
 602 Compendis  
 603 Dictionaries  
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 605 Periodicals  
 606 Societies Fairs Exhibitions  
 607 Education, schools of technology  
 608 Patents Inventions  
 609 History of useful arts
- 610 Medicin**  
 611 Anatomy  
 612 Physiology  
 613 Hygiene Gymnastics Training  
 614 Public helth  
 615 Materia medica Therapeutics  
 616 Pathology Diseases Treatment  
 617 Surgery Dentistry  
 618 Diseases of women and children  
 619 Comparativ medicin Veterinary
- 620 Engineering**  
 621 Mechanical  
 622 Mining  
 623 Military Naval  
 624 Bridge and roof  
 625 Road and railroad  
 626 Canal  
 627 River and harbor  
 628 Sanitary Waterworks  
 629 Other branches
- 630 Agriculture**  
 631 Soil Fertilizers Drainage  
 632 Pests Hindrances Blights Insects  
 633 Grains Grasses Fibers Tea, etc.  
 634 Fruits Orchards Vineyards  
 635 Kitchen garden  
 636 Domestic animals  
 637 Dairy: milk, butter, cheese  
 638 Bees Silkworms  
 639 Fishing Trapping
- 640 Domestic economy**  
 641 Food Cookery  
 642 Serving Entertaining  
 643 Shelter; house, home  
 644 Heat, light, ventilation  
 645 Furnishing Decoration  
 646 Clothing Toilet  
 647 Household administration  
 648 Sanitary precautions  
 649 Nursery Sickroom
- 650 Communication Commerce**  
 651 Offis equipment and methods  
 652 Writing: materials, typewriters  
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 654 Telegraf Cables Signals  
 655 Printing Publishing Copyright  
 656 Transportation Railroadng, etc.  
 657 Bookkeeping Accounts  
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 659 Advertising and other topics
- 660 Chemic technology**  
 661 Chemicals  
 662 Pyrotechnics Explosivs  
 663 Beverages: wines, liquors, ales, etc.  
 664 Foods: sugar, starch, etc.  
 665 Lights: gas, oil, candles, etc.  
 666 Ceramics: glass, clay, cement, etc.  
 667 Bleaching Dyeing Inks Paints  
 668 Other organic chemic industries  
 669 Metallurgy Assaying
- 670 Manufactures**  
 671 Articles made of metals  
 672 Of iron & steel; stoves, cutlery  
 673 Of brass and bronze; bells, etc.  
 674 Lumber & articles made of wood  
 675 Leather " " lether  
 676 Paper " " paper  
 677 Cotton, wool, silk, linen, etc.  
 678 Rubber & articles made of rubber  
 679 Celluloid and other
- 680 Mechanic trades**  
 681 Watch and instrument making  
 682 Blacksmithing Horseshoeing  
 683 Lock and gun making  
 684 Carriage and cabinet making  
 685 Saddlery & shoemaking Trunks  
 686 Bookbinding  
 687 Clothesmaking Hats  
 688  
 689 Other trades
- 690 Bilding**  
 691 Materials Processes Preservativs  
 692 Plans and specifications  
 693 Masonry Plastering, etc.  
 694 Carpentry Stairbilding  
 695 Roofing Slating and tiling  
 696 Plumbing Gas and steam fitting  
 697 Heating and ventilation  
 698 Painting Glazing Paperhanging  
 699 Carbilding

## Fine arts

- |            |   |            |                                    |
|------------|---|------------|------------------------------------|
| <b>700</b> | <b>Fine arts</b>                        | <b>750</b> | <b>Painting</b>                    |
| 701        | Philosophy      Esthetics               | 751        | Materials and methods              |
| 702        | Compendis                               | 752        | Color                              |
| 703        | Dictionaries                            | 753        | Epic      Mythic      Idealistic   |
| 704        | Essays                                  | 754        | Genre      Still life              |
| 705        | Periodicals                             | 755        | Religious      Ecclesiastic        |
| 706        | Societies                               | 756        | Historical      Battles, etc.      |
| 707        | Education      Study                    | 757        | Portrait                           |
| 708        | Art galleries                           | 758        | Landscape      Marine              |
| 709        | History of art                          | 759        | Various schools                    |
| <b>710</b> | <b>Landscape gardening</b>              | <b>760</b> | <b>Engraving</b>                   |
| 711        | Public parks                            | 761        | Wood                               |
| 712        | Private grounds      Lawns              | 762        | Copper      Steel                  |
| 713        | Walks      Drives                       | 763        | Lithography                        |
| 714        | Water: fountains, lakes                 | 764        | Chromolithography                  |
| 715        | Trees      Hedges      Shrubs           | 765        | Line      Stipple                  |
| 716        | Plants      Flowers      Conservatories | 766        | Mezzotint      Aquatint            |
| 717        | Arbors      Seats      Outlooks         | 767        | Etching      Dry point             |
| 718        | Monuments      Mausoleums               | 768        | Banknote      Machine              |
| 719        | <b>Cemeteries</b>                       | 769        | Collections of engravings          |
| <b>720</b> | <b>Architecture</b>                     | <b>770</b> | <b>Photography</b>                 |
| 721        | Architectural construction              | 771        | Photographic chemistry             |
| 722        | Ancient and oriental                    | 772        | Silver processes, etc.             |
| 723        | Medieval      Gothic                    | 773        | Gelatin and pigment processes      |
| 724        | Modern                                  | 774        | “ & printer's ink      Albotype    |
| 725        | Public buildings                        | 775        | Photolithography, etc.             |
| 726        | Ecclesiastic and religious              | 776        | Photozincography, etc.             |
| 727        | Educational and scientific              | 777        | Photoengraving      Photoelectros  |
| 728        | Residences                              | 778        | Special applications               |
| 729        | Design and decoration                   | 779        | Collections of photografs          |
| <b>730</b> | <b>Sculpture</b>                        | <b>780</b> | <b>Music</b>                       |
| 731        | Materials and methods                   | 781        | Theory                             |
| 732        | Ancient                                 | 782        | Dramatic                           |
| 733        | Greek and Roman                         | 783        | Sacred                             |
| 734        | Medieval                                | 784        | Vocal                              |
| 735        | Modern                                  | 785        | Orchestral                         |
| 736        | Carving      Seals      Dies      Gems  | 786        | Piano and organ                    |
| 737        | Numismatics      Coins      Medals      | 787        | String instruments                 |
| 738        | Pottery      Porcelain                  | 788        | Wind      “                        |
| 739        | Bronzes      Bricabrac                  | 789        | Percussion and mechanical          |
| <b>740</b> | <b>Drawing      Decoration</b>          | <b>790</b> | <b>Amusements</b>                  |
| 741        | Freehand      Crayon                    | 791        | Public entertainment               |
| 742        | Perspectiv                              | 792        | Theater      Opera                 |
| 743        | Art anatomy      Life school            | 793        | Indoor amusements                  |
| 744        | Mathematic drawing                      | 794        | Games of skill      Chess          |
| 745        | Ornamental design: carpet, etc.         | 795        | Games of chance      Cards         |
| 746        | Art needlework                          | 796        | Outdoor sports                     |
| 747        | Interior decoration                     | 797        | Boating and ball                   |
| 748        | Stained and iridescent glass            | 798        | Horsemanship      Racing           |
| 749        | Artistic furniture                      | 799        | Fishing      Hunting      Shooting |

## Literature

- |                                       |                                       |
|---------------------------------------|---------------------------------------|
| <b>800 Literature</b>                 | <b>850 Italian literature</b>         |
| 801 Philology                         | 851 Poetry                            |
| 802 Compendis                         | 852 Drama                             |
| 803 Dictionaries                      | 853 Fiction                           |
| 804 Essays                            | 854 Essays                            |
| 805 Periodicals                       | 855 Oratory                           |
| 806 Societies                         | 856 Letters                           |
| 807 Study and teaching                | 857 Satire Humor                      |
| 808 Rhetoric Treatises                | 858 Miscellany                        |
| 809 History                           | <b>859 Rumansh and Wallachian</b>     |
| <b>810 American literature</b>        | <b>860 Spanish literature</b>         |
| 811 Poetry                            | 861 Poetry                            |
| 812 Drama                             | 862 Drama                             |
| 813 Fiction                           | 863 Fiction                           |
| 814 Essays                            | 864 Essays                            |
| 815 Oratory                           | 865 Oratory                           |
| 816 Letters                           | 866 Letters                           |
| 817 Satire Humor                      | 867 Satire Humor                      |
| 818 Miscellany                        | 868 Miscellany                        |
| 819                                   | <b>869 Portuguese literature</b>      |
| <b>820 English literature</b>         | <b>870 Latin literature</b>           |
| 821 Poetry                            | 871 Poetry                            |
| 822 Drama                             | 872 Dramatic                          |
| 823 Fiction                           | 873 Epic                              |
| 824 Essays                            | 874 Lyric                             |
| 825 Oratory                           | 875 Oratory                           |
| 826 Letters                           | 876 Letters                           |
| 827 Satire Humor                      | 877 Satire Humor                      |
| 828 Miscellany                        | 878 Miscellany                        |
| <b>829 Anglo-Saxon literature</b>     | <b>879 Minor Italic literatures</b>   |
| <b>830 German literature</b>          | <b>880 Greek literature</b>           |
| 831 Poetry                            | 881 Poetry                            |
| 832 Drama                             | 882 Dramatic                          |
| 833 Fiction                           | 883 Epic                              |
| 834 Essays                            | 884 Lyric                             |
| 835 Oratory                           | 885 Oratory                           |
| 836 Letters                           | 886 Letters                           |
| 837 Satire Humor                      | 887 Satire Humor                      |
| 838 Miscellany                        | 888 Miscellany                        |
| <b>839 Minor Teutonic literatures</b> | <b>889 Minor Hellenic literatures</b> |
| <b>840 French literature</b>          | <b>890 Minor literatures</b>          |
| 841 Poetry                            | 891 Minor Indo-European               |
| 842 Drama                             | 892 Semitic                           |
| 843 Fiction                           | 893 Hamitic                           |
| 844 Essays                            | 894 Scythian Turanian                 |
| 845 Oratory                           | 895 Eastern Asiatic                   |
| 846 Letters                           | 896 African                           |
| 847 Satire Humor                      | 897 North American                    |
| 848 Miscellany                        | 898 South American                    |
| <b>849 Provençal literature</b>       | 899 Malay-Polynesian and other        |

## History

- |                                 |                                   |
|---------------------------------|-----------------------------------|
| <b>900 History</b>              | <b>950 Asia</b>                   |
| 901 Philosophy                  | 951 China                         |
| 902 Compendis Chronologies      | 952 Japan                         |
| 903 Dictionaries                | 953 Arabia                        |
| 904 Essays                      | 954 India                         |
| 905 Periodicals                 | 955 Persia                        |
| 906 Societies                   | 956 Turkey in Asia                |
| 907 Study and teaching          | 957 Siberia [chistan              |
| 908 Polygrafy                   | 958 Afghanistan Turkistan Balu-   |
| 909 Universal histories         | 959 Farther India                 |
| <b>910 Geografy and travels</b> | <b>960 Africa</b>                 |
| 911 Historical                  | 961 North Africa                  |
| 912 Maps                        | 962 Egypt Nubia                   |
| 913 Antiquities                 | 963 Abyssinia                     |
| 914 Europe                      | 964 Morocco                       |
| 915 Asia                        | 965 Algeria                       |
| 916 Africa                      | 966 North Central Africa          |
| 917 North America               | 967 South Central Africa          |
| 918 South America               | 968 South Africa                  |
| 919 Oceanica Polar regions      | 969 Madagascar Mauritius          |
| <b>920 Biografy</b>             | <b>970 North America</b>          |
| 921 Of philosophy               | 971 British America               |
| 922 " theology                  | 972 Mexico Central America        |
| 923 " sociology                 | 973 United States                 |
| 924 " philology                 | 974 North Atlantic states         |
| 925 " science                   | 975 South Atlantic states         |
| 926 " useful arts               | 976 South Central or Gulf states  |
| 927 " fine arts                 | 977 Northeast Central or Lake "   |
| 928 " literature                | 978 Western or Mountain "         |
| 929 Genealogy Heraldry          | 979 Pacific states                |
| <b>930 Ancient history</b>      | <b>980 South America</b>          |
| 931 China                       | 981 Brazil                        |
| 932 Egypt                       | 982 Argentina Patagonia           |
| 933 Judea                       | 983 Chile                         |
| 934 India                       | 984 Bolivia                       |
| 935 Medo-Persia                 | 985 Peru                          |
| 936 Kelts                       | 986 Colombia Ecuador              |
| 937 Rome Italy                  | 987 Venezuela                     |
| 938 Greece                      | 988 Guiana                        |
| 939 Minor countries             | 989 Paraguay Uruguay              |
| <b>940 Europe</b>               | <b>990 Oceanica Polar regions</b> |
| 941 Scotland Ireland            | 991 Malaysia                      |
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| 943 Germany Austria             | 993 Australasia                   |
| 944 France                      | 994 Australia                     |
| 945 Italy                       | 995 New Guinea                    |
| 946 Spain Portugal              | 996 Polynesia                     |
| 947 Russia                      | 997 Isolated ilands               |
| 948 Norway Sweden Denmark       | 998 Arctic regions                |
| 949 Minor countries             | 999 Antarctic regions             |

# Complete Tables

including all the

## SUBSECTIONS

# General works

- 010 Bibliography** *too general for my mit class*  
.1 Theory, utility, etc. .2 Compendis .3 Dictionaries .4 Essays .5 Periodicals  
.6 Societies .7 Education, training, see also 020.7; .8 Polygraphy .9 History

*Swenschi*  
**011 General bibliographies Universal catalogs**

011 is by Authors. If by Subjects they go in 016

Properly a catalog is of a special collection and so tells where the works may be found. A bibliography disregards actual location and tells what there is, but its contents can seldom be found in any one library

012-016 include both bibliographies and catalogs. 017-019 is limited to catalogs of general collections

**012 Of individual authors**

Alfabeted by subjects of bibliographies (bibliografees), not by compilers; e. g. Chaucer, Dante, Ruskin, etc.

A bibliography of an individual may include either works about or by the individual, or both

Authors on whom special collections are being made (e. g. in 800), attract their bibliographies to same number, leaving only a reference here. Other individual bibliographies class here, unless clearly limited to some subject; e. g. artists or musicians, bibliography of Wagner 016.782

**013 Of special classes of authors**

Subdivided like the general classification, as indicated below. Lists of writings of such classes, if limited to a special subject, class with that subject; e. g. list of historical works by Jesuits 016.9. But in exceptional cases the bibliography of a special class of authors may be put with that class; e. g. bibliography of women's writings 396.58, tho 013.396 would be the better number in a general library

- .0206 Writings of members of A L A  
.064 " " " " French academy  
.282 " " Roman catholics  
.378744 " " Harvard graduates

**.9 Writings of foren residents in a special country**

Often extended to one or more generations of descendants. This provides for bibliographies in which nationality, not subject, is the important idea

**.91 Authors from special country**

Divided like 930-999 by country of origin and farther subdivided with 0 like 930-999 by country of adoption; e. g. 013.91485 bibliography of writings of Swedes outside Sweden, 013.91485044 writings of Swedes in France, 013.9148507 of Swedes in America. This groups under *mother country*; e. g. gathers together all lists of works by emigrant Swedes

**.930-999 Foren authors in special country**

Usually preferable to .91. Divided like 930-999 by country of adoption and farther subdivided with 0 like 930-999 for country of origin; e. g. 013.944 foren authors in France; 013.973 foren authors in U S, 013.9730485 Swedish authors in U S; 013.9485073 American authors in Sweden. Ordinarily 013.94807 would be explicit enough; the longer number is not advised. This groups under *adopted country*; e. g. gathers under a given country all its foren authors

**014 Of special forms: anonyms, pseudonyms, etc.**

- .1 American .2 English .3 German, etc.

## 015 Of special countries

Books published in the country. Publishers lists, current publications. Subdivided by countries like 940-999; e. g. 015.42, Bibliography of books published in England, as Lowndes or English catalog

The history of literature, i. e. belles lettres, poetry, drama, fiction, etc. goes, of course, with those topics in 800; but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliography, and goes, usually, in 015, tho the literary history of some special class is 013

## 016 Of special subjects

Subdivided like the main classification, from 000-999; e. g. 016.01, Bibliography of bibliographies; 016.091, of manuscripts; 016.5, of science; 016.942, of English history, etc.

See also next note

# Library and sale catalogs

Catalogs of any special subject, whether subject, author, or dictionary, go under its subject number, in 016, which is the ruling heading wherever it conflicts with another. 017-019 therefore includes only catalogs of general collections, limited to no one class or subject

Under 017-019, 4 means catalogs of books for sale, not published, by booksellers. For *publishers* catalogs see 015

## 017 Clast catalogs: systematic or logical

.1 Public .2 Private .3 Auction .4 Booksellers

Class here author and subject lists bound together, as they are much oftener used to see what has been written on some subject than whether a library has a certain book

For all forms of alphabetic subject catalogs, see 019. See 016 for Bibliographies

## 018 Author catalogs See 011 for Bibliographies

.1 Public .2 Private .3 Auction .4 Booksellers

A volume containing both author and subject catalogs is more useful in 017. For auction catalogs of private libraries use 018.2, not 018.3. 018 includes accession, chronologic, and any other forms (except subject and dictionary) of catalogs of collections

## 019 Dictionary catalogs Alfabeticoclast, etc.

.1 Public .2 Private .3 Auction .4 Booksellers

# 020 Library economy

### SUMMARY

#### 020-025 Science and administration of libraries in general

- 021 Scope, founding, supporting
- 022 Buildings and grounds
- 023 Government and service
- 024 Regulations
- 025 Administration

#### 026-027 Special libraries and collections; history, description and management

- 026 Libraries on special subjects
- 027 General libraries

#### 028-029 Allied subjects

- 028 Reading and aids
- 029 Literary methods

### REFERENCES TO OTHER MATERIAL

- 010 Bibliography
- 090 Book rarities

020.1 Theory .2 Compendis .3 Dictionaries .4 Essays .5 Periodicals

- 020.6 Societies, associations, clubs, conferences
  - .61 Official institutions; government departments
    - For library commissions see 021.82
  - .62 Societies not under government control
    - .621 International associations
    - .622 National " "
    - .623 State " "
    - .624 Local clubs
    - .625 Associations of special groups
      - State librarians, or class in 027.506
      - Medical " " " " 026.6106
      - Sunday school " " " 027.8
      - Library dep't of N E A or class with subject in 021.8
    - .626 Mutual benefit associations
      - Or class in 023.59, if preferd
    - .627 A L A publishing board
      - For library leags see 021.3
    - .63 Congresses, conferences, meetings, temporary organizations
    - .65 Commercial establishments Library Bureau
      - For commercial circulars see 020.85
  - .7 Education Training Library schools
    - .71 Instruction, schools
      - Standards, location, cost, etc.
    - .711 Library schools
      - Use letter for each school, and if desired divide like 378 A-Z
    - .712 Summer schools
    - .713 Apprentis classes Training classes
    - .714 Correspondence schools
    - .715 Library institutes
      - Similar to teachers institutes; local meetings with a conductor, for dis-  
cussion of practical problems
    - .716 Courses in colleges and universities
    - .717 Courses in normal and high schools
    - .718
    - .719 Private schools and instruction
    - .72 Research work
    - .73
    - .74 Museums, exhibits
      - Collections of illustrativ appliances, blanks etc
    - .75
    - .76
    - .77 Special pedagogic methods
    - .78
    - .79 Competitions, prizes, traveling scholarships
  - .8 Polygrafy
    - .81 Individual polygrafy
    - .82 Collectiv " "
    - .822 Extracts, maxims, anthologies
    - .83 Recipes
    - .84
    - .85 Commercial circulars
      - See also 020.65 Commercial establishments
    - .86
    - .87
    - .88 Curiosa, anecdotes, library humor, dummy book titles
    - .9 History of library economy
      - For history of libraries both public and private see 027
      - Lives of librarians are clast in 920.2. To keep them with the subject use  
020.92, and for fotografs of librarians 020.921. Collected lives may be sepa-  
rated from individual by use of the Olin booknumbers (following Index)



## 021 Scope, usefulness and founding of libraries.

Also scope and founding of combined libraries and museums. Support, development

- .01 Arguments for libraries: purpose, benefits
  - Impressiveness of libraries. Discussion of free public libraries is better class here than in 027.4
- .02 Arguments against libraries: evils of libraries
  - For paternalism in library see 021.201
- .03 Progress and future of libraries
  - Reforms, improvements, projects, plans, prophesies, library ideals
- .04 Ideals for special communities
  - e.g. what a library can do for a manufacturing community
- .1 Library as a storehouse
- .16 Character of material appropriate to library
- .2 Library as an educator; people's university
  - Material on private reading is better in 028 than in 021.2
  - While the work of a library is nearly all educational in a broad sense, the relations of the library to special classes of the community, outside of direct educational work thru schools and home education work, are best class with libraries for special classes in 027.6, or when a special subject predominates, in 026
- .201 Paternalism in library
  - See also 024.58 Library censorship of news, 024.64 Restriction of immoral books, 025.217 Exclusion of immoral or ill made books
- .25 Library as a publisher
- .26 " bookseller
- .3 Library in relation to schools and the young
  - This is mainly for relations of general public libraries to school work. Class a library owned by and kept at the school in 027.8. School libraries, 371.6, is only to keep all school material together under 370. Class general work for children with children's libraries in 027.6
- .31 Relations to teachers
- .32 " pupils
  - Librarian's talks to pupils, either at schoolhouses or at library, on use of library
- .33 Special libraries for schools
  - Specially selected from general library and lent to school either for class or general school use
- .34
- .37 Work of individual libraries with schools
  - Alfabeted by library; e.g. accounts of work with schools by Hartford public library under Hartford, by Osterhout library at Wilkesbarre under Osterhout
- .4 Home education
  - This includes all servises or added fields of work undertaken by the library outside the use of books. For programs, reports, etc. of home education agencies, see 374.1-9
- .41 Study clubs Reading circles, etc.
- .42 Conferences, conventions, institutes, etc.
- .43 Lectures
  - For extension courses, see 021.44
- .44 Extension courses Lecture study
- .45 Entertainments: dramatic, musical, etc.
- .46 Museums and temporary exhibits
- .47 Science museums or collections
- .48 Art galleries " "

- 021.5 Library as a recreation**
- .6 Library extension and cooperation**  
 For work done by the state see 021.8
- .61 Deliveries**  
 See also 025.6 and 022.16
- .62 Branches**  
 See also 022.15
- .63 Centralization Grouping of libraries**
- .64 Cooperation between libraries**  
 Cooperation in any special department is class with the department; e.g. interlibrary lending 025.6
- .65 Traveling libraries**  
 A collection (usually 25 to 100 volumes) either general or on one subject, lent to a community, library, study club or other organization
- .66 House libraries**  
 A small traveling library for use of a person or household. Originated at New York state library for isolated students
- .67 Home libraries**  
 Small libraries for children, each library kept at home of some child for use of a group, under supervision of a visitor. The libraries travel from group to group. Originated by Boston Children's aid society
- .7 Founding Developing and maintaining interest**  
 This is mainly for starting a library, interesting people and bringing them to the library. For most special methods of interesting those who are already readers see 025.5 and 025.6
- .71 Personal canvass, visits and correspondence**
- .72 Circulars**
- .73 Advertizing**  
 In newspapers, posters, street cars, etc.
- .74 Press Publicity**  
 Newspaper editorials, articles, letters, etc.
- .75 Schools and teachers**
- .76 Churches and ministers Pulpit**
- .77 Literary and other organizations and institutions**
- .78 Lectures Public meetings and addresses**
- .79 Library propaganda**  
 Societies, local or general, for encouragement and stimulation
- .8 Libraries and the state Library legislation**
- .81 State supervision**
- .82 Library departments or commissions**  
 Special work done by commissions is class by its subject. Reports of commissions, if largely a summary of the *public* libraries of the state, go in 027.4  
 If important to keep all work of commissions together, class their reports here
- .83 Government aid**
- .831 State grants of money**
- .832 Local subsidies**
- .84 Gifts of books**
- .841 Public documents, etc.**
- .842 Copyright books**

- 021.85 Exchanges  
 See 025.266 for systems of exchanges, management, routine in individual libraries. This number is for general exchanges by state or central authority
- .851 Local
- .852 Foren  
 Vattemare international exchanges, Smithsonian exchanges
- .86 Privileges
- .861 Remitted duties Free importation
- .862 Free postage Franking privilege
- .863 Lower rates or special facilities Cheap library post
- .87
- .88 State or local hindrances Politics
- .89 Library legislation  
 General; laws for a special subject are class with the subject; e.g. law for a library commission 021.82; law against injuring library books 024.8
- .891 National legislation
- .892 State "
- .893 Local legislation (county, city or village)
- .894-.899 Legislation in special countries or places  
 Divided like 940-999
- .9 **Support, raising funds, etc.**  
 For state aid separate from local help see 021.8
- .91 Taxes Appropriations Subsidies
- .92 Endowment
- .93 Gifts of money or books  
 See also 021.84 Government gifts
- .94 Bequests
- .95 Subscriptions
- .96 Lectures Fairs Entertainments, etc.  
 For raising money. For educational purposes see 021.43-.45
- .97 Membership fees

## 022 Library bildings

See also 727.8 Architecture. For care of bilding see 025.9

- .1 **Location, site, etc.**
- .11 Location with reference to field of work
  - Accessibility to population servd, to other libraries, educational institutions, etc.
- .12 Site
  - With reference to space, air, light, soil, slope of ground, etc.
- .13 Provision for growth      New bildings
- .14
- .15 Branches
- .16 Delivery stations
- .17 Newsrooms, reading rooms, etc.
- .2 **Material, protection**
- .21 Material: wood, brick, stone, steel, glass, etc.
  - Relativ fitness for library bildings. See also 620.11 Strength of materials: 691 Bilding materials
- .22
- .23
- .24 Fireproof construction
- .25 Protection against fires
  - Location and relativ efficiency of apparatus: hose, extinguishers, chemic engins, standpipes, etc. For watchman see 025.9. See also 614.84 Fire protection
- .26 Library fires, burning of libraries
- .27 Insurance
- .28
- .29 Other dangers
  - Flood, earthquake, cyclone, war, etc.
- .3 **Design      Plans      Construction**
  - Alfabet plans, elevations, exteriors, general descriptions, etc. by name of library. Use .31-.33 only for indexing
- .31 By kind of library
  - Divided like 027. Group plans for public libraries, 022.314, in 3 subsections
    - 022.3141 Libraries under 20,000, small; i.e. under this number list plans of such libraries, but shelv them in their alfabetic place under 022.3
    - .3142 Libraries from 20,000-100,000, medium
    - .3143 Libraries over 100,000, large
- .32 By subject
  - Divided like 026; e.g. under 022.3234 list plans of law libraries so that they may be readily referd to in 022.3, or in journals or reports clast elsewhere
- .33 By country
  - Divide like 930-999 and use like 022.31-.32 only for reference
- .34 **Design and decoration**
  - Divided like 729 as follows:
- .341 **Elevation, style**
  - Only for general discussion; class elevation of a special library under 022.3
- .342 **Plan**
  - Number, distribution and dimensions of rooms; special forms, spiral circular, etc. See note under 022.341

- 022.343 Artistic forms
- .344 Painted decoration, etc.
- .348 Stained glass
- .349 Accessories and fixt furniture
  - Include paintings, statues, busts, etc. as decoration for bilding. Special library furniture, bookcases, loan desks, etc. are 022.9
- .35 Construction
  - Divided like 721. Class here only discussions limited to library bildings
- .36
- .37 Library rooms as part of other bilding
- .38
- .39 Remodeling old bilding
  - Either other bildings (churches, residences, etc.) for library purposes, or remodeling a library to meet modern conditions
- .4 Storage and shelving
- .41 Storage
  - Capacity per square meter of floor, or running meter of cases; allowance for growth
- .42 Shelving round sides of room
- .421 Wall cases
- .422 Alcoves
- .423 Galleries
- .43 Stacks
- .431 Stack rooms
  - Dimensions, maximum width with natural light only. Number of rooms, one or several. Number of floors
- .432 Arrangement of cases
  - Parallel, radial; light; open access, supervision
- .433 Movable cases
- .434 Ailes
  - Position, width
- .435 Flooring of stack rooms
  - Solid, glass, open grating
- .438 **Maximum floor load**
- .44 Cases, tiers
- .441 Material; wood, metal, glass
- .442 Dimensions of case and tier, height, length
  - See also 022.452 Dimensions of shelf
- .443 Plan of cases
  - Open or closed ends and backs; 1 or 2 ledges
- .444 Fixt or movable shelvs
- .445 Quarto and folio shelving
- .45 Shelvs
- .451 Material
  - Wood, metal, glass, stone, sheet iron, skeleton steel
- .452 Dimensions; length, depth, thickness; standard shelf
- .453 Surface finish or covering
  - Paint, varnish, cloth or lether covering
- .454 Shelf supports: pins, brackets

- 022.46 Cases and shelvs for large books, lying flat  
Dimensions, sliding or roller shelvs, etc.
- .47 Closed cases Doors: glass, screen or wood
- .48 Special cases
- .481 Hanging presses
- .482 New-book cases
- .483
- .484
- .485 Cases for maps, engravings, etc.
- .486 Cases for fotografs
- .487 Cases for lantern slides
- .5 **Reading rooms**  
See also 022.63 Rooms for special material
- .51 General reading room Central hall
- .52 Small reading rooms Study rooms  
Gallery study tables. For seminar and class rooms see 022.65
- .53 Reference room
- .54 Standard library
- .56
- .57 Women's room
- .58 Children's room
- .6 **Administration and special rooms**
- .61 Rooms for trustees or outside organizations
- .611 For trustees
- .612 " committees, commission, school board
- .613
- .614 " local societies
- .62 Administration rooms  
Divided like 025
- .63 Rooms for special material  
Divided like 025.17; e.g. 022.6332 Newsrooms
- .64 Special collections: patents, local history, etc.
- .65 Instruction rooms, etc.
- .651 Lecture room or hall, theater, concert
- .653 Seminar room, class room
- .655 Museum
- .656 Art gallery
- .657 Exhibition room
- .658 Photografic and dark room
- .659 Piano and music room
- .66 Recreation rooms
- .661 Conversation room
- .662 Chess room
- .663 Other games
- .664 Billiards
- .665 Bowling



- 022.666      Gymnasium
- .67
- .68      Public rooms      Lavatories, etc.
- .681      Entrance halls and corridors
- .682      Waiting room
- .683      Telephone booth or room
- .684      Lunch room
- .685      Coat room
- .686      Toilet room, lavatories, etc.
- .687      Garage, bicycle room, etc.
- .69      Residence rooms
- .691      Librarian
- .695      Janitor

**.7      Lighting**

- .71      Natural lighting; windows
  - For architectural side see 022.358; for stained glass see 022.348
  - Position of windows; size and number; shape.      Provision for opening; sliding, hinged or pivot sash, French casement
- .72      Skylights
- .73      Prisms
- .74
- .75      Artificial lights: materials
- .751      Lamps, oil, etc.
- .752      Gas
- .753           Acetylene
- .754           Electricity
- .76      Fixtures
- .762      Portable or semiportable lights
- .763      Table lights
- .764      Standards
- .765      Bracket lamps
- .766      Chandeliers
- .77      Lighting of stacks by electricity
  - Fixt or movable lights

**.8      Heating and ventilation**  
General hygiene of library.      Divided like 697

**.9      Fixtures, furniture, fittings**

- .91      General furniture
- .911      Chairs
- .912      Tables
- .913      Desks
- .914      Revolving cases
- .915      Bases
- .916      Vertical files
- See also 651 Office equipment

- 022.92 Public conveniences
  - .921 Hatracks
  - .922 Umbrella stands
  - .923 Clocks
  - .924 Bulletin boards
  - .93 Furniture for exhibiting or using books, pictures, etc.
  - .931 Exhibition cases, fixt or movable
  - .932 Wing frames
  - .933 Easels
  - .934 Reference book holders
  - .94 Appliances for getting or carrying books or messages
    - .941 Ladders, stepladders
    - .942 Book trucks
    - .943 Carrying trays
    - .944 Mechanical carriers
      - See also 621.867 Conveyers Telferage
    - .945 Book lifts
    - .946 Pneumatic tubes
    - .947 Speaking tubes
    - .948 Interdepartment telefones
      - See also 621.3853 Intercommunicating telefones
  - .95 Elevators
    - For carrying persons, goods, etc. See also 621.877. Class here only discussion of them for library use. For book lifts see 022.945
  - .96 Floor coverings
    - For permanent flooring see 022.356
    - .961 Linoleum, corticine
    - .962 Matting
    - .963 Carpets
    - .964 Rugs
    - .965 Door mats: rubber, wire, etc.
    - .97
    - .98
    - .99 Desk fittings, etc.
      - Divided like 651

## 023 Government and servis Personnel

- For government of special kinds of libraries see 026 and 027
- .1 Constitution and bylaws for governing board
  - Charters. Local ordinances, etc.
- .2 Appointment and tenure of offisers under governing board
  - State or local civil servis. Special library examinations. Promotions. Probationary appointments. Temporary or limited period appointments. Appointments by executiv offiser



- 023.3 Governing board**  
 Trustees, committees, directors, regents, etc.
- .31 **Method of selection**  
 Election, appointment, exofficio trustees, close corporation, i.e. self-perpetuating body
  - .32 **Number**
  - .33 **Qualifications**
  - .34 **Women as trustees**
  - .35 **Powers and duties**
  - .36 **Financial administration**
  - .37
  - .38 **Time and place of meetings**
  - .4 Executiv Consulting librarian Library expert**  
 For appointment see 023.2. See also 023.5-9, which apply to executiv as well as to staff
  - .43 **Responsibilities and privileges**
  - .5 Staff**  
 Including all subordinate positions. For method of appointment see 023.2
  - .51 **Qualifications**
  - .52 **Personality Character Moral and social equipment**
  - .53 **Mental equipment Natural ability**
  - .531 **General education**
  - .532 **Professional education Training**  
 See also 020.7 Library schools
  - .535 **Reading of librarians**
  - .54 **Physical equipment Helth Exercise**
  - .55 **Staff meetings Relations to hed**
  - .56 **Women as librarians**  
 Including difference in salaries of men and women
  - .57 **Worries and trials**
  - .58 **Longevity**
  - .59 **Library benefit associations**  
 See also 020.626
  - .6 Daily hours Holidays and vacations**
  - .61 **Daily hours**
  - .611 **Records Record clock**
  - .612 **Punctuality Tardiness**
  - .62 **Hours for meals Lunch room**  
 See also 022.6 Special rooms
  - .63 **Special work**
  - .631 **Evening**
  - .632 **Sunday**
  - .633 **Holiday**
  - .64 **Work by hour Overtime, extra hours**
  - .641 **Making up lost time**
  - .642 **Payment for overtime**
  - .643 **Effect of overstrain on employees**
  - .644 " " **on servis**

- 023.65 Holidays
  - .651 Weekly half holiday
  - .652 Legal holidays
  - .66 Vacations
    - .661 Time of year
    - .662 Length
    - .663 Continuous or in instalments
    - .664 Sabbatic year
  - .67 Absences for sickness or other causes
    - See also 023.641 Making up lost time
  - .68 Attendance at meetings
    - .681 International
    - .682 National
    - .683 State
    - .684 Local
- .7 **Titles and duties**
  - .701 Specialization      Monotony      Change of work
  - .702 Understudies
  - .71 Executiv      Director
    - Chief or principal librarian, keeper, etc.
  - .72 Department, division or section heds
    - Librarians, sublibrarians, chiefs, heds
  - .73 Reference staff or faculty
    - Librarians of special subjects
  - .74 Assistants      Catalogers
  - .75 Pupil assistants, apprentices, volunteers
    - Paid mainly by instruction
  - .76 Clerical servis
    - .761 Stenografers
    - .762 Typewriters
    - .763 Clerks
  - .77 Mechanic servis
    - .771 Binders
    - .772 Electricians
    - .773 Carpenters
    - .774 Other mechanics
  - .78 Pages, messengers, ushers, runners
  - .79 Janitor servis
    - .791 Janitor
    - .792 Watchman
    - .793 Elevatormen
    - .794 Attendants, in coat room, etc.
    - .795 Porters and packers
    - .796 Cleaners, etc.

023.8 Salaries  
Divided like 023.7. See 023.56 for difference between salaries of men and women

.9 Rules for staff Codes  
Made by trustees or librarian  
For punctuality see 023.612. For absences or sick leave see 023.67

.91 Conversation  
.92 Personal calls or work  
.93 Soliciting money, subscriptions, contributions  
.94 Respect and care for library property  
.95 Uniforms  
.96 Curtesy Indifference  
See also 174 Business ethics; 177.1 Curtesy (social ethics)

## 024 Rules for readers

For reference and circulating departments

.1 Readers qualifications  
.11 Age  
.12 Residence  
.13 Relations to community  
Membership in society, club or institution; official position; profession, etc.  
.14 Responsibility  
Reference, guarantor, money deposit  
.15 Registration  
.16 " for limited period  
.2 Fees Assessments Free use  
.21 Membership fees  
Mercantile libraries, atheneums  
.22 Book fees  
Circulating library fees. For fines see 024.6  
.23 Fees for readers card, etc.  
For petty expenses to guard against wastefulness  
.24  
.25 Extra library fees; e. g. college library  
.26 Public library fee  
For subscription departments see 024.7  
.27  
.28 Free use  
.3 Hours of opening  
.31 Number of hours  
.32 Time of day: morning, afternoon  
.33 Evening opening  
.34 All night "  
.35 Intermission for meals  
Closing library during lunch, dinner or supper hours  
.36 Hours for reference and circulating departments  
.37 Cooperation of local libraries  
Agreement on hours so that some library shall always be open

- 024.4 Days of opening or closing
  - .41 Sunday
  - .42 Special religious days
  - .43 Holidays
  - .44 Vacation, summer
  - .45 Inventory Examination
    - Closing for annual examination of library
  - .46 Special occasions
    - Closing for recataloging or rearrangement; public calamity, deaths
  - .47 Closing for epidemics
- .5 Reference use
  - .51 Reading room rules
  - .52 Decorum in library
    - Unwelcome visitors; library cranks
  - .53 Ladies in reading room
    - For women's separate reading room see 022.57
  - .54 Access to catalogs
    - For access to librarian see 023.43
  - .55 Open reference shelves
  - .56 Open shelves in general
  - .57 Restricted or selected access to shelves
    - Restriction as to persons or subjects
  - .58 Library censorship of news
    - Obliteration or suppression, in reading room copies, of newspaper reports tending to lower morals; e.g. betting and racing news, reports of crime, criminal trials. See also 021.201 Paternalism
- .6 Home use Loans
  - .61 Number of books
  - .611 Two book system
  - .612 Summer vacation cards
  - .62 Time: 7-day books, new periodicals
  - .63 Delinquencies Fines
    - For injuries, etc. see 024.8
  - .64 Renewals
    - Extension of loans by library
  - .65 Relending
    - Lending by borrowers
  - .66 Reservations
  - .67 Restricted books
    - .671 Reference
    - .672 Rare or costly
    - .673 Medical
    - .674 Of immoral tendency Library inferno
      - See also 021.201 Paternalism
  - .68 Interlibrary loans
    - .681 International loans

**024.7 Special privileges**

- .71 Extra books Teachers cards
- .72 Extra time
- .73 Remission of fines Excuses
- .74 Favor classes: trustees, faculty, staff
- .77 Lending restricted books
- .78 Subscription department

Novels and popular new books lent for fee. Extra copies for rent in public (tax supported) libraries

**.8 Injuries Abuses**

- .81 Defacements
  - Marks; corrections, notes and comments
- .82 Mutilation
  - .83 Removal of plates, maps, etc.
  - .84 Mutilating newspapers
- .85 Losses by readers; payment
- .86 Thefts
- .87 Restitutions
- .88
- .89 Prevention of abuse

Methods of preventing injury and inducing better care of books. For library leag see 027.6

**.9 Other rules**

# 025 Administration Departments

## SUMMARY

Supervision	025.1	Executiv
Acquisition	.2	Accession
Utilization	.3	Catalog
	.4	Classification
	.5	Reference
	.6	Loan
Preservation	.7	Binding
	.8	Shelf
	.9	Care of bilding

025 is for the librarian's part. The trustees bild and furnish (022); make rules for government and servis (023), and regulations for readers (024); but the administration involvs questions of its own, which, however, are closely allied to topics in 021-024 and elsewhere; e. g. the librarian must know his side of binding, and be able to give proper directions and supervision, but need not know all the details of the binder's craft (686)

Administration includes .1 Supervision .2 Acquisition .3-6 Utilization .7-9 Preservation; i. e. the librarian's duty to books is to Get, Use, Keep

## .I Executiv General supervision

### .II Finances

See also 023.36 Financial administration of governing board

### .III Invested funds, endowments, gifts

See also 021.9 Support

### .II2 Appropriations: local or state

See also 021.8 Libraries and the state

### .II3 Other money receivd

Fees, assessments, fines, payments for special servises and investigations, etc.

### .II4 Accounts: receipts and expenses, bookkeeping

### .II5 Salary payments Staff payrolls

See also 023.8 Salaries

### .II6 Expenses: fittings, supplies and incidentals

Class with a department supplies peculiar to it, their kind, quality, cost, etc; e.g. catalog cards with 025.3. For bookbuying see 025.2

### .II7

### .II8 Cost of preparing books for shelvs

### .I2 Printing and publications

Both preparation of material and details of printing, including size, style, type, etc.

### .I21 Blanks and forms, stationery

If relating to a special department class with it; e.g. bookplates in 025.2

### .I22 Publications

### .I23 Reports and statistics

See also 027

### .I24 Catalogs

See also 017-019. For cataloging see 025.3

### .I25 Bulletins

Frequency, advertisements, etc. See also 017-019. For preparation of book lists see 025.3

### .I26 Library magazine or paper

### .I27

### .I28

### .I29 Duplicating by neostyle, carbon etc.

For machines and processes see 652. Class here discussion of fitness for library applications only

- 025.15 Correspondence
- .151 Stationery
  - Material, weight, size and headings
- .152 Stenografers, dictation machines
- .153 Typewriters
- .154 Copiers
  - Roller, press, carbons, portable. See also 025.129
- .156 Letter files
  - See 029.3 for methods
- .17 Treatment of special material
  - For general discussions. Class special work under each department: e.g. cataloging of incunabula in 025.3
- .171 Manuscripts and rarities
  - Divided like 090
- .172 Pamflets
- .173 Serials, documents, etc.
  - 1 Periodicals, magazines, etc.
  - 2 Newspapers
  - 3 Annual reports
  - 4 Documents; national, state and local
- .174 Broadsides
- .175 Clippings
- .176 Maps and charts
- .177 Art material
  - Engravings, fotografs, drawings, lantern slides
- .178 Music: scores, rolls, etc.
- .179 Museum material
- .18 Administration of individual libraries
  - Alfabet by name of library. For administration of special kinds of libraries see 026 and 027

## SUMMARY

- 025.21 The library and its selection  
 .22 Methods of acquisition  
 .23 Ordering and receiving  
 .24 Accessioning  
 .25 Marks of ownership  
 .26 Duplicate and exchange department  
 .29 Special material
- .21 The library and its selection
- .211 What? Proper proportion of subjects  
 Division of funds; endowments for special subjects; accession statistics
- .212 Specilization by libraries  
 Division of subjects among local libraries. See also 021.64 Coopera-  
 tion. For collections on special subjects, economics, science etc. see  
 026
- .213
- .214 Who? Selectors of books  
 Trustees or trustee committee; librarian; staff committee, book board;  
 advisory committee from outside; experts; central body (bibliographic  
 bureau, state commission, etc.)
- .215 How? Methods of selection  
 Recommendations by readers; personal examination; visits to book  
 stores; books sent on approval; printed reviews; first selection for new  
 library  
 For lists of best books, A L A catalog, annual lists, etc. see 016  
 For principles of selection and choice of editions see 028.2  
 For selection for special classes see 027.6, 027.8, 028.5
- .216 Buying fiction  
 Duplicating popular fiction; extra copies of best fiction
- .217 Rejection, exclusion, censorship  
 Pernicious literature; badly made books; yellow journals See also  
 021.201 Paternalism
- .218 Weeding out, sifting  
 Separating books no longer of servis to library. For withdrawal book  
 see 025.249
- .22 Methods of acquisition
- .221 Buying new books  
 Local bookstore; book center, general agent; publishers; subscription  
 agent; bids on special lists; foren books thru home or American agent,  
 thru foren agent. See also special material 025.29
- .222 Prices Discounts  
 Net books. For free importation, see 021.861
- .223 Buying old books  
 Secondhand catalogs; remainders, trade sales; dealers in old books,  
 bookstalls; value of old books
- .224 Auctions  
 For auction catalogs, see 017-019
- .225 Buying libraries in block
- .226 Exchange
- .227 Gifts  
 Request blanks and records; gift lists; acknowledgments; privately  
 printed books; propagandist books  
 For government documents and copyright books see 021.84  
 See 025.268 for gifts from library to library



- 025.23    Ordering and receiving  
           For gifts, see 025.227; for exchanges, see 025.266
- .231    Ordering  
           Order slips or lists; order books or sheets; copies of orders; order index;  
           order numbers
- .232    Examination for duplicates and verification  
           Misspeld names; changed titles; separates
- .233    Reception and opening  
           Express, mail, etc; frequency of shipments; free delivery
- .234    Checking bills  
           Prices and amounts
- .235    Collation
- .236    Receipt index
- .24    Accession book
- .241    Importance of record  
           Accession book vs shelflist, etc.
- .242    Printed headings    Items    Fulness of entries
- .243    Accession number: volume, work or invoice
- .244    Accession stamp
- .249    Withdrawal book
- .25    Ownership marks
- .251    Private marks
- .252    Stamping  
           Ink, embossing, or perforating stamp.  
           Table and foot power
- .253    Book plates    Plating  
           See also 097
- .254    Library name on outside of book  
           Gilding or impressing name of library on back or covers
- .255    Card pockets
- .26    Duplicate and exchange departments
- .261    Duplicates  
           Definition, rules and decisions, marking, stamp, plate, etc.
- .262    Duplicates of institution's own publications  
           Either of library or larger organization including it; e.g. duplicate Colum-  
           bia publications in Columbia university library; stock on hand
- .263    Cataloging
- .264    Arrangement
- .265    Sale for cash
- .266    Exchange  
           General exchange of publications; exchange accounts
- .267    Clearing house for duplicates  
           See also 021.852 Vattemare international exchanges, Smithsonian ex-  
           changes
- .268    Gifts to other libraries
- .269    Small libraries, hospitals, prisons, etc.  
           Large libraries, material not needed in small libraries deposited in great  
           collections, see 025.218
- .29    Special material  
           Divided like 025.17

**Catalog**

For printed catalogs themselves, see 017-019. This is for *cataloging*  
 Printed, manuscript, or card; Author, subject, title, class; Dictionary or  
 combined; Cooperativ rules; Size notation; Cooperativ cataloging;  
 Duplicated titles, print or photography; Mechanical accessories, cards,  
 cases and fittings, drawers, trays, blocks, checks, guides, labels

.4

**Classification**

For philosophic classification of knowledge, see 112 Methodology. This is  
 for practical classing of books, pamphlets, and notes, rather than theo-  
 retic speculation

On shelves; in catalogs; in dictionary catalogs; Systems of notation, fig-  
 ures, letters, symbols, combined; Importance and advantages; Diffi-  
 culties; Close vs broad classing; Mnemonic features; Basis of division;  
 Coordination of special subjects

.5

**Reference Reference books Aids to readers**

See 028 for general discussion of reading and aids. This is limited to  
 library administration

.6

**Loan**

See 024.1 and 024.6 for regulations

Indicators; Charging systems, legers vs cards; Book cards, marks, pockets;  
 Call slips, readers cards; Notices, reserves; Registers; Interlibrary loans;  
 Mechanical accessories, slip cases, trays, tills, stamps, etc.

.7

**Binding and repair**

See also 686 Bookbinding

Materials, durability, tight vs spring backs, sewing, color, lettering; Paper  
 covers and temporary binders; Restoring, mending, cleaning, and oiling

.8

**Shelf**

See 022.9, Shelving

Arrangement; Shelf numbers; Shelf and book labels; Fixt and relativ  
 locations; Sizes of shelves; Arrangement and preservation of public  
 documents, pamphlets, papers, manuscripts, maps, drawings, and plans,  
 music, broadsides, clippings; Injuries, heat, gas, insects; Stock taking;  
 Shelf lists

.9

**Bilding: care, cleaning, safety Janitor Police**

See 022 for bilding and fittings. This is janitor's department

## 026 Libraries on special subjects

Histories, reports, statistics, bulletins, handbooks, circulars, and everything about the library not more required in preceding sections. Subdivided by adding the class number of subject; e. g. a Medical library is 026.61; a Chess library, 026.794; but the *catalog* of a chess library is 026.794. Blanks, etc. from any library go under subjects in 025, as more used in studying topics; but, if history of individual libraries is specialized, duplicates are also desirable under the library in 026-7, thus making a complete set of its publications

## 027 General libraries

This includes both circulating and reference: i. e. all not limited to special subjects

Subdivided if wisht by countries, like 930-999; e. g. 027.744 College libraries in France. Or if wisht, group all by geografic location, using 0 in 4th place to indicate no division by *kinds* of libraries; e. g. 027.044 Libraries of France; 027.07471 Libraries of N. Y. city

A private library is still clast 027.1, after it has been sold or merged in a public library. But a society library changed to a free public should take 027.4 for all publications after the change

### .1 Private and family

### .2 Proprietary, society, club and Atheneum

.2 is limited to libraries that are semiprivate, requiring an election for admission, while .3 includes all open to any one on payment of a fee. It is the difference between a club and a hotel. .3 is for libraries run as a business. A mercantil library, even tho it has endowments, if open without individual election, goes in .3 as a subsidized public subscription library. Many private subscription libraries go in .2

### .3 Subscription Circulating

Mudie's, Booklovers, etc.

### .4 Free public Rate supported Endowd

See also 331.85; and 027, last note

### .5 State and government

### .6 For special classes

Institution, prison, reformatory, asylum, monastic, workmen's, factory, railroad, sailors, lighthouse, itinerating. A workmen's library of books on engineering is 026.62, not here, as the subject is more useful than the class of readers

### .7 College

### .8 School Sundayschool Parish

See also 371.64 Libraries as school equipment; 021.3 Library in relation to schools and the young

### .9 Free newsrooms and reading rooms

See also 331.85

## 028 Reading and aids

See 374.1-2 Self education by private reading and reading circles

### .1 **Methods**

Tasting, skipping, reviewing, making synopses, abstracts, extracts, and index rerums (see 029), book marking

### .2 **Choice of editions**

Annotations, indexes, paper, type

### .3 **Courses of reading**

Both discussion and lists of books

For sets of books representing prescribed courses for general culture, e. g. *Harvard classics*, see 080

### .4 **Fiction Novel reading**

Discussion. Short selected lists may be put here, the all fiction lists are better together in 016.823 (in German libraries 016.833, French libraries 016.844, etc.)

### .5 **Reading of young Juvenils**

Both discussion and lists of books

### .6 **Professorships of books and reading**

Lectures. Stimulus and guidance in schools

### .7 **Use of reference books**

### .8 **Aids to readers**

Guidance, printed or personal. See also 028.6 and 025.5

### .9 **Character of reading in libraries**

## 029 Literary methods and laborsavers

Much in 025 and 028 belongs equally under 029 in its full meaning, but practical convenience is best served by referring to 025 and 028 insted of repeating the heds

### .1 **Methods**

Exact reference; standard sizes; use of colors; thought study; intercalation or card system (see 025.3); cooperativ methods; records vs memory, etc. See 653 Abbreviations and shorthand; 154.1 Mnemonics; 025.4 Classification

.1 is for what one *learns* how to do by an improved *method*

.2 is for articles which one must make or buy in order to utilize. Where a pamphlet covers both appliance and method, class with predominant feature

### .2 **Appliances Laborsaving tools and devices**

See also 651. Most literary laborsaving devices go also under 651, Offis equipment and methods; and are best kept together there; e. g. all offis and study furniture, fittings and supplies, cases, bookholders, reading desks, pigeonholes, files, etc. For pamphlet, map, etc. cases, see 025.8; for binders, 025.7

### .3 **Clippings Scrapbooks or files**

See also Files, 651

### .4 **Notebooks, notetaking, abstracting, etc.**

### .5 **Indexing Index rerums Printed and patent indexes**

For alfabeting and transliteration see 025.3

### .6 **Authorship Writing for press Copy and proof**

See also 655.25 Proofreading; 655.52 Relations to publishers

.7

.8

.9

The Divisions 030-070 below are all subdivided; 1 American; 2 English  
3 German; 4 French; 5 Italian; 6 Spanish; 7 Slavic; 8 Scandinavian; 9 Other

- 030 **General cyclopedias**
- 040 **General collected essays**
- 050 **General periodicals Magazines**
- 060 **General learned societies Museums**

Academies of Paris, Berlin, Vienna, etc. Societies on a specific subject go with that subject; e. g. 550.6 Geologic societies. See also 360 Institutions and associations, for philanthropic, political, social and similar organizations

## 070 **Journalism General newspapers**

See also 029.3 Clippings Clipping bureaus

179.1 Morals of the press

322 Liberty of the press (political science)

351.751 Regulation of the press (government administration)

396.507 Women in journalism

655 Printing Publishing Copyright

741 Cartoons Caricatures

### .1 **Utility Theories Relations to other professions**

For government relations see 070.15

### .11 **Standards Ethics Influence Responsibility**

General and higher view, educativ influence; for degradation of the press see 070.16

### .12 **Endowd newspapers**

Independence of popularity

### .13 **Liberty of the press Censorship**

Individual privacy; diplomatic secrets; seditious or anarchic influence

See also political science, 323 Domestic relations

### .14 **War censorship**

### .15 **Subservience to special interests**

Use by sectarian, partizan or private interests. Government relations and influence: subsidies, 'reptil fund'

### .16 **Sensational or 'yellow' journalism**

Fictitious news; scandals, murder and divorce trials; blackmail, bribes

.17

### .18 **Anonymous journals**

Those with editors or place of publication unknown

### .19 **Other general questions**

Comparison of field, importance and influence of newspaper, periodical and book

### .2 **Ownership and control**

#### .22 **Newspaper names**

#### .23 **Location**

#### .232 **Metropolitan Large city**

#### .234 **Provincial Small city**

#### .236 **Rural or village**

#### .26 **Syndicates Patent insides**

- 070.3 **Business management**
  - .31 **Staff and workmen**
    - .311 **Offis staff**  
 Manager, stenografers, bookkeepers, clerks, messengers
    - .312 **Workmen**  
 Compositors, foundrymen, pressmen, mechanics, laborers
    - .315 **Hours, shifts**
    - .318 **Newspaper strikes**
    - .32 **Newspaper printing**  
 Class here discussion of economy and other advantages of special methods and appliances  
 For mechanism and operation of newspaper presses see 655.31 Printing presses
      - .321 **Size of page**
      - .322 **Methods and appliances**
        - 2 **Composition: linotype, monotype, etc.**
        - 3 **Stereotyping**
        - 4 **Presses**
      - .324 **Newspaper cuts: wood, zinc line, halftone**
      - .325 **Frequency of issue**  
 Daily, semiweekly, weekly, etc.
      - .327 **Time of issue**  
 Morning, evening, successiv editions, extras
      - .328 **Size of editions, number printed**
      - .33 **Distribution      Circulation      Sale**
        - .331 **Direct: subscription      Mailing**
        - .332 **House delivery**
        - .334 **Indirect: newsboys, news agencies, etc.**  
 Crying and peddling in streets and news stands
        - .336 **Advertizing methods**  
 Subdivided like 659.1 Advertizing
        - .337 **Specialties**  
 As means of increasing circulation. For special departments see 070.43  
 Regular: foren or marine news, stocks, sporting, etc.  
 Occasional: adoption of popular causes, exposure of abuses, etc.
        - .338 **Other means of increasing circulation**  
 Competitions, guessing contests, prizes, fairs, lotteries, expeditions, etc.
      - .34 **Cost of production      Expenses**
        - .341 **Plant: bilding and equipment, offises**  
 Duplicate plant. Depreciation of machinery
        - .343 **Supplies: paper, stationery, etc.**
        - .344 **Salaries and wages**  
 Space rates. Pay of journalists, pecuniary inducements of vocation.  
 Traveling expenses
        - .345 **Postage: pound rates, free carriage**
        - .348 **Advertizing**  
 Necessity and cost of advertizing itself to gain circulation and secure advertizements. For methods see 070.336
        - .349

- 070.35 Sources of income      Receipts
  - Sales, subscriptions, subsidies. For bribes see 070.16
- .36      Adverting department
  - Including all business pertaining to a journal's advertizing colums. For advertizing agencies see 659.1
- .39      Foren offices
  - Subdivided like 940-999; e.g. *N Y herald* office in Paris 070.3944
- .4      Editorial management
- .41      General
  - Editing rules: order of departments and articles; style; newspaper diction
- .42      Staff: reporters, correspondents
  - Organization: hours, duties. For pay see 070.344
- .43      Editorial departments
- .43 I      News
  - 1      Sources and channels of news
    - Telegraf, telephone, wireless, mail, reporters, carrier pigeons, other. Utilization and precautions; conflicting news
  - 2      Press bureaus: associated press
    - Laffan and other news bureaus. For clippings see 029.3 under Literary methods and labor savers
  - 5      Foren
  - 6      Home
  - 7      Local
- .432      Leaders, editorials
- .433      Local interests
  - Discussion of local affairs, questions affecting schools, library, public works, etc. For local *news* department see 070.4317
- .44      Special subjects: departments and editors
- .443      Financial: stocks, business, shipping, etc.
- .445      Household      Home      Women      Children
  - 2      Cookery
  - 4      Clothing      Fashions
  - 6      Hygiene      Care of children
  - 7      Women's clubs
  - 8      Children's department: games, puzzles, etc.
- .446      Recreation      Sporting
- .447      Art, musical and dramatic
  - 7      Art
  - 8      Musical
  - 9      Dramatic
- .448      Literary
  - 1      Poetry
  - 3      Fiction
- .449      Other departments
  - 2 Religion; 3 Education; 5 Science; 8 Humor

- 070.45 Voluntary correspondents Contributors
  - .47 Special editions
    - Sunday newspaper. Supplements. For extras see 070.327
  - .48 Special kinds of journals
  - .481 Official journals
  - .482 Religious
  - .483
  - .484 For foren population
    - In language foren to country in which publish
  - .485 Propagandist
  - .486 Professional and technical
  - .487 Humorous
  - .488 Literary
  - .489 Other: amateur, etc.
- 070.5-.9 Form divisions
- .5 Periodicals on journalism
  - .6 Press clubs Conventions Expositions
  - .7 Study and teaching of journalism College courses
    - Schools Personal qualifications for journalism
  - .9 History of newspapers and journalism
    - General History of American newspapers 071, of German journalism 073, etc.
    - Class history of a particular journal with that journal

## 071-079 Newspapers of various countries

The 3d figures 1-9 are used as follows:

1 American	4 French	7 Slavic
2 English	5 Italian	8 Scandinavian
3 German	6 Spanish	9 Other

In large collections use geografic divisions under 1, American; 2, English, etc. as in 970 and 940-999. Because of large size and very general character, it is better to keep newspapers together here than to class with local history of the place where published. They could not go on shelvs with ordinary books, and a reference is made as easily to them under 070 as anywhere.



## 080 Special libraries Polygraphy

For sets or 'libraries' so constituted as not to be readily scattered by subjects, and miscellaneous information; but class in 803 literary questions and answers, even tho not alphabetic. Collections conditioned by terms of gifts on being kept together may be put here, but for preferable treatment of sets, see Introduction p. 28<sup>3</sup>, section 10, and p. 35<sup>3</sup> under Reference library. If limited to a special subject, treat like Phoenix library, but shelve the collection in a block before or after the regular books on the same subject; e. g. the Doe collection on Spanish painting, D759.6, would stand together, yet would be where it belonged with the rest of the books on that subject.

## 090 Book rarities

Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakspeare goes in 822.33 with reference from 099. 090 is mostly used for grouping references to books located elsewhere

### 091 Manuscripts Autographs

Photographs of mss go with subject rather than here

For Diplomatics and Paleography, see 417, and under the special language, 421.7, 431.7, etc.

### 092 Block books

### 093 Early printed books Incunabula

### 094 Rare printing

Aldines, Elsevirs, Caxtons, etc. Privately printed books; unique books

### 095 Rare binding

Noted binders, costly ornament, curious bindings

### 096 Rare illustrations or materials

Illuminated Illustrated by inserted plates Printed on vellum, silk, bark, etc. in gold or silver letters, etc.

### 097 Ownership Book plates Ex libris

### 098 Prohibited Lost Imaginary

### 099 Other rarities Curiosa Minute size, etc.

# Philosophy

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## 100 **Philosophy in general**

Works limited to none of the 9 divisions

- 101 Utility
- 102 Compendis, outlines
- 103 Dictionaries Cyclopedias
- 104 Essays, lectures, addresses
- 105 Periodicals Philosophic magazines
- 106 Societies: transactions, etc.
- 107 Study and teaching of philosophy
- 108 Polygraphy, extracts, maxims, etc.
- 109 History of philosophy

## 110 **Metaphysics**

### 111 **Ontology**

Nature of being Substance and form

### 112 **Methodology**

Philosophic classification of knowledge Terminology For book classification  
see 025.4

### 113 **Cosmology**

Philosophic theories and discussion; for philosophy of mathematic processes  
see 510.1

- 114 Space
- 115 Time
- 116 Motion
- 117 Matter
- 118 Force
- 119 Quantity Number

## I20 Other metaphysical topics

I21 Theory of knowledge Origin Limits

Doubt, denial, belief

I22 Causation Cause and effect

I23 Liberty and necessity

See also 233.7 Freedom; 234.9 Predestination; 159 Will

I24 Teleology Final causes

I25 Infinit and finite

I26 Consciousness Personality See also 233.6 Doctrin

I27 Unconsciousness Automata

I28 The soul See 218 Natural theology; 237 Future state

I29 Origin of the individual soul

.1 By special creation See also 213 Creation

.2 By inheritance Traduction

See 575.1 Evolution; 136.3 Mental heredity; 233.3 Spiritual heredity

.3 Pre-existence

.4 Transmigration Palingenesis

.5 Emanation See also 147 Pantheism; 212 Natural theology

## I30 Mind and body Anthropology

I31 Mental physiology and hygiene *mental healing*

For influence of mind on body, mind cure, etc. see 615.851; see also 613.8  
Hygiene of nervous system

I32 Mental derangements

.1 Insanity See 362.2 Asylums; 920.8 Lives; 616.84 Disease

.2 Idiocy See 362.3 Asylums; 920.8 Lives; 371.922 Education

.3 Hypochondria Melancholy See 616.852 Hysteria

.4 Catalepsy See 616.852 Hysteria

.5 Ecstasies

.6 Kleptomania and other leading to crime

.7 Dipsomania and other leading to vice

See also 178 Temperance; 616.861 Alcoholism

.8 Mnemonic derangements

Not knowing in one state what past in another. See also 154 Memory

I33 Occultism Witchcraft Magic

.1 Apparitions Ghosts

.2 Hallucinations

.3 Divination Oracles Second sight Omens Predic-  
tions

.4 Witchcraft Sorcery See also 272.8 Persecutions

.5 Astrology See also 520.1 Astrology

.6 Palmistry

.7 Humbugs Quackery

.9 Spiritism Table-tipping, etc. See also 289.9 Sects

I34 Mesmerism Animal magnetism Clairvoy-  
ance  
*hypnotism*

135  
136

# Sleep Dreams Somnambulism

## Mental characteristics

See also 131 Mental physiology

- .1 As influenced by sex**  
See also 376.2 Mental capacity of women
- .2 " " " physical surroundings**  
See also 575.3 Evolution; 573.4 Natural history of man
- .3 " " " ancestry (Mental heredity)**  
See also 575.1 Evolution; 233.3 Spiritual heredity; 129.2  
Origin of soul; 613.92 Hygiene
- .4 " " " race Racial characteristics**  
See also 572 Ethnology
- .5 " " " age**  
See also 136.7 Childstudy
- .6 " " " physical structure and conditions**
- .7 Childstudy Paidology**  
Including adolescence
- .702 Methods**  
1 Laboratory  
2 Home
- .708 Observations, records Albums**
- .71 Body: structure, growth, care**  
Limited to development period  
See also 136.3 Mental heredity 612.65 Growth  
371.7 School hygiene 613 Hygiene  
612.64 Embryology 613.9 Heredity
- .72 Mind**  
Limited to period of physical development  
In a general library better class in 130 and 150 with only references here
- .73 Mental characteristics**  
Grouped by influence like 136.1-.6
- .74 Children's point of view**  
Divided like the classification: e. g.  
.7417 Ethics .7479 Games  
.742 Religion .748 Literature
- .75 Delineation of children**  
Psychology of children from authors' and artists' point of view
- .757 In art**
- .758 In literature**
- .76 Abnormal children**  
Study of development. For methods of instruction see 371.9  
For institutions see 362, 364
- .761 Physically defectiv**
- 1 Blind**
- 2 Def**
- 3 Blind-def**
- .762 Mentally defectiv**  
Divided like 132 Mental derangements; e.g. study of idiotic children  
136.7622
- .763 Morally defectiv Delinquents**
- .764 Wildings**  
Wildings: a class of children which, having been lost or deserted, have grown up away from the surroundings of children, alone or among animals.  
*Paidology* 1: 196 (July 1900)

- 136.765 Exceptionals Precocity  
 .766 Backward children  
 .767 Dependents  
 Homeless children, a public charge, lacking ideas and associations of children in families  
 .769 Other abnormal classes  
 .77 Boys The 'gang' The boy problem  
 .79 Childhood Divided like 930-999  
 .791 The child among uncivilized and semicivilized peoples
- 137 Temperaments  
 138 Physiognomy  
 Expression of mentality thru the body
- 139 Phrenology Mental photographs, etc.
- 140 **Philosofic systems**  
 The heds 140-149.9 are for the discussion of the systems as such. The filosofic works of authors of these various schools are clast under 190, not here. From these heds refer in the catalogs to authors clearly falling under them, without attempting to label each writer as an exponent of some one system
- 141 Idealism Transcendentalism  
 e. g. Plato, see 184.1, 888.4; Berkeley, see 192.3; Fichte, see 193.3; Emerson, see 191.3, 814.36
- 142 Critical filosofy  
 e. g. Kant, see 193.2
- 143 Intuitionalism  
 e. g. Reid, see 192.5; McCosh, see 191.5. See also 156 Intuitiv faculty; 171.2 Ethics.
- 144 Empiricism  
 e. g. Descartes, see 194.1; Bacon, see 192.1
- 145 Sensationalism  
 e. g. Locke, see 192.2
- 146 Materialism Positivism  
 e. g. Hobbes; Comte, see 194.8 See also 149.2 Realism
- 147 Pantheism Monism  
 e. g. Spinoza See 212 Natural theology
- 148 Eclecticism  
 e. g. Cousin, see 194.7
- 149 Other filosofic systems  
 See 211 Rationalism, skepticism; 214 Fatalism
- .1 Nominalism  
 .2 Realism See 146 Materialism  
 .3 Mysticism See 273.2 Heresies; 189.5 Medieval filosofy  
 .4 Associationalism  
 .5 Optimism Meliorism  
 .6 Pessimism  
 e. g. Schopenhauer, see 193.9 See also 216 Evil; 233 Doctrin of man  
 .7 Agnosticism  
 See 273.8 Agnostic heresy  
 .8 Nihilism  
 .9 Other systems

# 150 Mental faculties Psychology

For mind in animals see 591.51

151 Intellect Capacity for knowing  
.1 Genius

152 Sense Sense perceptions

See also physiology 612.84-88

Passiv or reactiv faculty

- .1 Vision
- .2 Hearing
- .3 Smell
- .4 Taste
- .5 Touch
- .6 Muscular sense

153 Understanding

See also 612.821 Physiologic psychology

Activ or thinking faculty

- .1 Conception The concept or notion
- .2 Association
- .3 Abstraction
- .4 Reflection
- .5 Judgment
- .6 Reasoning Induction and deduction

See also 160 Logic

154 Memory Reproductiv power

See also 132.8 Mnemonic derangements

.1 Mnemonics

155 Imagination Creativ power

.1 Fancy Imaging power

156 Intuitiv faculty Reason

For reasoning, see 153.6

157 Sensibility Emotions Affections

158 Instincts Appetites

159 Will

## 160 Logic Dialectics

See 153.6 Reasoning power. For logic of chance, see 519 Probabilities

- 161 Inductiv
- 162 Deductiv
- 163 Assent Faith  
See also 234.2 Doctrinal theology
- 164 Symbolic Algebraic  
Logical machines  
Logical topics
- 165 Sources of error Fallacies
- 166 Syllogism Enthymeme
- 167 Hypotheses
- 168 Argument and persuasion
- 169 Analogy Correspondence  
See also 219 Natural theology

## 170 Ethics: theoretic and applied

Many topics in applied ethics occur also in law, specially in 343 Criminal law

See also 377.2 Ethical education.

.1 .2 Societies; Society for ethical culture .7 Study and teaching .8 Polygraphy  
.9 History  
.2 Compends .3 Dictionaries .4 Essays .5 Periodicals

### 171 Theories Philosophy of ethics

Theories of the basis of morality

- .1 Authority Will of God Christian

For rules of Christian conduct see 241

- .2 Intuition Moral sentiment

See also 143 Intuitionism; 156 Intuitiv faculty

- .3 Perfection

- .4 Happiness Hedonism

- .5 Utilitarianism

- .6 Conscience Casuistry

- .7 Evolutionary or educational

- .8 Altruism

- .9 Egoism

### 172 State ethics

- .1 Individuals and the state Duties of citizens Patriotism

See also 320 Political science

- .2 Duties of public officers Official corruption

- .3 Relations to church

Duty of state as to support and protection of church

See also 261.7 The church; 322 Church and state; 272 Persecutions

- .4 International ethics Peace and war

See also 341 International law

- 173**      **Family ethics**
- .1      **Marriage and divorce**      See also 347.6 Family law
  - .2      **Polygamy and monogamy**      See also 298 Mormonism
  - .3      **Duties of husbands and wives**
  - .4           **Infanticide**
  - .5      **Duties of parents**
  - .6      **Duties of children**
  - .7      **Home life**
  - .8      **Masters and servants**      See also 647 Servants; 331 Labor
  - .9

**174**      **Professional and business ethics**

- .1      **Clergy**
- .2      **Physicians**
- .3      **Lawyers**
- .4      **Merchants**      **Business men**
- .5      **Speculation**
- .6      **Gambling**      See also 175
- .7      **Compact**      **Promis**
- .8      **Employers and employd**
- .9

**175**      **Ethics of amusements**      For amusements, see 790

- .1      **Public shows and diversions**      **Rinks, circuses, etc.**
- .2      **Theater**      **Opera**      **Private theatricals**
- .3      **Dancing**      **Balls**      **Round dances**
- .4      **Games of skill: billiards, chess, etc.**
- .5      **Games of chance: cards, dice, etc.**
- .6      **Prize fighting**      **Animal fighting: bull, dog, cock, etc.**
- .7      **Racing: horse, boat, pedestrian, wheel, etc.**
- .8      **Novel reading**
- .9      **Betting**      **Poolselling**      See 174.6

**176**      **Sexual ethics**

- .1      **Chastity**
- .2      **Celibacy**      See also 254 Celibacy of clergy
- .3      **Continenec**
- .4      **Solitary vice**
- .5      **Social evil**      See also 258 Parish care of fallen
- .6      **Adultery**
- .7      **Immoral art**
- .8      **Immoral literature**
- .9



## 177 Social ethics

- .1 **Curtesy**  
See also 395 Etiquet
- .2 **Conversation Gossip**  
See also 374.1 Self culture
- .3 **Truth Slander Flattery**
- .4 **Dress Display Sumptuary legislation**
- .5 **Caste Class feeling Welth and rank**  
See also 294 Brahmanism; 331 Capital and labor
- .6 **Friendship Courtship Coquetry**
- .7 **Philanthropy Humanity**
- .8 **Solitude vs social obligations**
- .9

## 178 Temperance Stimulants and narcotics

- General works on Temperance may be divided by form into .04 Essays  
.05 Periodicals; .06 Societies; .07 Teaching; .09 History.  
See also 132.7 Dipsomania; 331.84 Laboring classes; 613.3 Beverages; 613.8 Nervous system
- .1 **Use of intoxicating drinks Beer drinking Medicinal use**  
See also 616.861 Alcoholism
  - .2 **Total abstinence vs temperance**
  - .3 **Social drinking Wine at table Treating**
  - .4 **Traffic in intoxicating drinks License High license**  
See also 336.27 Taxation
  - .5 **Prohibition**  
Including legal discussion of prohibition. See also 329.81 Prohibition party
  - .6 **Reformatories Inebriate asylums, etc**  
Discussion; for institutions themselvs see 362
  - .7 **Tobacco**
  - .8 **Opium Hashish Chloral Ether and other drugs**
  - .9 **Gluttony and other intemperance**

## 179 Other ethical topics

- .1 **Morals of the press Newspapers**
- .2 **Cruelty to children**  
Including general humane societies covering work for both children and animals. See also 173.4 Infanticide; 331.3 Labor of children
- .3 **Cruelty to animals**
- .4 **Vivisection**  
See also 614.22 Vivisection laws
- .5 **Oaths**
- .6 **Heroism Bravery Cowardis**
- .7 **Life Dueling Suicide**  
See also customs, 394.8 Dueling
- .8 **Pride Covetousness Envy Anger Sloth Jelousy Hate and other vices**
- .9 **Humility Liberality Gentleness Patience Diligence Charity Modesty, and other virtues**

# 180 Ancient philosophers

See also 921.9, Biography of ancient philosophy.

## 181 Oriental philosophers

- .1 Chinese: Confucius, Mencius
- .2 Egyptian
- .3 Jewish: kabala; Philo, Maimonides
- .4 Indian: Gymnosophists
- .5 Persian Sufism
- .6 Chaldaean
- .7 Sabeism
- .8 Phoenician
- .9 Syrian
- .1 Ionic: Thales, Anaximander, Anaximenes

## 182 Early Greek philosophers

Materialistic. Things are as they seem

- .2 Italic or Pythagorean Half idealistic
- .3 Eleatic: Xenophanes, Parmenides, Zeno, Melissus  
Idealistic. Existence denied. Thought is the only reality
- .4 Heraclitus
- .5 Empedocles
- .6 Atomistic
- .7 Democritus
- .8 Anaxagoras
- .9 Other early Greek

## 183 Sophistic and Socratic philosophers

- .1 Sophistic: Protagoras, Gorgias, Prodicus, Hippias
- .2 Socrates
- .3 Socratic
- .4 Cynic: Antisthenes, Diogenes, Crates, etc.
- .5 Cyrenaic: Aristippus, Hegesias, etc.
- .6 Megaric: Euclid, Eubulides, Diodorus, etc.
- .7 Elian and Eretrian: Phedo, Menedemus, etc.

## 184 Platonic Older Academy

- .1 Plato  
Class his works preferably in 888.4, but discussion of his philosophy here
- .2 Speusippus
- .3 Xenocrates

## 185 Aristotelian Peripatetic Lyceum

- .1 Aristotle  
Class his works preferably in 888.5, but discussion of his philosophy here
- .2 Theophrastus
- .3 Eudemus
- .4 Strato

- 186 Pyrrhonist New Platonist
- .1 Pyrrhonism Skepticism Pyrrho, Timon
  - .2 New Academy: Arcesilaus, Carneades, Plutarch  
See 888.8 Plutarch's works
  - .3 Eclecticism: Cicero See 875.4
  - .4 Alexandrian, Neo-Platonic: Philo, Plotinus, Proclus,  
Porphyry, Iamblichus See 239.4 Apologetics; 273.1 Heresies

187 Epicurean: Epicurus Lucretius See also 871.1

188 Stoic

- .1 Zeno
- .2 Cleanthes
- .3 Chrysippus
- .4 Panaetius
- .5 Posidonius
- .6 Seneca See 878.5; 872.6
- .7 Epictetus
- .8 Marcus Aurelius

189 Early Christian and medieval philosophers

- .1 Gnosticism See 273.1 Basilides, Marcion. See 273.2 Manichaeism
- .2 Patristic: Tertullian, Augustine, Clement, Origen
- .3 Arabian: Avicenna, Averroes
- .4 Scholastic: Scotus, Aquinas, Anselm, Abelard
- .5 Mystic: Reuchlin, Cornelius Agrippa, Paracelsus, Servetus,  
Böhme

190 Modern philosophers

See also 921.1 to 921.8 Biography of philosophy, or lives may be put here with works, with references only under 920 Biography. Philosophic works are put here, not under the School or System to which the author may be thought to belong. See note under 140

191 American philosophers

These numbers may be left blank for future use or used for the well known names among American philosophic writers given below

- .1 Jonathan Edwards 1703-58
- .2 Oliver A. Brownson 1803-76
- .3 Ralph Waldo Emerson 1803-82 See 814.36
- .4 Laurens P. Hickock 1798-1888
- .5 James McCosh 1811-94
- .6 Noah Porter 1811-92
- .7 Francis Bowen 1811-90
- .8 William Torrey Harris 1835-1909
- .9 Other American philosophic writers *Unl. names*

192	British philosophers		
.1	Bacon	1561-1626	See 144 Empiricism
.2	Locke	1632-1704	See 145 Sensationalism
.3	Berkeley	1685-1753	See 141 Idealism
.4	Hume	1711-76	See 824.64 English essays
.5	Reid	1710-96	See 143 Intuitionism
.6	Dugald Stewart	1753-1828	
.7	John Stuart Mill	1806-73	
.8	Spencer	1820-1903	
.9	Other British philosophic writers		

193	German philosophers		
.1	Leibnitz	1646-1716	
.2	Kant	1724-1804	See 142 Critical philosophy
.3	Fichte	1762-1814	See 141 Idealism
.4	Schelling	1775-1854	
.5	Hegel	1770-1831	
.6	Schleiermacher	1768-1834	
.7	Schopenhauer	1788-1860	See 149.6 Pessimism
.8	Lotze	1817-82	
.9	Other German philosophic writers		

194	French philosophers		
.1	Descartes	1596-1650	See 144 Empiricism
.2	Malebranche	1638-1715	
.3	Condillac	1715-80	
.4	Rousseau	1712-78	
.5	Diderot	1713-84	
.6	Lamennais	1782-1854	
.7	Cousin	1792-1867	See 148 Eclecticism
.8	Comte	1798-1857	See 146 Positivism
.9	Other French philosophic writers		

195 Italian philosophers

196 Spanish philosophers

197 Slavic philosophers

198 Scandinavian philosophers

199 Other modern philosophers

The heads of 180-199 are for discussions of the systems of these men and for their philosophic works not clearly belonging elsewhere, not for *all* their works. Mill's Logic is 160 not 192.7, but his *complete works* bound together are 192.7. Plato and Aristotle have individual numbers, 888.4 and .5, where their works are more useful than in 184-5 because of their classic prominence.

# Religion

## 200 Religion General works

201 Philosophy, theories, methods

202 Compendis, outlines, systems

203 Dictionaries, cyclopedias

204 Essays, lectures, disputations, addresses

See also 252 Sermons

205 Periodicals, magazines, reviews

206 Societies: transactions, reports, etc.

General conferences. Societies whose work is largely done by paid officers, most members merely contributing money; e. g. Pan-evangelical alliance, Bible and tract societies. Put history, reports, etc. here, but their publications of course go with subject

207 Education: theologic seminaries, training schools

Divided like 940-99

208 Polygraphy: collected works, extracts, etc.

Many collections go under a more specific hed; e. g. 240

209 History of religion

Including ecclesiastic antiquities, statistics, etc. See also 274-279 for Christian antiquities of special countries

## 210 Natural theology

Concerns evidence in nature exclusiv of revelation, also Christian or skeptic discussion of specific topics (211-214, 216-218). For general defense of Christian theology, see 239 Apologetics, subdivided according to kind of criticism

211 Deism and atheism

Skepticism. Infidelity. Rationalism, etc.

Atheism denies existence of God. Deism accepts existence, but denies revelation and rejects Christianity. Theism believes in a god supernaturally revealed, e. g. Judaism, Mohammedanism, Buddhism, etc. Arguments from nature in support of any of these views go here

See also 231 Christian theism; 239 Apologetics; 273.8 Agnostic heresy; 149.7 Agnosticism

212 Pantheism Theosophy

See 147 Pantheism; 129.5 Origin of soul

213 Creation Evolution

See 113 Cosmology

See 575 Science

From religious viewpoint; attempts to harmonize *Genesis* and geology. See also metaphysics, 113 Cosmology; and natural science, 575 Evolution

214 Providence

See 231.5 Doctrins

Theodicy

See 231.8 for Christian view

- 215 Religion and science See 239.3 Apologetics  
Antagonism or reconciliation between science and Bible religion. Arguments of scientists against scientists. Bridgewater treatises. For creation, see 213
- 216 Evil Depravity See 149.6 Pessimism; 233.2 Sin
- 217 Prayer Prayer gage See 264.1 Prayer; 248 Personal religion  
Tests of efficacy of prayer *Not from christian standpoint*
- 218 Future life Immortality Eternity  
See 237 Future state; 128 The soul *Books from Ingersoll.*
- 219 Analogies Correspondences See also 169 Logic *ten*
- 220 Bible General works *Bible stories, ten*  
For similar works limited to Old or New Testament, or individual books, see specific hed below
- .1 Canon Inspiration Prophecy *growth of B. and its*
- .2 Concordances Analyses
- .3 Dictionaries Cyclopedias
- .4 Original texts and early versions Codices  
Heds for old and new testaments are given, as they are also used for 221 and 225
- .42 Chaldee
- .43 Syriac
- .44 Hebrew
- .45 Samaritan
- .46 Other Semitic: Ethiopic, Arabic, etc.
- .47 Latin, Itala, Vulgate
- .48 Greek, Septuagint Aquila, Symmachus, Theodotion  
Hexapla
- .49 Other early versions: Armenian, Coptic, Gothic, etc.  
220.4 and 220.5 are pure texts. A Hebrew bible with commentary goes in 220.7 with reference from 220.44
- .5 Versions of Bible Polyglots Divide by languages, like 400  
These are translations from the original Hebrew and Greek. Translations from other early texts go with them in 220.4; e. g. an English translation of the Syriac goes in 220.43
- .6 Hermeneutics Exegesis Symbolism Typology
- .7 Commentaries on whole Bible, and annotated editions  
For notes, etc. on portions of the Bible, see the most specific hed in 221-229
- .87 Special topics *art of Bible*  
Divided like general Classification; e. g. natural science of the Bible in 220.85
- .9 Biblical geograpy and history *during Bible times*
- .91 Biblical geograpy, description, etc.  
See 915.69, 913.33 Palestine
- .92 Scriptural biograpy  
See also 922.1; 232.9 Lives of Christ
- .93 Antiquities, archeology  
See also 296 Jewish religion; 933 History of Jews
- .94 Chronology
- .95 History *Bible stories, ten*  
See 933 Jews

221 Old testament: texts, introductions, etc.

Divided like 220; e. g. 221.7. Commentaries on Old Testament

222 Historical books

- .1 Pentateuch
- .11 Genesis
- .12 Exodus
- .13 Leviticus
- .14 Numbers
- .15 Deuteronomy
- .16 Decalog
- .2 Joshua
- .3 Judges and Ruth
- .4 Samuel
- .5 Kings
- .6 Chronicles
- .7 Ezra
- .8 Nehemiah
- .9 Esther

223 Poetic books

- .1 Job
- .2 Psalms
- .3 Authorship and chronology
- .4 Special groups  
Messianic; Greater Hallel; Lesser Hallel; Vesper psalms; Penitential, 6, 32  
38, 51, 102, 130, 143; Hebraic five books, Psalms 1-41; 42-72; 73-89; 90-106;  
107-105
- .5 Liturgic use by Christians  
See 264.038 Anglican psalter; 245 Hymnology
- .6 Commentaries on psalms
- .7 Proverbs
- .8 Ecclesiastes
- .9 Song of Solomon, or Canticles

224 Prophetic books

- .1 Isaiah
- .2 Jeremiah
- .3 Lamentations
- .4 Ezekiel
- .5 Daniel
- .6 Hosea
- .7 Joel
- .8 Amos

- .9 Other minor prophets
- .91 Obadiah
- .92 Jonah
- .93 Micah
- .94 Nahum
- .95 Habakkuk
- .96 Zephaniah
- .97 Haggai
- .98 Zechariah
- .99 Malachi

225 New Testament: texts, introductions, etc.

Divided like 220

226 Gospels and Acts

- .1 Harmonies
- .2 Matthew
- .3 Mark
- .4 Luke
- .5 John
- .6 Acts of the apostles
- .7 Miracles
- .8 Parables
- .9 Lord's prayer

227 Epistles

- .1 Romans
- .2 Corinthians 1
- .3 Corinthians 2
- .4 Galatians
- .5 Ephesians
- .6 Philippians
- .7 Colossians
- 227.8 Other Pauline epistles
  - .81 Thessalonians 1
  - .82 Thessalonians 2
  - .83 Timothy 1
  - .84 Timothy 2
  - .85 Titus
  - .86 Philemon
  - .87 Hebrews
- .9 Catholic epistles
  - .91 James
  - .92 Peter 1
  - .93 Peter 2
  - .94 John 1
  - .95 John 2
  - .96 John 3
  - .97 Jude



- 228 **Apocalypse** *Book of Revelations*
- 229 **Apocrypha**
- .1 Esdras 1, 2
  - .2 Tobit, Judith, Esther
  - .3 Wisdom
  - .4 Ecclesiasticus
  - .5 Baruch, Epistle of Jeremy, Song of the three children
  - .6 Story of Susanna, History of Bel and the dragon, Prayer of Manasses
  - .7 Maccabees 1, 2, 3, 4
  - .8 Pseudo gospels
  - .9 Apostolic epistles and canons **Clementines** See 281.1

## 230 **Doctrinal Dogmatics Theology**

General doctrinal works may be subdivided by churches like 280-289. See also 252.3

### 231 **God Unity Trinity**

- .1 God the Father, Creator
- .2 God the Son, Redeemer
- .3 God the Holy Ghost, Giver of Life, Sanctifier
- .4 Divine attributes: omniscience, omnipotence, omnipotence
- .5 Divine providence See also Natural theology 214
- .6 Divine love and wisdom
- .7 Divine law and miracles
- .8 Theodicy  
Vindication of God's justis in permitting evil. See also Natural theology, 214

### 232 **Christology**

- .1 Incarnation **Messiah**
- .2 Logos, the Word of God
- .3 Atonement
- .4 Sacrifice
- .5 Resurrection
- .6 Second coming See also 289.3 Second adventists
- .7 Judgment
- .8 Divine humanity
- .9 Lives of Christ

### 233 **Man** *Anthropology*

- .1 The fall
- .2 Sin
- .3 Moral and spiritual heredity  
See also Biology, 575.1; Psychology, 136.3; Metaphysics, 129.2
- .4 Accountability
- .5 Natural and spiritual body
- .6 Personality See also Metaphysics, 126
- .7 Freedom See also 234.9; 123; 159
- .8
- .9

234 Salvation Soteriology

- .1 Grace
- .2 Faith
- .3 Redemption
- .4 Regeneration
- .5 Repentance
- .6 Obedience
- .7 Justification
- .8 Sanctification
- .9 Predestination and freewill See also 233.7; 123; 159

235 Angels Devils Satan

236 Eschatology Last things

- .1 Deth
- .2
- .3 Millennium
- .4 Intermediate state Sheol Hades
- .5 Purgatory
- .6 Paradise Limbus patrum
- .7 Limbo Limbus infantum
- .8 Resurrection
- .9 Judgment See also Christology, 232.7

237 Future state See also Natural theology, 218

- .1 Eternity *Christian belief*
- .2 Immortality
- .3 Conditional immortality
- .4 Heven
- .5 Hell Gehenna
- .6 Retribution Future punishment
- .7 Eternal punishment See also 289.1 Universalists

238 Creeds Confessions Covenants Catechisms

Divided more closely if wisht like 280-289; e. g. 238.19 Greek church

- .1 Apostles, Nicene, and Athanasian creeds
- .2 Creed of Pius 4 (Trent) and later Roman
- .3 Anglican 39 articles, A. D. 1551 See also 264.037 Liturgy
- .4 Continental protestant Lutheran Calvinist Dort
- .5 Westminster Saybrook Cong'l Cambridge Savoy
- .6-.9 Of other sects Divided like 286-289

## Apologetics Evidences of Christianity

If prefered, courses of apologetic lectures may be kept together; e. g. 239.01 Bampton; .02 Boyle; .03 Hulsean; .04 Bohlen; .05 Paddock; .08 Miscellaneous. More usefully each book is classed under the most specific head that will contain it. See also natural theology 211-218 and doctrines 231-237 for discussion of separate topics

- .1 **Apostolic age**
- .2 **Against the Jews**
- .3 **Against the heathen**
- .4 **Against the Neo-Platonists** See 273.1 Gnostic heresy
- .5 **Against the English and Scotch deists** See 211 Deism
- .6 **Against the French encyclopedists**
- .7 **Against the rationalists**  
See 211 Natural theology; 273.8 Agnostic heresy; 149.7 Agnosticism
- .8 **Against the scientists** For nonchristian view, see 215
- .9 **Other special denials**

## 240 Devotional Practical

- 241 **Didactic** For Catechisms, see 238
- 242 **Meditative, contemplative** See also 248 Personal religion
- .1 **Thomas à Kempis**
- 243 **Hortatory, evangelistic**
- 244 **Miscellany: religious novels, Sunday school books, allegories, etc.**  
But class Bunyan in 823.42 because of his literary prominence.
- 245 **Hymnology Religious poetry.**  
See also 223.5 Psalms; 264.038 Psalter  
Divided by languages, like 800, and then by churches, like 280, if denomination is clearly marked

## 246 Ecclesiology Symbolism Religious art

246-7 cover religious bearings. For art side see 700

- .1 **Byzantine and Gothic ecclesiology**  
See 723 Medieval architecture; 726 Religious architecture
- .2 **Primitive church and heathen art**
- .3 **Images in churches** Iconoclasts
- .4 **Protestantism and religious art**
- .5 **Emblematic and cryptographic art: catacomb symbols**
- .6 **Liturgical symbolism: altar, colors, lights**  
See also 264 Public worship
- .7 **Evangelistic use of music and art, pictorial and plastic:**  
Della Robbia
- .8 **Eucharistic music: Ambrose, Gregory the Great** Later development  
See also 783 Sacred music; 264.2 Public worship
- .9

- 247 Sacred furniture Vestments Vessels Ornaments, etc.
- .1 Font Baptistry Lectern Pulpit
  - .2 Tabernacle Rood screen Reredos
  - .3 Sculpture and mortuary design  
See 718 Monuments; 726.8 Mortuary buildings; 730 Sculpture
  - .4 Illumination Mosaics Enamels Stained glass  
See also 745 Ornamental design; 748 Stained glass
  - .5 Fresco and religious painting See also 750 Painting
  - .6 Pallium Miter Crozier Ring
  - .7 Vestments and altar cloths
  - .8 Eucharistic vessels See also 265.3 Sacraments
  - .9 Ornaments, etc: crucifix, banners, thurible, incense
- 248 Personal religion Asceticism  
See also 273.2 Ascetic heresy
- 249 Family devotions See 264 Public worship
- 250 **Homiletic Pastoral Parochial**
- 251 Homiletics Preaching See 264.6 Public worship  
Divided like 252, for matter about special kinds of sermons
- 252 Sermons  
The collected sermons on various topics under 252 are divided by churches and sects, like 280. The sermons on specific topics are more useful, like other pamphlets, class with the topics, e. g. a sermon on family devotions is 249, not 252.4; on strikes, is 331.89. The 9 heads below are for collections and cross references, but may be used for separate sermons if the classifier prefers
- .1 Episcopal charges Pastorals
  - .2 Controversial Polemic
  - .3 Doctrinal Dogmatic See also 230 Dogmatics
  - .4 Practical Devotional
  - .5 Academic Educational See also 378.7 Baccalaureates
  - .6 Political Public occasions and duties
  - .7 Consecration Ordination  
See also 265.4 Ordination; 265.9 Consecration; 262.16 Orders
  - .8 Expository
  - .9 Memorial Obituary Biographic Historical  
Memorial of a special church goes with that church in 280. See also 920 Biography
- 253 Pastoral visitations, evangelistic
- 254 Cleric support Celibacy  
See also 176.2 Sexual ethics; 248 Asceticism; 613.89 Hygiene
- 255 Brotherhoods Sisterhoods  
In the parish. For Monastic orders, see 271
- 256 Societies for parish work: guilds, sodalities  
Local societies. Discussion of desirability of such work. For general societies see 206 and 267
- 257 Parochial schools Libraries, etc.  
See also 377.5 Education; 027.8 Parish libraries
- 258 Parish care of sick, fallen, etc.  
See 265.8 Ministry of sick; 176.5 Social evil
- 259 Other ministrations and work

## 260 Church Institutions and work *church*

261 The church Its influence on morals, civilization, etc.

.1

.2

.3 Church vs barbarism

.4 Church and morals

.5 Church and intellectual development See also 377.8 Education

.6 Church and civilization

.7 Church and civil government

See 172.3 State ethics; 322 Church and state

.8 National churches vs organic unity

.9

## 262 Ecclesiastic polity

.1 Ministry

.11 Apostolic succession

.12 Episcopate

.13 Papacy Primacy Papal supremacy; infallibility, 18 July 1870

.14 Priest Presbyter Minister Lay ministry

.15 Deacon Deaconess Evangelist

.16 Orders Ordination See 265.4 Sacraments; 252.7 Sermons

.17 Episcopal

.18 Presbyterian

.19 Congregational

.2 Parish Congregation See 250 for Parochial work

.3 See Diocese Cathedral system

.4 Council Synod Presbytery Congregation Convention

Polity only, here. Proceedings go with churches, 281-9

.5 General or ecumenic council See also 270.2

.6 Canons Decrees

.7 Traditions

.8 Authority Church and ministerial Private judgment

.9 Disciplin Courts Trials For Canon law see 348

## 263 Sabbath Lord's day Sunday

.1 Hebraic sabbath

.2 Modern sabbath Seventh day

.3 Lord's day Christian Sunday

.4 Sunday observance

.5 Work

.6 Amusement

.7 Opening libraries and museums

See also 024.4 Library rules

.8 Sunday laws

.9

## 264 Public worship Divine servis Ritual

See also 246, Ecclesiology; 247 Sacred furniture. General works are divided by churches like 280. Under various churches the servises may be further divided, as e. g.

- .03 Anglican and American P. E. ritual
- .031 Calendar Festivals and fasts See also 529.6 Chronology
- .032 Lectionary and rubrics
- .033 Morning prayer Litany
- .034 Evening prayer Vespers Compline
- .035 Sacraments, ordinances, and servises See also 265 Sacraments
- .036 Collects, epistles and gospels
- .037 Ordinal Articles Creeds See also 238.3 Creeds, doctriins
- .038 Psalter and other See 223.5 Psalms; 245 Hymnology
- .039 History of successiv prayerbooks

### 264.1 Prayer Extempore Liturgic

See also 248-249 Private and family prayer

### .2 Music Singing Instrumental Praise meeting

See also 783 Sacred music; 246.7, 246.8 Ecclesiology

### .3 Scripture readings

### .4 Antiphonal or responsiv readings

### .5 Confessions of faith Creeds See also 238 Creeds

### .6 Sermons Exhortations Instructions

See also 251 and 252 Preaching and sermons

### .7 Prayer and conference meetings

### .8 Class and covenant meetings Love feasts

### .9 Sacramentals See also 265 Sacraments

## 265 Sacraments Ordinances

### .1 Baptism

### .2 Confirmation Church fellowship

### .3 Eucharist Holy communion Sacrifice

### .4 Holy orders Ordination See also 262.16 Ministry; 252.7 Sermons

### .5 Marriage See also 173 Ethics of the family

### .6 Penance Confession Absolution

### .7 Extreme unction Viaticum

### .8 Ministry of sick and ded: faith cure, healing, burial

### .9 Consecration Dedication See 262.16 Ordination; 252.7 Sermons

## 266 Missions Home and foren

Subdivided by churches, like 280. See also 377.6 Missionary schools

Missions in special countries or places, including those of all churches, go under the geograficy divided Religious history, 274-279, with references under 266

## 267 Associations

General societies demanding of members activ personal work. For local societies, see 256. For Bible, tract, and similar general societies see 206

### .1 Religious societies of both men and women

#### .11 U. S. Christian commission

#### .15 Salvation army

- .2 Religious societies of men**  
 For Y. M. C. A. see 267.3; missionary societies, 266; ministerial education societies 207; Bible societies, 206
- .21 17th century or earlier** } May be divided by countries like 940-99  
**.22 18th century** }
- .23 19th century; interdenominational and undenominational**
- .231 In educational institutions**  
 Divided like 940-99. If preferd, cancel .231 and put all together in .234-9.  
 For work of Y. M. C. A. see 267.361
- .232 Nasmith societies**
- .233 Young men's Christian unions; i. e. not "evangelical," etc.**
- .234-.239 Others** Divided like 940-99
- .24 19th century; denominational**
- .241 In educational institutions**  
 Divided like 282-289. If preferd, cancel .241 and put all together in .242-9. For work of Y. M. C. A. see 267.361
- .242-.249 Others** Divided like 282-289
- .3 Young Men's Christian associations**  
 Active membership confined to members of "evangelical" churches  
 To shorten the number, X may be used for 267.3 thruout; i. e. X 19 would mean "Work in small towns"
- .31 Objects, field and extension**
- .311 Need and objects**
- .312 Limits: for and by young men and distinctively religious**
- .313 Relation to the church**
- .314 International work**
- .315 National work**
- .316 State work**
- .317 District work**
- .318 Work in towns able to support a general secretary**
- .319 Work in small towns**
- .32 Buildings** See also library bildings 022
- .321 Location** Provision for growth
- .322 Materials and protection against fire**
- .323 Plans** Number, size and arrangement of rooms
- .324 Reception, social rooms and parlors**
- .325 Library** Reading, lecture, and class rooms See 022
- .326 Administration and special rooms** Boys' rooms
- .327 Physical culture rooms**
- .328 Lighting, heating, and ventilation**
- .329 Fixtures, furniture, and fittings**
- .33 Organization**
- .331 Incorporation** Constitution and bylaws
- .332 Branches and suborganizations** Including women's work for young men
- .333 Managers** Officers serving without pay
- 1 Trustees** (in charge of real estate)
- 2 Directors**
- 3 President**
- 4 Treasurer**
- 5 Recording secretary**
- 6 Executiv or corresponding secretary**
- .334 Standing committees**
- 1 Importance; enlistment and composition**
- 2 Principles and methods of organization**
- 3 Names and duties** See also Department work 267.35

- .335 Membership
  - 1 Membership committee
  - 2 Classes of membership
  - 3 Securing and retaining members
  - 4 Development of activ members
  - 5 Associate membership and its relations
    - For members' meeting see Social work, 267.3544
- .34 Salaried officers: duties, qualifications, training
- .341 General secretary and assistants
  - Including international and state secretaries. See also 267.314-316
  - 1 Offis and work
  - 2 Qualifications
  - 3 Relationship
    - 31 To churches and pastors
    - 32 To officers, directors, and committees
    - 33 To other employees
    - 34 To the members
    - 35 To the religious work
    - 36 To the business community
    - 37 To fellow secretaries
  - 4 Personal hints
    - 41 Considering a call and beginning work
    - 42 Spiritual and intellectual growth and health
    - 43 Offis work, system, and economy
    - 44 Personal appearance and conversation
    - 45 Ladies' company
    - 46 "Secretarialism "
- .342 Librarian and assistants
  - May be divided like 267.341. See also Library administration, 025 and 267.3532
- .343 Physical director and assistants
  - May be divided like 267.341. See also 267.355 and 613.7
- .344 Other salaried officers
- .345 Training; need and methods, demand and supply
- .346 Training schools
- .347 Training by apprenticeship
- .348 Institutes } Methods only; for reports see 267.39
- .349 Conferences }
- .35 Local work by departments
- .351 Business department
  - 1 Finance committee
  - 2 Annual budget
  - 3 Endowments and other sources of income
  - 4 Solicitation, collection and disbursement
  - 5 Financial book-keeping
  - 6 Debt, taxes, etc.
  - 7 Records and statistics
  - 8 Advertising, including anniversaries and parlor conferences
  - 9 Printed matter Including bulletin, prospectus, etc.
- .352 Religious department
  - 1 Committees
  - 2 Individual Bible study Methods and helps
  - 3 Bible classes
  - 4 Training classes Personal work
  - 5 Bible readings Song servises
  - 6 Evangelistic meetings
  - 7 Social religious meetings
  - 8 Other meetings in the rooms
  - 9 Work outside the rooms
    - In public institutions, sermons to young men, distribution of religious papers, invitations, etc.



- .353 Educational department,
  - 1 Committees
  - 2 Library See 267.342 and 025
  - 3 Reading room
  - 4 Classes
  - 5 Lectures and talks
  - 6 Literary societies
- .354 Social department
  - 1 Committees
  - 2 Reception committee
  - 3 Social rooms and fittings See 267.32
  - 4 Receptions Socials Entertainments
  - 5 Music
  - 6 Amusements Including games of skill See also 794
- .355 Physical department
  - 1 Committees
  - 2 Aim and benefit of department  
For Physical director see 267.343; Equipment, methods, etc., 613.7
- .356 Information, relief, etc. department
  - 1 Boarding house bureaus
  - 2 Employment bureau
  - 3 Savings bureau
  - 4 Visitation of sick
  - 5 Destitute young men
- .357 Boys department
  - 1 Committees
  - 2 Religious work
  - 3 Educational work
  - 4 Social work
  - 5 Physical work
  - 6 Information, relief, etc.
- .358
- .359 Janitor's department: bilding; care, cleaning, safety Police
- .36 **Work among special classes**  
Y. M. C. A. only; other religious societies of men go in 267.2
- .361 College and school
  - 1 History and methods in general
  - 2 International reports Including Northfield meetings
  - 3 International periodicals  
For state and sectional reports and periodicals see 267.39
- .362 Railroad employees
  - 1 History and methods in general
  - 2 International reports
- .363 Commercial travelers
- .364 Foren-speaking  
Divided like 400; e. g. 3 German, 4 French, 5 Italian, etc.
- .365 Colord men
- .366 American Indians
- .367 Soldiers U. S. Christian commission, 267.11
- .368 Sailors
- .369 Other Policemen, firemen, fishermen, lumbermen, mutes, etc.
- .37
- .38

- .39 **History, reports, periodicals, etc.** For methods see 267.314-319
- .39I International history
- .392 International reports, etc.
  - I Reports
  - 2 Other pamphlets
 } Reports, etc., of international college and railroad work go in 267.361-362
- .393 International periodicals International college periodicals, 267.3613
- .394-399 Special countries Divided like 940-999
- 267.4 Religious societies of women**
- .41
- .42
- .43 19th century; interdenominational and undenominational
- .43I
- .432 **Women's Christian associations**
  - Divided like 267.3. To shorten the number, W may be used for 267.432 thruout; e. g. W 1 would mean ' Objects, field and extension '
- .433 **King's daughters**
- .44 19th century; denominational Divided like 282-289
- .5 Young Women's Christian Associations**
  - Activ membership confined to members of 'evangelical' churches
  - Divided like 267.3-399
  - To shorten the number Y may be used for 267.5; e. g. Y3, Organization, insted of 267.53
- .6 Religious societies of young people** For Sunday schools see 268
- .6I Interdenominational and undenominational
- .6II
- .6I2
- .6I3 **Young people's society of Christian endeavor**
  - I Reports, etc.
  - 2 Periodicals
- .62 **Denominational** Divided like 282-289
- .7 **Religious societies of boys** Not Y. M. C. A. Divided like 267.6
- .8 **Religious societies of girls** Not Y. W. C. A. Divided like 267.6
- .9
- 268 Sunday schools**
- 269 Revivals Retreats Parish missions**

# 270 Religious history

## Ancient period: to conversion of Germans

See 281.1-281.4, for collected works of early theologic writers, etc. 270 is for religious history of these *periods*

For religious history of special countries, either general or for special periods, see country divisions, 274-279; e. g. English reformation, 274.2

- .1** Apostolic Nativity to Constantine
- .2** Period of ecumenic councils Centralization A. D. 325-787  
The Greek church acknowledges these 7 councils as really Ecumenic. Anglicans generally recognize only the first 6. See also 262.5 Polity
- .21** First of Nice A. D. 325
- .22** First of Constantinople 381
- .23** First of Ephesus 431
- .24** Chalcedon 451
- .25** Second of Constantinople 533
- .26** Third of Constantinople 681
- .27** Second of Nice 787

## Medieval period: Charlemagne to Luther

- 270.3** Charlemagne Papacy vs empire A. D. 787-1054  
Church planted among the Germans. Feudalism. Great schism, east vs west, 1054
- .4** Hildebrand Roman supremacy A. D. 1054-1200  
Temporal power. Scholasticism. First 3 crusades
- .5** Later medieval Renaissance A. D. 1200-1517  
Innocent 3. Papal schism. Avignon. Nominalism vs realism. Greek church under Moslems. Education. Arts. Inventions. Pre-reformation
- Modern period: Reformation to present**  
From A. D. 1517, theology in Europe is in 3 types, viz: Roman, Lutheran, and Reformd or Calvinistic
- .6** Reformation Counter reformation A. D. 1517-1648  
Council of Trent, A. D. 1545-63. Diet of Augsburg. Luther. Melancthon. Calvin. Knox. Religious wars. Jesuit missions in east. See also reformation in England, etc. 274.2
- .7** Peace of Westphalia to French revolution A. D. 1648-1789  
Union of church and state. Deism. Materialism
- .8** Modern Rationalistic A. D. 1789-  
Holy alliance. Greek church in Russia. Atheism. Pantheism. Protestant missions

Including monasticism and monastic foundations

See also 235 Brotherhoods; 377.3 Monastic schools

- |      |                                  |                               |      |               |
|------|----------------------------------|-------------------------------|------|---------------|
| .1   | <b>Benedictines</b>              | founded A. D.                 | 529  |               |
| .2   | <b>Dominicans</b>                | " "                           | 1170 |               |
| .3   | <b>Franciscans</b>               | " "                           | 1182 |               |
| .4   | <b>Augustinians</b>              | " "                           | 1256 |               |
| .5   | <b>Jesuits</b>                   | " "                           | 1540 |               |
| .6   | <b>Passionists, 1720</b>         | <b>Redemptorists, 1732</b>    |      |               |
| .7   | <b>Lesser Roman orders</b>       |                               |      |               |
| .71  | Carthusians                      | founded A. D.                 | 1086 |               |
| .72  | Cistercians                      | " "                           | 1098 |               |
| .73  | Carmelites                       | 12th century                  |      |               |
| .74  | Trappists, 1150                  | Capuchins, 1525               |      |               |
| .75  | Sulpicians, 1642                 |                               |      |               |
| .76  | Oblates                          |                               |      |               |
| .77  | Lazarists, 1624                  |                               |      |               |
| .78  | Christian Brothers, 18th century | De la Salle                   |      |               |
| .79  | Other lesser Roman orders        |                               |      |               |
| .8   | <b>Anglican brotherhoods</b>     |                               |      |               |
| .9   | <b>Sisterhoods</b>               |                               |      |               |
| .91  | Sisters of Charity               | Vincent de Paul founded A. D. | 1629 |               |
| .92  | Sisters of Mercy                 | Augustinian                   | " "  | 1831          |
| .93  | Ladies of the Sacred Heart       | Jesuit                        | " "  | 1800          |
| .94  | Sœurs de bon Secours             | Nurses                        |      |               |
| .95  | Little Sisters of the Poor       |                               |      |               |
| .96  | Contemplativ                     | Cloisterd nuns                |      |               |
| .97  | Other Roman sisterhoods          |                               |      |               |
| .971 | Carmelites                       |                               |      |               |
| .972 | Second of St Dominic             |                               |      |               |
| .973 | Franciscans                      |                               |      |               |
| .974 | Ursulines                        | A. D.                         | 1537 |               |
| .975 | Of the Visitation                | "                             | 1610 |               |
| .976 | Of St Joseph                     | "                             | 1650 |               |
| .977 | Of the Presentation              | "                             | 1777 |               |
| .98  | Anglican sisterhoods             |                               |      |               |
| .99  | Other protestant orders          | Deaconesses                   |      | (Kaiserwerth) |

## 272 Persecutions

See also special sects, 280; and history of special countries, 940-999

- .1 **Apostolic church by imperial Rome** 1st-4th century
- .2 **Heretics by Inquisition or Holy Office** Since 1470
- .3 **Waldenses and Albigenses** 11th-12th century  
By Roman church. See also 283.4, Protestant sects
- .4 **Huguenots** French protestants  
By Roman church. St Bartholomew, 1572. Edict of Nantes, 1598; revocation, 1685  
See also 284.5 Protestant sects
- .5 **Molinists and Quietists**  
By Roman catholics. Close of 16th century to destruction of Port Royal, A. D. 1709. See also 273.7 Heresies
- .6 **Marian Anglican reformers by Mary** A. D. 1553-58
- .7 **Elizabethan** Later 16th century  
Persecution of Roman church by Anglicans
- .8 **Quakers Baptists Witches** Later 17th century  
Persecutions by puritans. See also 133.4 Witchcraft
- .9 **Other persecutions**

## 273 Heresies

For the history of special doctrines see 230-239, Doctrinal theology

- .1 **Gnostic** First 3 centuries  
Reaction of pantheism and heathen philosophy on Christianity. See also 189.1 Gnostic philosophy; 186.4 Neo-Platonism; 239.4 Apologetics
- .2 **Manichæism** Parsee dualism 3d century  
Opposition of good and evil. Mystic. Ascetic. See also 149.3 Mysticism; 248 Asceticism; 289.8 Shakers, Mystics
- .3 **Sabellian**  
That the Trinity is not of persons, but of successive manifestations. About 250 A. D. Held by Schleiermacher, Bushnell, Swedenborg
- .4 **Arian** Denying divinity of Christ 4th century
- .5 **Pelagian** 5th century  
Denying original sin and supernatural grace
- .6 **Antinomian** 16th century  
Denying force of law, under Gospel dispensation
- .7 **Molinist and Jansenist Pietists** A. D. 1580-1700  
Port Royal. Augustine's doctrine of grace vs the Roman doctrine of good works
- .8 **Agnostic**  
Denying possibility of revelation. Holding that theology and the supernatural lie without the domain of human knowledge. See also 149.7 Philosophy; 211 Atheism; 239 Apologetics
- .9 **Minor heresies**

## 274-279 General religious history by countries

274-279 is divided geographically like 940-999

## 280 Christian churches and sects

281-289.8 may be subdivided where needed like 940-999

### 281 Primitiv and Oriental churches

See also 270.1-270.3, Early religious history

#### .1 Apostolic church, to time of great schism, A. D. 1054

Works of apostolic and Christian fathers here; use 270 for religious history of these periods. See also 229.9 Apocryphal books

#### .2 Primitiv apostolic, to end of first century

#### .3 Ante-Nicene, A. D. 100-325 See also 270.1

#### .4 Post-Nicene, A. D. 325-1054 See also 270.2-3

#### .5 Oriental churches

#### .6 Armenian

#### .7 Coptic

#### .8 Nestorian

#### .9 Eastern or Greco-Russian or Holy orthodox church

The great schism, mutual excommunication, A. D. 1054, separates the Catholic church into Eastern and Western churches, which from this time have separate histories

### 282 Western or Roman catholic church

Divided geograficly like 940-999

### 283 Anglican and American P. E. church

Divided geograficly, when needed, like 940-999; e. g. the Anglican church in Australia is 283.94; in India, 283.54

### 284 Continental protestant sects Protestantism

#### .1 Lutheran Reformd See also 285.7, Reformd church in America

#### .2 Calvinist Zwinglian See 285, and 286.1

#### .3 Hussites Anabaptists Leyden See 286.1

#### .4 Albigenes Waldenses Vaudois See 272.3

#### .5 Huguenots See 272.4

#### .6 Moravian

#### .7 Scandinavian Swedish

#### .8 Old catholic

Here are classt those denying papal infallibility, or for other cause cut off from Rome, tho catholic in other respects

#### .9 Other

### 285 Presbyterian Reformd Congregational

#### .1 Presbyterian church in America

#### .2 Presbyterian church in Great Britain

#### .3 Cumberland presbyterian

#### .4 United presbyterian

#### .5 Reformd presbyterian

#### .6 Minor presbyterian sects

#### .7 Reformd (Dutch) church in America e. g. 285.7747L, in N. Y. city

#### .8 Congregational

#### .9 Puritanism

286 Baptist  
.1 Calvinistic .2 Free will .3 Seventh day

287 Methodist  
.1 Wesleyan methodist  
.2 Calvinistic methodist  
.3 Welsh Calvinistic methodist  
.4 Primitiv methodist  
.5 Primitiv Wesleyan  
.6 Methodist episcopal  
.7 Protestant methodist  
.8 African methodist  
.9 Minor methodist sects

288 Unitarian See also 273.4

289 Minor Christian sects  
.1 Universalist  
.2 Campbellite or Christian Disciples  
.3 Adventist See also 232.6 Second coming of Christ  
.4 New church or Swedenborgian  
.5 Catholic apostolic  
.6 Quaker Friends Hicksites  
.7 Mennonite  
.8 Shaker Mystic For Mystic heresy see 273.2  
.9 Other minor Christian sects

## 290 Ethnic Nonchristian

291 Comparativ and general mythology

292 Greek and Roman mythology

293 Teutonic and Northern mythology

294 Brahmanism Buddhism

For other Indic religions, see 299.11. See also 891.2 Sanskrit literature; 177.5 Caste

295 Parseeism Zend Avesta

For other Iranic religions, see 299.15. See also 891.52 Zend literature

296 Judaism For other Semitic religions, see 299.2

297 Mohammedanism

298 Mormonism See also 173.2 Polygamy

299 Minor nonchristian religions

Subdivided ethnically like 491-499; e. g. Egyptian religion, 299.31; Afghani religion, 299.158

# Sociology

## 300 Sociology in general

301-309 all have Sociology in general as their subject, but it is treated in these various forms. A periodical on Education is 370.5, not 305, which is only for periodicals on Sociology in general. In Sociology, most works in these forms are limited to one division; e. g. to Political economy, Education, Law, etc. All these have the same subdivision of General works; i. e. essays on the various divisions are 310.4, 320.4, 330.4, and so on to essays on Manners and Customs in general, 390.4. A naught in any class number shows the subject to be general, not specific

### 301 Philosophy, theories

See also 901 Philosophy of history

### 302 Compends, outlines

### 303 Dictionaries, cyclopedias, etc.

### 304 Essays, lectures, addresses

### 305 Periodicals, magazines, reviews

### 306 Societies: transactions, reports

### 307 Education: teaching, study, etc. See also 370

### 308 Polygraphy: collected works, extracts, etc.

Put here collected works of statesmen; e. g. works of Adams, Jefferson, etc.

### 309 History of social science

#### .1 Social surveys

Divided like 940-999 Better class in general libraries in 914-919

## 310 Statistics *general*

### 311 Theory, methods Science of statistics

### 312 Population (progress of) Vital statistics: births, deaths, mortality, longevity *annual reports*

See also 614.1 Registration and vital statistics

Statistics are divided geographically like 930-999; e. g. Population of Maine 312.741

### 313 Special topics

### 314-319 General statistics *almost all countries* Divided geographically like 940-999

The statistics of any special matter are put with the subject, e. g. of Domestic animals in 630, of Shorthand in 653, of French novels in 843, of Theaters in 792, etc. Statistics too general to be included in any topic are divided by countries. Statistics of New York city would be 317.471, but the statistics of Medicin in New York would be put with 610, Medicin; i. e. the topic outranks the locality



# 320 Political science

- 320.1 Theory**
- .11 Origin of the state
  - .12 Nation and territory
  - .121 Ethnographic
    - People of same race comprise the nation
  - .124 Geographic
    - Unity of territory
  - .126 Expansion Acquisition of territory
    - 1 By discovery
    - 3 " occupation and possession
    - 5 " cession Annexation
    - 7 " purchase or exchange
    - 9 " conquest or revolution
  - .127 Alienation of territory
  - .128 Frontiers Boundaries
    - 1 Natural boundaries
      - 2 Mountains
      - 4 Rivers
      - 6 Lakes
      - 8 Coast
    - 9 Artificial boundaries
  - .15 Nature, entity, concept of the state
  - .151 Juridic theory
  - .152 Political theory
  - .153 Social and evolutionary theories
  - .154 The state as a moral organism
  - .157 Sovereignty
    - See also 341 International law
  - .158 Allegiance Loyalty, etc. Patriotism
    - See also state ethics 172.1 Duties of citizens
  - .159 National growth and decay
  - .18 Symbolism, emblems: arms, flag, seal, etc.
    - Better class in 929.8 and 929.9

# 321 Form of state

- .01 **Simple state** Sovereign state
- .02 **Mixed state**
- .021 Federal state Bundestaat Federation
- .022 Confederation of states Staatenbund
  - Union of sovereign states Alliance
- .023 Suzerain states
- .025 Semisovereign, dependent and vassal states
- .026 Mediatized state
- .027 Protected state
  - Protectorates, spheres of influence
- .028 Vassal states
- .03 **Empire, imperialism**
- .04 **The world state**
- .041 Internationalism
- .07 **Ideal state** Utopias
  - See also 335 Communism and socialism
- .09 **Change of form of state**
- .092 Revolution
- .094 Coups d' état

- 321.1 Family Patriarchal age
- .2 Tribes Clans Marks Village communities
- .3 Feudalism
- .4 Democracy Pure; e. g. Athens, town meeting
- .5 Aristocracy e. g. Italian republic; medieval German cities
- .6 Absolute monarchy
- .7 Constitutional monarchy
- .8 Republic Modern democracy, delegated powers

322 Church and state See also 172.3, State ethics; 261.7, The church

323 Internal relations with groups and individuals

- .1 Movement and questions of nationalities, races and languages
  - Divided by country like 930-999; e. g. struggle of nationalities in Austria 323.1436 For emigrant nationalities in a country see 325
- .2 Political struggles and troubles
  - Revolutions, revolts; riots, uprisings. See also 321.09
- .3 The state and social groups
  - Classes, orders, estates
  - .31 Nobility, aristocracy; welthy class
  - .32 Middle class, bourgeoisie
  - .33 Proletariat, laboring classes, pesantry
    - See also political economy 331.8 Laboring classes
  - .34 Serfs Villenage
    - See 326.3 Serfs and serfdom
- .4 The state and the individual
  - Natural rights, individual rights, individualism
  - .41 Equality of individuals, races, etc.
  - .42 Equality before the law; justis, etc.
  - .43 Life
  - .44 Liberty
    - .441 Freedom of action
    - .442 " " conscience
    - .443 " " speech
    - .444 Academic freedom
      - See 378.121 Freedom of teaching
    - .445 Freedom of the press
      - See also journalism 070.13; administration 351.751
    - .446 Freedom of drama
      - " " art
  - .45 Family
  - .46 Property
  - .47 Right of assembly, association
  - .48 Right of petition
  - .49 Limitation and suspension of individual rights and guaranties
    - .491 Martial law
    - .492 State of siege

## 323.6

**Citizenship**

- .61 Laws Divided by country like 930-999
- .62 Naturalization
- .63 Alien races and citizenship
- .64 Loss and restoration of citizenship
- .65 Duties and obligations of citizens
  - Scholar as citizen
- .67 Rights of aliens
- .68 Eligibility to office

## 324

**Suffrage**

- .1 **Qualifications, conditions and bases**
- .11 Age
  - For sex see 324.3 Woman suffrage
- .13 Property
  - Household suffrage
- .14 Education Competency Capacity
- .15 Nationality Race Religion
- .16 Residence, domicile
  - Length of residence
- .162 Voting by soldiers
- .164 " " students
- .17 Exclusion from and suspension of suffrage
- .171 Incompetency, incapacity
  - Insane, idiots See also 324.14
- .172 Bankruptcy
- .173 Pauperism
- .174 Conviction of crime; bribery, selling vote
- .177 Government servis
  - Military servis: soldiers and sailors
  - Civil servis, police officers
- .178 Other special classes
  - Students, domestic servants, etc.
- .2 **Forms of suffrage Systems Voting, etc.**
- .21 Electoral systems
- .211 Universal suffrage
- .212 Partial suffrage, limited
- .213 Plural vote
- .214 Class vote, class system
- .215 Compulsory voting
- .22 Constituencies and representation of interests
- .221 Single member constituency
  - Scrutin d'arrondissement
- .222 Multimember constituency
  - Scrutin de liste, block vote, general ticket
- .223 Minority representation
  - Single vote, limited vote, cumulativ vote, proxy system
- .224 Proportional representation
  - Preferential, alternativ, contingent, transferable vote: Quota, simple Droop, d'Hondt, substitute, or Gove method. Graduated system, li s system. For second ballot see 324.248
- .227 Economic and social groups

324.23	Selection of candidates
	Declaration and presentation of candidacy
.231	Nomination of candidate
.233	Party organization      Conferences
.235	Caucus primary
.237	Direct      "
.239	Platform
.24	Voting procedure
.241	Electoral lists: formation, revision
.242	<b>Registration system</b>
	Poll lists and tally sheets
.243	<b>Jurisdiction Examination of credentials</b>
	Appeal, petition
.244	Open voting
.245	Secret ballot
.246	Voting place
.247	Absent voting      Voting by mail
	Traveling salesmen, railway employees, mail clerks, etc.
.248	Second ballot
.249	Indirect voting      Electoral college
.25	Ballot
.251	<b>Unofficial</b>
.252	<b>Official</b>
.253	<b>Party ballots</b>
.254	<b>Blanket ballots</b>
.255	Party colums
.256	Offis groups      Australian ballot
.257	
.258	<b>Voting machines</b>
.26	Results and announcements
	Inspectors of election, meeting, etc.
.261	Count of ballot
.262	Majority elects      Absolute majority
.263	Plurality      "      Relativ majority
.268	Announcement of vote
.27	Corruption      Electoral fraud
.271	Bribery and undue influence: intimidation, selling votes
.272	Fraud in voting: personation, repeating, illegal voting, colonizing
.273	Election contributions and expenditures
	Limitations on expenditures; publicity.      Restriction on contributions; political assessments
.274	
.275	Fraud in counting
	Miscount of ballots; certification of false returns
.276	
.277	Election contests
.28	Suffrage reform

## 325 Colonies and immigration

- .1 Immigrants and naturalization
- .2 Emigrants Divided by countries like 930-999
- .3 Colonization Divided by country like 940-999
- .4-9 In special countries Divided like 940-999, by country in which planted

## 326 Slavery See also 973.7, Civil war; 371.94, Education of freedmen

- .1 Slave trade
- .2 Coolies and contract slaves
- .3 Serfs and serfdom
- .4 Antislavery documents
- .5 " periodicals
- .6 " societies
- .7 Proslavery
- .8 Emancipation and freedom
- .9 History of slavery
  - Divided geographically like 930-999
  - .92 Biography of slaves

## 327 Foren relations Divided geographically like 930-999

## 328 Legislation, lawmaking

- Legislative bodies and annals
- .1 Parliamentary law *Roberts rules of order, non-parliamentary clubs.*
- .2 Legislation
  - .21 Interpretation of law
  - .22 Uniform laws
  - .23 Codification
  - .24 Policy Tendencies
  - .24I Overlegislation
  - .243 Special legislation
    - For private and local bills see 328.378
  - .25 Legislative powers
    - .25I Juridic "
    - .252 Executiv "
    - .253 Implied "
    - .256 Restrictions and checks on legislation
      - See also 328.349
  - .26 Direct legislation
    - .26I Initiativ
      - Voters by petition originate legislation
    - .264 Referendum
  - .27-.29 Subjects of legislative action
    - Divided like 351.7-351.9

## Summary

- 328.3 Legislatures
  - .31 Upper house
  - .32 Lower "
    - .33 Membership Election
    - .34 Prerogatives and powers
    - .35 Sessions
    - .36 Internal organization and disciplin
    - .37 Legislativ procedure
    - .39 Form of legislature
- .31 Upper house
- .32 Lower "
  - .33 Membership Election
- .33I Conditions of membership, eligibility
  - Age, residence, property Membership without voting power
- .332 **Exofficio members**
  - 1 Cabinet and government offisers
  - 2 Expresidents
  - 3 Other exoffisers
  - 4 Clergy, bishops
- .333 Compensation
  - Annual salaries, per diem payment. Milage, traveling expenses. Special sessions. See also 328.347 Privileges
- .334 Representation
  - 1 of states
  - 2 territories
  - 3 colonies and dependencies
  - 4 classes
    - Universities, landowners, Irish and Scotch peers
  - 5 of election districts Apportionment
    - Equalization of representation; unfair apportionment; 'rotten boros'; reapportionment
  - 6 **Gerrymandering**
  - 9 **Number of members**
- .335 Methods of appointment Election
  - 1 **Appointment by government or crown**
    - For life or for a term
  - 2 **Hereditary right**
  - 3
  - 4
  - 5 **Election by direct vote: plurality or majority**
  - 6 **Length of term**
    - Entire or partial renewal of membership; holdover member
  - 7 **Vacancies, resignations**
    - Method of filling vacancies; special elections
  - 8 **Contested elections**
- .338 Official membership lists, directories
- .339 Unofficial lists or directories

- 328.34 Prerogatives and powers      Restrictions
- .341      Power over revenue and appropriation
- .342      Power to judge of elections
- .343      "      over members  
             Power to investigate or punish members
- .344      Power of expulsion
- .345      "      over government officers  
             Power of investigation for impeachment, see 351.96-.99  
             "      to imprison citizens
- .346      Treaty-making power
- .347      Privileges  
             Franking privilege, postage and stationery; railroad passes; free distribution  
             of books
- .348      Immunities  
             From arrest
- .349      Restriction  
             Offsholding      Instructions by electors  
             Direct mandate      See also 328.26 Direct legislation
- .35      Sessions
- .351      Method of summoning  
             Parliamentary writ
- .352      Date of session  
             Fixed or movable
- .353      Frequency of sessions  
             Annual, biennial, quadrennial
- .354      Length of session      Life of legislature
- .355      Recess
- .356      Adjournment      Prorogation      Dissolution
- .357      Executive session: procedure
- .358      Special session      Extra session
- .36      Internal organization and discipline  
             Verification of powers, credentials
- .361      Oath of office
- .362      Officers: appointment, election
- 1      Presiding officer, speaker
- 2      President pro tempore
- 3      Secretaries, clerks  
             Bill clerk      Enrolling, engrossing clerks
- 4      Sergeant at arms
- 5      Pages, messengers, door keepers
- 6      Payment of employees: gratuities, fees, extra pay  
             Unnecessary attendants
- 7      Committees  
             Standing, special, joint
- 8      Special commissions  
             For investigation, not administrative commissions
- .363      Records
- .364      Supplies: daily papers, postage stamps  
             Telegram and telephone bills
- .365
- .366      Discipline: suspension, investigation
- .367      Bribery      Illegal practices  
             Graft bills, blackmail
- .368      Lobbying  
             Including that by heads of departments and institutions

- 328.37      **Legislative procedure**
- .371      **Rules, manuals**  
            See 8 under 328.4-.9 divided by country
- .372      **Petition, addresses**  
            Parliamentary inquiries, commissions  
            Recommendations from executive
- .373      **Bills**  
            Technic: bill drafting, introduction  
            Printing, enrolling, engrossing
- .374      **Action by legislature before passage**
- I**      **Readings: 1st, 2d**
- 2**      **Reference to committees**  
            Committee work or procedure: investigation, hearings, conferences
- 3**      **3d reading**
- 4**      **Contest over passage**
- 5**      Party caucuses, logrolling
- .375      **Final passage**  
            Rules committee, 'lifting' committee, 'steering' committee  
            Vote: viva voce, by roll call; by ballot; obligation of voting in person;  
            pairing  
            Required majority. Veto, see 353.03  
            Passing over veto Bills left in hands of executive: 30 day bills, pocket veto  
            Bills which become law without executive action
- .376      **Special bills**  
            Financial, omnibus riders
- .377      **Joint resolutions**
- .378      **Local and private legislation**
- .379      **Procedure in special cases**
- I**      **Impeachment**
- .39      **Form of legislature**
- .391      **One chamber**
- .392      **Two chambers**  
            See also 328.1 Upper chamber; 328.2 Lower chamber
- .393      **Other forms**
- .394      **Reform**
- .395      **Abolition**

## 329 Political parties Party conventions

- 329.01 U. S. presidential campaign documents of all parties, arranged by campaigns
- .1      **Federal**
- .2      **Anti-Federal**
- .3      **Democratic**
- .4      **Whig**
- .5      **American      Know-nothing**
- .6      **Republican**
- .7
- .8      **Minor parties**  
            .81 Prohibition, see also 178.5 Ethics; .82 Greenback, see also 332.5, Paper money;  
            .83 Woman suffrage, see also 324.3 Suffrage; .84 People's; .85 Labor, see also  
            331.8 Laboring classes
- .9      **Parties in other countries**      Divided geographically like 940-999



# 330 Economics Political economy

*philosophy 7*

- .1 Theory
- .11 General conception Nature and character
  - Definition Limits and extent
- .12 Classification Divisions
- .13 Importance Utility
- .14 Language, terminology, symbols, abbreviations
- .15 Scientific systems
- .151 Mercantil system
- .152 Physiocrats
- .153 Laissez faire
- .154 Historic school
- .19 Relations to other classes
  - Divided like the Classification
  - to ethics
  - .1917 " politics
  - .1932 " literature
  - .198 " literature
- .9 History
- .90 By periods
- .901 Primitiv -476 A. D.
- .902 Medieval 476-1500 A. D.
- .903 Modern 1501-1900 A. D.
- .904 20th century
- .92 Biografy
  - Preferably clast in 923.3
- .93-.99 History divided by country like 930-999

# 331 Labor and laborers. Employers Capital

*general*

- .01 Theory
- .011 Freedom of labor
- .012
- .013 Importance, utility, dignity of labor
- .015 Psychology of labor
  - See 150 Psychology
- .05 Periodicals
- .06 Societies, bureaus, etc.
- .061 Government departments, bureaus
- .062
- .07 Education Exhibitions
  - See also 371.42, 607, and education in special subjects
- .08 Collected works
- .09 History
- .1 Relations of capital to labor
- .2 Remuneration for work
  - Wages, hire, pay, salary, fees
  - .21 General
  - .211 Statistical theory
  - .212 Wage fund
  - .213 Relation of wages to production
  - .214 " " " " cost of living Living wage
  - .215 Minimum wage
  - .22 Wage scales: scale contracts, sliding scale
  - .225 Extra pay
    - Extra wages, efficiency bonus, subsidies; bounties; progressiv wage.

- 331.23 Bases of wages and methods of payment
- .231 By work done  
Job, task, piece. For farming out, sweting system, see 331.236
- .232 By time: hour, day, week, month, year
- .235 Methods of payment  
Truck system, store orders, shares, payment in kind
- .236 Intervention of middleman  
Subcontract, sweting system, commissions
- .24 Profitsharing
- .25 Pensions Insurance  
Old age, sickness, accident
- .26 State and wages
- .261 Legislation Law
- .262 Wages for state labor
- .27 Professional remuneration
- .28 Wages divided by trade
- .29 " " " country
- .3 Labor of children See also 179.2 Cruelty to children
- .4 Labor of women See also 396.5 Woman
- .5 Work at reduced wages
- .51 Prisons Convict labor  
See also 365 Prisons
- .52
- .53 Convents Ouvroirs (workshops)  
Ouvroirs are charity workshops paying beneficiaries nominal wages and marketing products at prices so small as to lower wages of selfsupporting workers
- .54 Contract labor
- .55 Apprentis labor  
See also 331.86 Training, apprenticeship
- .56 Peonage
- .57 Compulsory labor Corvée
- .58 Slave labor  
See also 326 Slavery
- .6 Pauper labor Cheap foren labor Chinese  
See also 339 Pauperism; 362.5 Asylums
- .7 Skild and unskild labor
- .8 Laboring classes
- .81 Duration of work Rest
- .811 Length of day  
8-hour day, 10-hour day, etc. Shifts of work
- .812 Night work
- .813 Sunday work
- .814 Overtime Supplementary hours
- .815
- .816 Vacation Leave of absence
- .817 Holidays  
Weekly rest, Sundays, labor festivals, May 1, festivals of patron saints
- .818 In special trades
- .819 " " counties

- 331.82 Places of labor    Dangers  
     See also 613.6 Hygiene; 622.8 Mining; 614.8 Protection of life
- .83 Food    Clothes    Shelter    See also 640 Domestic economy
- .84 Morals and habits: thrift, temperance, amusements,  
 temptations  
     See also 170 Ethics; 790 Amusements; 263.6 Sunday
- .85 Helps: lectures, libraries, reading rooms, etc.  
     See also 374.5 Popular lectures; 020 Libraries; 263.7 Sunday
- .86 Training    Apprentisship
- .87 Organization of labor
- .88 Trade unions and other labor societies  
     See also 338.6 Gilds
- .89 Strikes  
     Combinations of workmen.    Retaliation by employers
- .891 **Attacks on freedom of work**  
     Picketing; methods of intimidation; scabs
- .892 **Sympathetic strikes**
- .893 **Boycotting**
- .894 **Blacklisting**    **Laying under interdict**
- .895 **Lockouts**

## 332 Banks Money Credit Interest

- .1 **Banks and banking**  
     See also 334.2 Cooperativ banks
- .11 National
- .12 State
- .13 Private
- .14 Trust companies
- .15 Foren
- .2 **Savings banks**
- .3 **Loan institutes**
- .31 Credit institutes
- .32 Bilding associations    See 334.1 Cooperation
- .33 Monts de piété    Governmental
- .34 Pawn shops    Private
- .4 **Coins and coinage**    **Mints**
- .41 Coinage metals: production and value; gold, silver,  
 nickel, copper
- .42 Single and double standard
- .43 International standards
- .44 Monetary congresses
- .45 Comparativ value of moneys
- .46 Mints
- .47 Coinage laws
- .48
- .49 History of mints and coinage    Divided geograficly like 940-999
- .5 **Paper money**    **Public and private notes**    See 329.82
- .6 **Stocks and stock exchanges**    **Bonds**
- .7 **Credit**    **Credit system**
- .8 **Interest and usury**    See also 336.31 Public securities
- .9 **Counterfiting**    **Forging**    See 343 Criminal law

### 333 Land: ownership, rights, and rent

See 338 Production; and 630 Agriculture

- .1 State ownership
- .2 Community ownership
- .3 Private ownership
- .4 Absentee owners      Alien owners
- .5 Rent of land for cultivation
- .6      "      "      "      blding
- .7 Forests
- .8 Mines
- .9 Fisheries

### 334 Cooperation

- .1 Blding societies: loans, organization      See also 332.32
- .2 Cooperativ banks      See also 332 Banks
- .3      "      insurance societies      See also 368 Insurance
- .4      "      housekeeping      See also 647.93 Domestic economy
- .5      "      consumptiv associations      Stores
- .6      "      productiv associations      Factories
- .7 Friendly societies
- .8 Burial societies

### 335 Socialism and communism

See also 334 Cooperation

.01 Theory of property

- .1 English socialism
- .2 Saint Simonism
- .3 Fourierism
- .4 Communism
- .5 German socialism      Social democracy
- .6 State socialism      Socialism of the chair  
    Professorial socialism
- .7 Christian socialism
- .8
- .9 Socialist communities  
    Divided by countries like 930-999

### 336 Finance

- .1 State domain and properties
- .11 Management and income from rents
- .12 Sale
- .13 Land claims
- .14 Land grants to railroads, colleges, etc.  
    See also 379.12 Education
- .19 State monopolies  
    e. g. French state monopoly of tobacco trade.      See also 338.8 Monopolies

- 336.2 Taxation
- .21 Direct
    - .22 Real estate
    - .23 Personal
    - .24 Income
    - .25 Poll
  - .26 Customs: specific or ad valorem See 337 Protection
  - .27 Excise, licenses: liquor, dog, legacies, stamp duties  
See also 178.4
  - .28 Local taxes See also 379.13 School funds
  - .29 Assessment and collection of taxes
  - .3 Loans Public securities
  - .31 Interest-bearing securities See also 332.8 Interest
  - .32 Floating det
  - .33 Sinking fund
  - .34 Public credit
  - .35 Annuities
  - .36 Repudiation
  - .4-9 Finance of special countries Divided geograficly like 940-999

### 337 Protection and free trade

See also 336.26 Customs

- .1 Absolute free trade No tariff
- .2 Free trade: i. e. tariff for revenue only
- .3 Protection
- .4 Subsidies
- .5 Duties on special articles: steel, wool, etc.
- .6 " " raw materials
- .7 " " books and works of art
- .8 Duty free importation for colleges, etc.  
See also 021.861 Libraries
- .9 Reciprocity

### 338 Production Manufacture Prices

*from economic side*

- .1 Agricultural products
- .2 Mining products See also 332.41 Coinage metals
- .3 Water " Fish, ice, etc.
- .4 Manufactured products Machinery in industry
- .5 Prices
- .6 Gilds See also 331.88 Trades unions
- .7 Corporate industries
- .8 Monopolies See also 336.19 State monopolies
- .9 Industrial legislation Divided geograficly like 940-999

### 339 Consumption of welth Pauperism

See also 379.22 Illiteracy; 362.5 Pauper asylums; 331.6 Pauper labor

## General works

Most periodicals belong in Private law, 347.05

- .1 **Philosophy Theories Law of nature**
- .2
- .3 **Antiquities: torture, trial by ordeal, duel, etc.**
- .4 **Trial by jury**
- .5 **Comparativ legislation**
- .6 **Medical jurisprudence** See also 614.23 Expert testimony
- .7 **Education Law school Offis training**
- .8 **Polygrafy Collections**
- .9 **Legal anecdotes and miscellany**

## Public law

## 341 International law

.01 Philosophy; .02 Compends, etc., like 300

- .1 **International congresses**  
Of diplomatic agents for settling international relations; Hague tribunal. Con-  
gresses on special topics go with their subjects; e. g. 332.44, on Coinage
- .2 **Treaties: texts and history**  
Class with most important country, dividing like 940-999
- .3 **Law of war Captivs Neutrals**
- .4 **International criminal law**
- .5 **International private law**
- .6 **Arbitration**
- .7 **Diplomacy**
- .8 **Consular systems**

## 342 Constitutional law and history

Divided by countries like 930-999. Under each, works may be divided: 1 Texts of  
constitution; 2 Conventions; 3 Systems; 4 Essays; 8 Polygrafy; 9 History  
For Administrativ law, see 350

## 343 Criminal law

- .1 **Criminal trials** *juvenile courts*
- .2 **Punishments**  
Corporal. Deth penalty. Hard labor. Confinement
- .3-9 **Of special countries** Divided by countries like 930-999  
Under each country, works may be divided: 1 Penal codes; 2 Reports; 3 Criminal  
procedure; 4 Text books and manuals

## 344 Martial law

## Private law

## 345 United States statutes and cases

Divide each of the sections .1-5, using 1 U. S.; 2 Individual states arranged alfa-  
betically; e. g. Statutes at large of U. S. 345.11; Acts and resols of Mass. 345.12

- .1 **Session laws**
- .2 **Codes Revised statutes**
- .3 **Law digests (of statutes)**
- .4 **Reports**  
Use .4 U. S. supreme court; .41 U. S. circuit and district courts; .415 Periodical  
collections of various states; e. g. Eastern Reporter, etc; .42 Reports of individual  
states
- .5 **Digests of cases**

346 British statutes and cases

Divided like 345. Includes all reports in English language except U. S. reports

347 Treatises American and English private law

.01 Philosophy .02 Compendia .03 Dictionaries .04 Essays .05 Periodicals  
.06 Societies, bar associations .08 Polygraphy .09 History

Put law of special topics with the subject; e. g. Insurance law, 368. The divisions  
.1-8 may be disregarded and all English law textbooks arranged in one alphabet by  
authors. An elaborate division, similar to Medicin, will be published after further  
revision

- .1 Persons      Legal capacity
- .2 Realty
- .3 Chattels      Movables
- .4 Contracts
- .5 Torts
- .6 Family law and inheritance
- .7 Commercial and maritime
- .8 Equity
- .9 Civil trials      Procedure
- .91      Civil trials
- .92      Pleading
- .93      Forms
- .94      Evidence      Testimony in general not limited to civil trials
- .95      Remedies
- .96      Justices of the peace      Notaries      Sheriff
- .97      Organization of courts
- .98      Jurisdictions
- .99      History of special courts

348 Canon law

349 Foren law

Divided like 930-999, and under each modern state divided like 345 with decimals  
.71 to .79 used for Treatises like 347. e. g. 349.4475 is French law of torts. 349.442  
is French code. Roman law is divided:

- .37 Roman law
  - .01 Philosophy .02 Compendia .03 Dictionaries .04 Essays; .05 Periodicals;  
.06 Societies .07 Education .08 Polygraphy .09 History
- .371 Sources: Ante-Justinian
- .372      "      Justinian
- .373 History and criticism of sources
- .374 Institutes: Ancient Roman law
- .375 Pandects: Modern      "      "
- .377 Treatises on special topics  
Divided like 347

# 350 Administration

Including Military science. .1 Theory; .2 Compendis; .3 Dictionaries; .4 Essays; .5 Periodicals; .6 Societies; .7 Education; .8 Polygraphy; .9 History.

A large number of the questions properly placed under Administration are clast with related topics elsewhere. Some of these are repeated here, both to show the scope of the subject 'Administration' and to provide for cross references by those specially interested. See also 342 Constitutional law and history

## 351 Administration of central government

- .1 **Organization of civil servis**
  - Officers. Method of election or appointment. Official functions and powers.
  - Mutual relations
- .2 **Civil lists**
- .3 **Examination**
- .4 **Tenure of offis**      **Disciplin**      See 351.92 Power of removal
- .5 **Pensions**
- .6 **Reform**      **Spoils system vs offisholding class**
- .7 **Subjects of administrativ action**
  - See also 353 United States; 354 Foren states
- .71 **Financial administration**
  - See 336 Finance, public property, taxation
- .72 **Budget**      **Public accounts**
- .73 **Internal affairs**      See also 323 Domestic relations
- .74 **Police mesures**
- .75 **Public safety and order**      See also 352.2 Police; 365 Prisons, etc.
  - .751 Press
  - .752 Reunion and association
  - .753 Wepons
- .76 **Vice and good manners**
  - .761 Liquor regulation      See 178 Temperance
  - .762 Public gaming      See 174.6 Ethics
  - .763 Public begging      See 339 Pauperism
  - .764 Prostitution      See 176.5 Ethics
- .77 **Sanitary police**
  - See 352.4 Boards of helth; 614 Public helth, etc.
- .78 **Accidents**      See 614.8 Public helth
- .781 **Bildings**      See 614.85
- .782 **Fires**      See 614.84



351.8

Promotion of public welfare

.81

**Means of communication**

See 380 Commerce, communication

.811

Highways See 386; 352.7 Local government

.812

Railways See 385

.813

Waterways See 386; 387

.814

Ferries

.815

Bridges See 352.7 Local government

.816

Post offices See 383

.817

Telegrafs See 384

.82

**Trade and industry**

.821

Weights and measures See 389 Commerce

.822

Coinage and money See 332 Banks, money

.823

Landed industry

Agriculture See 630 Useful arts; 338.1 Production

Forests See 634.9 Agriculture; 333.7 Land

Mines See 622 Mining; 338.2 Production; 333.8 Land

.824

Commercial and manufacturing industry

See 380 Commerce; 338 Production

.825

Institutions of credit See 332 Banks, credit

Savings banks See 332.2

Mutual benefit societies See 334 Cooperation

Insurance See 368; 334.3 Cooperativ insurance

Monts de piété See 332.33

.83

**Labor** See 331 Capital, Labor, Wages

.84

**Public charity**

See 339 Pauperism; 360 Associations and institutions

.85

**Education and worship**

.851

Public education See 379 Education

.852

Public libraries See 027.4 Library economy

.853

Art museums See 708 Art

.857

Worship See 322 Church and state

Military and naval See 355-359 Army and Navy

Justis See 340 Law

Foren affairs See 341 International law; 327 Political science

.9

**Control over the administration**

.91

Administrativ control By superior officers

.92

**Disciplinary power**

Power of removal. See also 351.4 Tenure of offis

.93

**Supervision**

Power to annul or amend specific acts

.94

**Judicial control**

.941

**Ordinary courts** See 347.5 Law of torts

.945

**Criminal courts** See 343 Criminal law

.95

**Administrativ courts**

.96

**Parliamentary control**

.97

Petitions and addresses

.98

Investigations

.99

Impeachment

## Local government: county, town, city

See also 379 Public schools; 020 Libraries

**General questions of municipal administration**

- .001 Growth and importance of cities
- .002 Cities and state control
- .003 City as a juristic person, a corporation  
See also 347.1 Law of corporations
- .004 City organization, municipal elections
- .005 Municipal civil servis

**Local administration of special countries and cities**

.03-.09 divided by countries like 930-999

**.042 Local government in England**

Arrange matter relating to special cities alfabetically by name of city and subdivide the remaining works as follows:

- I County
- 2 Municipal boro
- 3 Parish
- 4 Union See 339 Pauperism
- 5 Sanitary districts See 614 Public helth
- 6 School districts See 379 Education
- 7 Highway areas See 352.7
- .043 **Local government in Germany** Special cities like 352.042
  - I Province: landtag, provincial committee, director
  - 2
  - 3 Circle Circle diet Circle committee Landrat
  - 4 Commune
  - 5 Towns
  - 6 Township
- .044 **Local government in France** Special cities like 352.042
  - I Department
  - 2 General council.
  - 3 Departmental commission
  - 4 Prefect
  - 5 Arrondissement
  - 6 Commune
  - 7 Mayor
  - 8 Municipal council

**.I Finances: city property and local taxation**

See also 336 Finance

- .2 Police
- .3 Fire department See also 621.68 Fire engines; 614.84 Fires
- .4 Public helth: board of helth See also 614 Medicin
- .5 Public bildings and works
- .6 Water and sewerage works See also 628 Sanitary engineering
- .7 Streets Highways Bridges Parks
- .8 Licenses: hack, huckster, entertainment, etc.
- .9 Other topics

## 353 United States and state government

See also 342.73 Constitutional law and history

- .01 Administrativ centralization
- .02 Separation of powers
- .03 President
- .04 Departments
- .05 Cabinet

### .1 State department

### .2 Tresury department

See also 336.73 Finance of U. S.

### .3 Interior department

### .4 Postoffis department

See also 383

### .5 Judiciary department

### .6 War department

See also 355 Army: military science

### .7 Navy department

See also 359 Navy: naval science

### .8 Other departments

### .9 State government Divided like 974-979

Apply same decimals for state and foren governments. For departments not here specified use .8 and .9 and any of above numbers left blank; e. g. for a state having no navy, .7 is free for some local use. Judiciary dept. of D. C. 353.97535

353.9 includes history of regiments, unless covering a particular period of national history; e. g. the "history of the N. Y. 7th regiment in the civil war" is attracted to 973.74, but a general history of the same regiment is 353.97476

22

## 354 Organization of central government Foren states

See also 342 Constitutional law and history

Divided geografically by countries like 930-999. Under each country the U. S. divisions, 1 State, 2 Tresury, etc. may be used; e. g. State department of Great Britain, 354.421. Add also the following divisions:

### .42 Administration of England Central government

- 01 Administrativ centralization
- 02 Separation of powers
- 03 Monarch
- 04 Privy council
- 05 Cabinet

### .43 Administration of Germany Central government

- 01 Administrativ centralization
- 02 Separation of powers
- 03 Empire
- 04 Bundesrat
- 05 Emperor
- 06 Ministry
- 07 States Monarchs
- 08 Landtag Ministers Council of state
- 09 Free cities

### .44 Administration of France Central government

- 01 Administrativ centralization
- 02 Separation of powers
- 03 President
- 04 Ministers
- 05 Council of state

# 355 Military science Army

Military in broad sense of land and sea forces; but limited to military science, tactics, etc. For War department of U. S. see 353.6; for history of regiments see, 353.9 and 4 under special wars in 973. See also 623 Military engineering  
.01 Theory .02 Compendis .03 Dictionaries .04 Essays .05 Periodical  
.06 Societies .07 Education .08 Polygrafy .09 History

## .1 Military life

Including honor, honors and insignia, and standards

### .11 Servis periods and retirement

#### .114 Termination of servis Resulting status

### .12 Military life in peace and war

### .13 Military honor Disciplin

Professional morality; rewards

### .14 Uniforms

System; distinguishing rank; style, color and esthetic considerations

See also 355.81 Clothing of troops

### .15 Colors and standards

### .16 Military celebrations

Commemorations, anniversaries, jubilees

## .2 Recruitment

Voluntary and compulsory enlistment; recruits from military schools. Obligations of citizens with respect to national defense

For relations of government to maintenance of public order see 351.74 Government police mesures

## .3 Organization of military forces

### .31 Army units and organization

For special arms see 356 Infantry, 357 Cavalry, 358 Artillery. For classification according to military obligation and field of servis see 355.35

### .33 Officers Military hierarchy

#### .331 Command in general

General principles and rules of command, whether of large or small unit

### .34 Special servis

Outside the regular arm or grade

### .35 Armies General staff

Armies clast according to military obligation and field of servis; e.g. European armies of first line, 2d line, colonial armies

For military units see 355.31

## .4 Tactics and strategy

### .41 Logistics and field servis

### .42 General tactics

See each arm for its peculiar tactics

### .43 Strategy

### .44 Siege warfare

For siege engineering see 623.2

### .45 National defense

### .47 Military geografy

Divided like 930-999

Geographic works from military point of view and works on strategic conditions of theaters of operations

### .48 Wars, campains, battles, military exploits

Better clast with wars to which they belong in 930-999

- 355.5 **Servis**  
 Garrison and field servis, mobilization; instruction of troops and subaltern grades; maneuvers
- .52 **Grand maneuvers**      **Instruction camps**
- .6 **Military administration**  
 Class here only what concerns the workings of administrativ servises. For personnel and organization of these servises see 356.3
- .7 **Military establishments**  
 Organization and servis  
 See also 359 Naval establishments  
 623.63 Military establishments (military engineering)  
 725.12 Architecture of military bildings
- .8 **Military equipment and supplies**
- .81 **Clothing**      **Camp outfit**
- .82 **Small arms and ammunition**  
 Administrativ questions: working and reserv supply; storage, issue, etc.  
 For mechanism and relativ efficiency of different kinds see 623.4
- .83 **Wagons**      **Harness**      **Transportation outfit**
- .84 **Pioneering tools**
- .85 **Other tools**      **Instruments**
- 356 **Infantry**
- .1 **Organization**  
 Light infantry, mounted infantry, cyclist infantry
- .12 **Special colonial infantry**
- .13 **Organizations eventually subject to mobilization**
- .14 **Volunteer corps**
- .15 **Irregular troops**  
 'Corps francs' existing only during war
- .16 **Special infantry troops**  
 Sharpshooters, etc.
- .2 **Staff and special servises**
- .3 **Administrativ staff and servises**  
 Personnel and organization
- 357 **Cavalry**      **Mounted servises**
- .1 **Cavalry proper**
- .2 **Remount and training servises**
- .3 **Army train**
- 358 **Artillery, engineers and other technical servises**  
 For ordnance, gunnery, etc. see 623 Military engineering
- .1 **Artillery**
- .2 **Engineers**
- .3 **Other technical servises**
- 359 **Naval science**  
 Divided by .01-.09 like 355. See also 623.8 Naval architecture



## 360 Associations and institutions

This covers what is best known as "Charities and corrections," and general works on this topic go in 360. Under each section .9 is used as in 362.9, for grouping by location; e. g. Clubs of London are 367.9421

### 361 Charitable, *private*

See also 377.7 Charity schools For humane societies see 179.2

### 362 Hospitals, asylums, and allied societies

For inebriate asylums, see 178.6 Temperance reformatories

#### .1 Sick and wounded Incurables Eye and ear infirmaries Lying-in hospitals Dispensaries

#### .2 Insane

See also 132.1 Insanity

#### .3 Idiotic

See also 132.2 Idiocy; 136.7622 Child study; 371.922 Education

#### .4 Blind Def Dum

See also 371.91 Education

#### .5 Paupers *poor houses*

See also 339 Pauperism; 331.6 Pauper labor

#### .6 Aged

#### .7 Children Orphans Foundlings

See also ethics, 179.2 Cruelty

#### .8 Other

#### .9 Special countries

Divided like 930-999; e. g. 362.942 Hospitals of England

### 363 Political

Tammany, Primrose leag, Ku Klux, etc.

### 364 Reformatory

Schools; discharged convicts; criminal classes

### 365 Prisons Disciplin

See also 331.5 Convict labor

### 366 Secret societies

.1 Masons .2 Knights of Pythias .3 Odd Fellows .4 Rosicrucians

See also 371.85 College secret societies

### 367 Social clubs

### 368 Insurance

See also 334.3 Cooperativ insurance

#### .1 Fire

#### .2 Marine

#### .3 Life

#### .3I Annuities

See also 336.35 Public annuities; 519.5 Probabilities

#### .4 Accident Liability

#### .5 Animal and crop, agriculture

- 368.6 Plate glass
- .7 Boiler
- .8 Credit and bonds Land titles
- .9I Government control Commissioners
  - .94-99 divided geographically like 940-999; e. g. Insurance in New York (including state reports, etc.) is 368.9747

## 369 Other associations and institutions

*patriotic societies*

- .I Hereditary and patriotic societies (American)
  - .II General associations
    - .I11 Regular army and navy union
    - .I12 Society of veterans of the regular army and navy
    - .I13 Military and naval order of the United States
    - .I14 Medal of honor legion
    - .I15 Military order of foren wars of the United States
    - .I16 Order of the old guard
      - Incorporated 31 Jan. 1896; organized 15 Oct. 1896
    - .I17 Naval order of the United States
    - .I18 Society of American wars
    - .I19
  - .I2 Colonial societies
    - .I21 Society of colonial wars
    - .I22 Society of colonial dames of America
      - A New York society with chapters in other states; known also merely as Colonial dames of America
    - .I23 National society of colonial dames of America
      - A federation of separately incorporated societies in about 40 different states
    - .I24 Society of the Mayflower descendants
    - .I25 Order of the founders and patriots of America
    - .I26 Colonial order of the acorn
      - " society of Pennsylvania
      - " daughters of the 17th century
    - .I29
  - .I3 Revolutionary societies
    - .I31 Society of the Cincinnati
    - .I32 Society of the daughters of the Cincinnati
    - .I33 Sons of the American revolution
    - .I34 Sons of the revolution
    - .I35 Daughters of the American revolution
    - .I36 Daughters of the revolution
    - .I37 Children of the American revolution
    - .I38
    - .I39

- .141 Society of the war of 1812
- .142 United States daughters of 1776-1812
- .143 Military society of the war of 1812
- .144 Society of the second war with Great Britain in the state of  
New York
- .145 Aztec club of 1847
- .146 National association of veterans of the Mexican war
- .147
- .148
- .149
- .15 Civil war societies, Union**
- .151 G. A. R. (Grand army of the republic)
- .152 Military order of the Loyal legion
- .153 Society of loyal volunteers
- .154 Union veterans union
- .155 Union prisoners of war association
- .156 Society of the army and navy of the Gulf
- .157 National association of naval veterans
- .158
- .159
- .16**
- .161 Woman's relief corps
- .162 Woman's veteran relief union
- .163
- .164
- .165 Society of the sons of veterans, U. S. army
- .166
- .167
- .168
- .169
- .17 Civil war associations, Confederate**
- .171 Confederate survivors association
- .172 Confederate veterans association
- .173 United sons of confederate veterans
- .174 " confederate veterans
- .175 Daughters of the confederacy
- .18**
- .181 Spanish war veterans
- .182 Society of the army of Santiago de Cuba
- .183 Naval and military order of the Spanish American war
- .4 Young peoples societies**
- For religious societies see 267.6
- .41 Mixt: boys and girls**
- .42 Boys
- See also 136.77 The 'gang'
- .43 Boy scouts
- .46 Girls
- .47 Campfire girls



# 370 Education

Disciplin in broad sense

- .1 **Theory of education**      **Meaning**      **Aim**  
Including philosophy of education, science of education and general methodology. Not limited to any curriculum, school or class of schools. For specific methods, pedagogics, see 371
- .109      **History of educational theory**
- .15      **Psychology applied to education**  
Imitation, suggestion, play, etc. Divided like 150 Psychology; e. g. function of memory in education 370.154
- .2
- .3      **Dictionaries**      **Cyclopedias**
- .4      **Essays**      **Addresses**
- .5      **Periodicals**  
General. For periodicals limited to a special topic see that topic; e.g. kindergarten magazines 372.205. See also 371.805, 378.05
- .59      **Educational almanacs and kalendars for teachers**
- .6      **Organizations**      **Conventions**      77.8.6.
- .61
- .62      **Associations**      **Clubs**  
Permanent societies, their meetings and reports. Divided like 940-999
- .63      **Congresses**      **Conventions**  
Occasional congresses and conferences: international or interstate
- .7      **Study of education**      **Institutions and organizations for training teachers**  
Means and methods, including normal schools, institutes, etc. For need of training, kind and amount, see 371.12
- .71      **Teachers meetings**  
Class meetings of teachers of a single institution (faculty meetings) with the institution; see table for school and college publications under 378.4-9
- .711      **Plan and organization**  
Frequency, time, place, control, cost, etc.
- .712      **Programs, courses of study**
- .714-9      **In special places**  
Divided geographically like 940-999
- .72      **Teachers institutes**  
Divide like 370.71 above
- .73      **Normal schools**  
Institutions primarily for training teachers; e.g. state normal schools, Teachers college of Columbia university; often with attacht 'model' or practis schools, in which normal students teach under supervision of their instructors. For training classes attacht to regular schools see 370.75
- .731      **Plan and organization**      **Aims and functions**      **Scope**  
Length and time of terms. Support: public, private
- .732      **Courses, programs**      **Credentials**
- .733      **Adjuncts: practis or model schools**
- .734-9      **Special countries and schools**  
Divided geographically like 940-999
- .74      **Education museums**  
Including exhibits at international expositions, state and county fairs, etc.
- .75      **Training classes**  
Class here teachers classes attacht to regular schools. For normal schools see 370.73

- 370.8 **Polygraphy**
- .81 Collected writings of a single author  
If not limited to a definit topic; e.g. Horace Mann, Henry Barnard, etc.
  - .82 Collected writings of several authors
  - .9 **History, description**  
General works covering both ancient and modern history, and including history of institutions, practis and description of conditions. See also 136.791 The child among uncivilized and semicivilized peoples
  - .92 **Educational biography**  
Preferably clast in 923.7
  - .93-9 **History of education in special countries**  
Subdivided like 930-999
    - .9401 Medieval Europe
    - .9405 Modern Europe

## 371 Teachers Methods Disciplin

Practical methods. See 370.1 for theories of education. The following divisions concern instruction of all grades

- .1 **Teachers Teaching personnel Professors, masters, instructors**  
See also 370.7 Training of teachers
  - .101 **Duties and responsibilities Mission**
  - .102 **Personal influence**
  - .103 **Relations to parents**  
Mutual duties of parents and teachers
  - .104 **Relations to community Public status**
  - .105 **Social status**
  - .11 **Qualifications Personality**  
See also 371.18
  - .12 **Need of training; kind and amount**  
Discussion of special preparation of teachers and professors for their vocation. For teachers training schools and classes, see 370.7
  - .13 **Examination Certificates Certified teachers Licenses**
  - .14 **Appointment Organization of teaching force**
  - .142 **Appointment Contract Discharge Tenure**
  - .143 **Appointing body**  
Board, committee, principal
  - .145 **Agencies**  
Bureaus and associations for supplying teachers
  - .15 **Professional status**  
Permanent profession vs steppingstone theory

- 371.16 Salary and promotion Compensation Amount  
of servis  
For pensions and insurance see 371.17
- .161 Salary
- .162 Fees
- .163 Allowance for expenses
- .164 Residence Living expenses
- .165 Promotion Advance in rank  
For salary promotion see 371.161
- .166 Hours Daily or weekly servis
- .167 Vacation Yearly servis
- .168 Sabbatic year
- .17 Pensions and insurance for teachers  
Carnegie pension fund
- .18 Women as teachers  
Feminization of teaching force
- .19 Other topics
- 371.2 School organization School records  
Diary. 'Logbook.' For government of students, disciplin, see 371.5 For school supervision see 379.15
- .21 Admission Enrolment Matriculation  
For college entrance requirements see 371.214. Standards of individua schools are clast with the school
- .211
- .212 Grammar or intermediate school admission standards  
Including standards of German bürgerschulen
- .213 High school standards  
Including standards of German gymnasia, French collèges and lycées
- .214 College standards  
Undergraduate and nonprofessional graduate courses in (American) colleges and universities
- .215 Professional and technical school standards
- .22 Tuition fees Free tuition Scholarships  
See also 371.162 Professors fees; 379.13 Tuition fees of nonresiden pupils in public schools; 378.34 Scholarships
- .23 Terms Vacations Holidays Breaking up  
See also Hygiene of vacations and holidays 613.76, 613.77; Closing for diseases, 371.712
- .234 Terms in 2 or more places  
For floating schools see 371.392
- .24 Hours Recess  
For exercise see 371.73 Care of body
- .25 Classes Grades  
For grading of schools, see 379.17. See also 371.394 Individual instruction
- .253 Length of school courses; e. g. 6 year course  
See also 378.241 Length of college course
- .26 Marking system

- 371.27 Examinations: oral, written Cramming  
 See also 428.9 Language  
 For competitiv examinations see 371.53
- .28 Promotions Degrading
- .29 Other topics
- .291 Graduation Diplomas  
 May be subdivided like 371.21 See also 378.2 College degrees
- .3 **Methods of instruction**  
 See also special subjects; e.g. Science study, 507
- .31 Rote or concert teaching
- .32 Text books Recitations  
 Use of textbooks. Textbooks themselvs are clast with the subjects treated
- .33 Lectures Oral instruction
- .34 Developing or inductiv method
- .35 Art of questioning Catechetic method
- .36 Topical method
- .363 Correlation
- .365 Special days  
 Historical days: Discovery day, Flag day, Memorial day, Constitution day, Independence day. Birthdays: authors and other noted persons; Washington's birthday. Nature: Arbor day, Bird day. Other: Thanksgiving, Christmas, Easter, etc
- .37 Seminary method
- .38 Laboratory work
- .39 Other
- .392 Floating schools or colleges  
 Combining travel and shipboard instruction
- .393 Trips, excursions, visits
- .394 Individual instruction Batavia system  
 By regular teacher or tutor, at home or at school See also 373.1  
 Private instruction
- .395 Small classes  
 See also 371.47 Quincy system
- .4 **Systems of education**  
 For Fröbel's system see 372.2 Kindergarten
- .41 Bell and Lancaster, or monitorial Mutual system
- .42 Fellenberg or manual training; vocational schools, industrial education  
 For equipment and cost of manual training schools or departments see 371.623 Machine shops, 371.676 Apparatus, etc. For subjects of study see 375.01-9 For individual schools see 607 or 378.99
- .421 Educational value
- .422 In elementary schools
- .423 In secondary schools
- .424 In special schools
- .429 History and development

- 371.43 Military organization      Military instruction  
 .44 Pestalozzian  
       Class here all Pestalozzi's educational writings  
 .45 Jacotot  
 .46  
 .47 Quincy system  
 .5 Government      Disciplin      Authority  
 .51 Rules  
 .52 Attendance      Truancy      Tardiness      Absences  
       See also 379.23 Compulsory education  
 .53 Rewards      Prizes      Favors      Approbation  
 .535 Interschool literary contests  
       Competitiv examinations. For interschool and intercollegiate de-  
       bates see 374.245 For interschool athletics see 371.75  
 .54 Punishment      Disciplinary penalties  
       Limits of school jurisdiction.      Disciplin of consequences  
 .55 Corporal punishment  
 .56 Other punishments  
       Confinement; tasks; expulsion; suspension; discharge  
 .57 Personnel responsible for disciplin      Monitors  
 .58 Moral government      Alcott system  
 .59 Student self government      College systems  
 .595 School city      Ray system  
 .6 School premises and equipment  
 .61 Grounds      Site  
       School playgrounds  
 .62 Bildings  
       Requirements peculiar to schools. See also 727 Architecture of educa-  
       tional institutions. The following subdivisions apply to both special  
       rooms and separate bildings  
 .621 Study, lecture and assembly rooms  
 .622 Library and museums  
       Art, science, etc. See also 022 Library bildings; 371.64 Function  
       of school libraries; 021.3 Relation of libraries and schools; 027 .7-.8  
       Reports of college and school libraries  
 .623 Laboratories      Observatory      Machine shop  
       See also 542.1 Chemic laboratories; 522.1 Observatories  
       371.66 Scientific apparatus and supplies  
 .624 Gymnasium  
       See also 725.85  
 .625 Other special rooms or bildings  
       Dormitories, clubs, infirmaries, Y.M.C.A. and Y.W.C.A.  
 .626 Sanitation      Lavatories  
 .627 Lighting  
 .628 Heating and ventilation  
 .629 Accessories  
       Elevators, lifts, telefones, etc.

- 371.63      **Furnishing and decoration**
- .631      **Furniture**  
             Blackboards, desks, chairs, benches. For globes and maps see 371.66
- .632      **Musical instruments**
- .633      **Floors: bare, covered**  
             See also 721.6      Architectural construction;  
                             022.96      Library buildings  
                             645      House decoration
- .634      **Walls: tints, covering**
- .635      **Decoration**  
             See also 729      Architectural decoration
- .636      **Pictures, frescoes      Glass**
- .637      **Sculpture**
- .638      **Plants**
- .639      **Other decoration**
- .64      **Libraries**  
             Character and functions. For relation to public library see 021.3; to relation to other school rooms and buildings see 371.622. See also 027.8 School libraries; 027.7 College libraries
- .641      **Relations of library to faculty and students**
- .642      **School traveling libraries**
- .643      **School reading lists**  
             See also 028.5 Reading of young
- .644
- .645      **Elementary school libraries**
- .646      **Secondary school libraries**
- .647      **College and university libraries**  
             Departmental and seminar libraries
- .648      **Professional and technical school libraries**  
             In 371.645-8 may be class matter pertaining to desirability and scope of such libraries, tho it is better in 027.7-.8 with reports and other matter pertaining to their management
- .65      **Museums: character and functions**  
             Divided if wisht like 010-999: e.g. 371.655 Science museums; 371.657 Art museums Limited to character and functions of museums attacht to teaching institutions; see also 708 Art museums and form division 074 under special subjects
- .66      **Scientific apparatus, laboratory equipment and supplies**  
             Divided like 500; e.g. 371.662 Astronomic observatory
- .67      **Other apparatus, equipment and supplies**  
             Divided if wisht like 010-999; e. g. 371.6791 Globes, maps, etc.
- .7      **School hygiene**
- .71      **Helth of students      Overstudy      Fatigue**
- .711      **Sanitary conditions and inspection**  
             Board of helth. For sanitary engineer's side see 371.626
- .712      **Medical inspection**  
             For personal conditions affecting helth and intellectual progress; e.g. clenliness, contagious diseases, nervous disorders, defectiv eyes, ears or teeth. Closing schools on account of epidemic or contagious diseases

371.713

**Unhygienic postures**

See also 371.632 Furniture (ill designd desks and seats)

.716

**School meals**

Discussion. Administrativ problems: space, cost, whether wholly or partly free, etc. For management of lunch room, suitable food, etc. see 642.58

.718

**Open air schools**

.72

Care of eyes Effect of study

.73

Care of body Gymnastics Calisthenics

For systems of gymnastics or physical training, and books of exercises see 613.71

.731

**Educational influence of physical training**

.732

**Gymnastics Calisthenics**

.732<sup>2</sup>

In elementary schools

.732<sup>3</sup>

In secondary schools

.732<sup>4</sup>

In colleges

.732<sup>5</sup>

In special schools

.732<sup>6</sup>

In girls' schools

.733

**Military drill**

For military organization of school see 371.43

.734

**Fencing**

.735

Swimming Bathing

.736

**Riding**

.737

Walking School promenades

.74

Recreations Games, etc. Athletics Di-  
versions *play grounds for school*

See also 371.61 School playgrounds; 613.74 Hygiene of play; 796 Outdoor sports

.75

Championship games Boat races Inter-  
school athletics

See also 175.7 Ethics; 613.73 Hygiene; 796 Outdoor sports

.79

**Other special topics**

.8

**Student life and customs** *student organizations*

Various aspects of student life and student activities outside regular courses of study

See also 784.6 College songs; 378.29 College costumes

.805

**Student periodicals**

Discussion here. Periodicals themselvs preferably with their schools

.81

**Student honor**

Cribbing Cheating Keys Ponies Copying

.82

Fagging and hazing Bullying German  
student duels

.83

Student organizations German corps

.836

**Ancient student societies**

.84

**Literary societies**

.85

**Secret societies** *high school*

Class all college chapters here, thus bringing the fraternity together, with reference from the college. See also 366 Secret societies

.86

Society premises Society houses Halls  
Temples, etc

- 371.87 Student houses Lodgings Dormitories  
 .88 Commons Student restaurants Eating clubs  
 .89 Customs Celebrations Triumphs, burnings, etc  
     Anniversaries Ceremonious receptions Student banquets  
 .895 **School plays**  
     Divided by language like 400; e.g. 2 English, 3 German  
 .896 **Class days**  
     Of special institution, with institution  
 .9 **Education of special classes**  
     General questions; kind and methods of education for these classes.  
     For institutions see 362, 364. For study of abnormal children see 136.76  
 .91 **Physically defectiv**  
     See also 362.4 Asylums for blind and def  
 .911 **Blind**  
     See also 655.38 Printing for the blind  
 .912 **Def**  
     Finger alfabet See also 378 for degreeconferring colleges  
 .913 **Blind-def**  
 92 **Mentally defectiv**  
     Divided like 132. See also 362.3 Idiot asylums, 920.8 Lives of idiots  
     cranks, etc.  
 93 **Morally defectiv Delinquents**  
     See also 364 Reformatories. Criminal classes  
 .94 **Other abnormal classes**  
     See also 136.764-9 in Childstudy  
 .945 **Exceptionals Precocity**  
 .947 **Dependents**  
     See also 362 Hospitals, asylums and allied societies  
 .95  
 .96 **Special ranks**  
     See also 375.002 Courses for different social classes  
 .961 **Princes**  
 .962 **Nobles**  
 .97 **Special types**  
     See also 136.77 Boys, the 'gang'  
 .974 **Freedmen Negroes**  
     See also 378.75-.76 for degreeconferring colleges  
 .975 **Indians**  
 .976 **Oriental**  
 .98 **Special nationalities**  
     Special schools for foreners; e. g. Germans, Hungarians, Russians,  
     Japanese in United States.  
 .99 **Coeducation of races**



Primary schools. Dame schools. Infant schools (under 7 years)  
 See also Day nurseries 362.7; Minding schools 362.5 or 362.7; Crèches 362.7  
**Pedagogs and didactics of primary schools**

.01  
 .1

May be used like 136.7 by those who insist on having childstudy with education

.2 **Kindergarten**

See also 371.44 Pestalozzian, for theory and early history. Put Fröbel's work and development of his system here

.201  
 .202  
 .203  
 .204  
 .205  
 .206  
 .207  
 .208  
 .209

Theory Principles

Essays  
 Periodicals  
 Societies

Training of kindergartners

History

Divided if wisht like 940-999

.21  
 .211  
 .212  
 .213  
 .214  
 .215

Methods

Gifts and occupations

Gifts

Occupations

Stories

Songs and games

.22  
 .23

Influence of kindergarten

Relation to other schools

.3  
 .35

**Observing powers Object teaching Science**

Nature study

Divided like 500-599; e.g. Birds 372.35982

.36  
 .4

Gardening

**Reading Alfabet Fonics and word methods**

**Spelling**

See also 428.6 Elementary readers

.45

Simultaneous teaching of reading, writing and spelling

.5  
 .51

**Elementary writing and manual work**

See also 741 Freehand drawing

Writing

First efforts, imitating printed roman letters

.52  
 .53

Drawing Design

See also 741 Drawing

.54  
 .55

Clay modeling

Sewing, etc

Elementary basketry, weaving and braiding

**372.6 Elementary grammar Language lessons**

See also 400 Philology, subdivision 8 under each language

- .61 Mother tung
- .65 Second language
- .7 **Elementary arithmetic**

Including mental arithmetic. See also 511. For Abacus see 511.2

**.8 Other studies**

Divided if wisht like 010-999; e.g. 372.82 Religion

**.89 Elementary geograpy**

See also 910.7. Elementary textbooks may be put with their subjects, but a primer of geograpy is more useful to a student of elementary schools and methods than to one interested in Geograpy, Description, and Travel. Text books, except primary, go with their subjects

**.9 Special countries and schools: history, reports, etc.**

Divided like 940-999; e.g. 372.942 English elementary schools. Put here elementary schools whether public, endowd or private

**373 Secondary Academic Preparatory**

Class here discussions of general theories, methods, etc. pertaining specifically to secondary education, regardless of source of support. Class here also all private or endowd secondary schools for boys or both sexes; but class all public (taxsupported) schools in 379.4-9, all primary schools (regardless of support) in 372.9, all schools and colleges solely for women in 376, and all colleges for men or coeducation in 378. Class methods and questions peculiar to monastic, diocesan and parochial schools in 377, but class the schools themselves in 372, 373, 378, etc. according to their grades

For specific topics see 371

**.1 Private instruction: tutor, governess, coach**

- .11 Relativ advantages of instruction at home and in school

See also 371.394 Individual instruction

**.2 Day schools Boarding schools**

**.4-9 Special countries and schools: history, reports, etc**

Divide like 940-999, as, 373.42 Higher English schools, Eton, Harrow, etc

*debate books*  
*study clubs*

Cultural, personal aspect of education.

Subdivided by o with form numbers if wish; e.g. 374.05 magazines pertaining to this work, 374.06 Conferences, conventions, institutes, general meetings.

The term Home education covers the broad field of adult self education thru private reading, study clubs and reading circles, summer, vacation, evening and correspondence schools, lecture courses and other forms of extension teaching and other agencies for extending more widely opportunities and facilities for education outside the usual teaching institutions.

For relations of this work to libraries, the natural centers for such activities see 021.2 See also 378.13 University extension

*With or without personal guidance*

**.1 Solitary study Private reading Conversation**

Advantages to be derived from reading. Study alone with or without aid of reading lists, syllabuses, etc

Reading lists themselves, syllabuses and other aids to study belong with other bibliographies (016) or with compends under their subjects. They may however, if prefered, be kept together under 374.1, divided like the classification; e.g. syllabus on English history 374.1942; on library economy 374.102

See 028, for preparation of guides, policy, methods, etc.

**.2 Associated study Clubs**

**.21 Study clubs**

Class here 'travel clubs' which study about places without traveling to see them. See also 374.25

**.22 Reading circles Book and periodical clubs**

**.23 Lyceums Literary clubs**

**.24 Debating societies Oratorical clubs**

**.245 Interschool and intercollegiate debates**

For interschool literary contests see 371.535

**.25 Traveling clubs Educational value of travel**

Clubs which travel for study. See also 374.21

**.3**

*With personal guidance*

Either alone or in groups, clubs or classes

**.4 Correspondence teaching Manuscript aids**

Including methods of correspondence teaching

**.43 Societies for encouraging home study**

**.44-.49 Correspondence schools**

General schools divided like 940-999. Special schools are better class with their subject, with only a reference here: e.g. correspondence schools of agriculture 630.7

**.5 Lectures**

Single lectures, or series of lectures on different subjects; courses on the same subject unsupported by any other of the 7 factors of a complete extension course: i.e.

1 Lectures	3 Class	5 Guided reading	7 Examination
2 Syllabus	4 Papers	6 Club	





## 378 Colleges and universities

With power to confer degrees. For men only and for both sexes. For women's colleges see 376.8

- .01 **Definition of college and university**      **Aim**  
Advantages and influence of college training; e.g. on business capacity
- .014 **College terminology, 'slang'**  
Including also student slang. See also 427, 437, etc.
- .05 **Academic periodicals**  
Periodicals devoted to college and university interests. Those issued by colleges, schools, etc, are scattered either by subject or under college numbers
- .06 **General college associations**  
Association of New England colleges See also 370.6
- .068 **Associated alumni**      **University clubs**  
For alumni associations of any one college, see T under college number
- .069 **Duties of college men as a body**
- .1 **Organization**      **Government**      **Location**      **Scope, field**  
Classes, colleges, graduate departments, etc.
- .11 **Administrativ officers**
- .113 **Disciplinary officers, judicial corps, university court**  
President, deans, etc.
- .12 **Teaching staff**      **Faculty**  
Exchange of professors. For qualifications see 371.11
- .121 **Freedom of teaching**  
See also political science, 323.444
- .13 **University extension**  
Conducted by universities. See also 374
- .14 **College year**      **Summer or vacation instruction**  
**All the year session**
- .15 **Location and size**      **Large vs small**
- .153 **City vs country colleges**
- .16
- .17
- .2 **Academic degrees and costume**      **College colors**  
See also 614.31      **Medical degrees**
- Degrees**
- .21 **Degree conferring body and powers**  
College, university or state. See also 614.21      **State regulation of medical education**
- .22 **Graded degrees**  
Pass, honor, cum laude, magna cum laude, etc.
- .23 **Degrees in course**  
Advanced degrees conferrd at specified periods on graduates in good standing, without evidence of advanced attainments

- 378.24 Degrees for completion of courses  
 With or without examination
- .241 Time and residence required Length of college course
- .242 Subjects allowable for liberal degree  
 Whether technical courses should be credited toward liberal degrees
- .243 Differentiation of degrees: B.A. B.S. B.L. etc
- .244 Degrees on examination  
 With or without residence
- .25 Honorary degrees
- .26 Degrees by purchase or forgery
- Insignia
- .27 Seal Coat of arms Motto
- .28 Colors: institution and class College flags
- .29 Academic gowns and hoods
- .3 Endowment of research Fellowships Scholarships Student aid
- .31
- .32 Endowment of research  
 Carnegie institution. Incentiv to research. Prizes. Opportunities for research. Nobel prizes. Competitions
- .33 Fellowships
- .34 Scholarships  
 Rhodes scholarships Traveling scholarships
- .35
- .36 Student aid societies Student loan funds
- .37 College employment bureaus Faculty committees  
 Other organizations for securing work for students
- .38 Student expenses Extravagance Economy
- .4-.98 Special countries and colleges: History, reports, etc  
 For women's colleges, see 376.8  
 Subdivide like 940-999, e.g. 378.42 English universities; 378.741 Maine colleges  
 The various colleges of any section may be given each a number or be arranged alphabetically. Under each college arrange publications by the following table, placing these letters *after* the letter (or letter and figures used to designate the college; e.g. a history of Harvard college would be markt 378.744 H E, and a second history would be numberd 378.744 H E r. The practical convenience of this plan outweighs the objection that it introduces classification into the book numbers  
 If preferd, colleges and universities may be arranged alphabetically under continent number, insted of being clast first by country or state; e.g. European universities under 378.4 in alfabetic order regardless of country. United States colleges and universities all in one alfabet under 378.73
- .99 Professional, technical and other special schools  
 Professional education  
 Best kept with subject, but may be compactly groupt here. Divided like the classification: e.g. 378.992 Theologic schools, 378.9934 Law schools, 378.9961 Medical schools

TABLE FOR SCHOOL AND COLLEGE PUBLICATIONS

A	Charter and statutes			
B	Trustees	Regents	Resolutions, reports, etc	
C	Administration	President, chancellor	Reports, etc	
D	Finances	Treasurer's reports		
E	History	Foundation, growth, etc		
F	Biography	Necrology		
G	General catalogs	Triennials, etc		
H	Annual catalogs	Attendance, registers, etc		
I	Handbooks	Circulars of information		
J	Bulletins	Official periodicals		
K	Commencements, inaugurations, etc		Baccalaureate and other	
	addresses			
L	Programs	Tickets	Memorabilia	
M	Faculty (as a body)	Publications	Regulations	Certificates
	for admission			
N	Lectures	Class manuals	Examination questions	
O	Student theses	Orations, essays, etc		
P	Student catalogs	Society annuals, etc		
Q	Student periodicals			
R	Student societies, including periodicals			
S	Student miscellany	Songs	Class day, etc	
T	Alumni	Societies, committees, etc		
U	Classes	Histories, records, etc		
V	Pictures	Class albums		
W	Buildings and grounds	Descriptions, maps, etc		
Z	Schools: divinity, law, medical, etc			

379 Public schools Relation of state to education

.I	Public school system			
.II	School funds			
.I2	National and state aid to education			
	See also 336.14 Finance			
.I2I	Public aid to private and sectarian schools			
.I23	Land grants			
.I24	Subsidies			
.I3	Local support			
	Taxation	Bonds	Endowment	Nonresident tuition
	336.28 Taxation			See also



- 379.14 School laws and regulations      School age  
           Divided like 940-999
- .15 School supervision and control: national, state  
       and local      Centralization
- .151      National
- .152      State: department, inspectors, etc.
- .153      Local: superintendent, school committee, board  
           Supplies, free textbooks, etc.      For school meals see 371.716
- .154      Individual: parents and others
- .156      State textbooks
- .16 Public colleges and universities: national, state  
       and local  
           Only discussion here; for individual colleges see 378.4-.9
- .17 Secondary schools  
       Discussion. For individual schools see 379.4-.9
- .171      Highschools      Academies  
           6 year highschools
- .172      Grammar schools
- .173      Rural schools
- .175      Central plan      Conveying pupils
- .18 Primary schools      Kindergartens  
           Questions of public maintenance. For individual schools see 372.9
- .19 Evening schools  
       See also 374.8
- .2 Illiteracy      Instruction of illiterates
- .21 Illiteracy and crime      Education and crime  
       Criminal illiterates
- .22 Illiteracy and pauperism      Indigent illiterates  
       See also 339 Pauperism; 362.5 Pauper asylums
- .23 Compulsory education  
       See also 371.52 Truancy
- .24
- .3 Public vs private and endowd schools
- .4-9 Special countries, sections, cities, etc  
       Subdivided like 940-999: e.g. 379.73 Reports of U.S. commissioner  
       of education; 379.744 Education in Massachusetts; 379.7471 in New  
       York city. Keep state departments separate from city and other local  
       systems by numbering state reports, A1-A8, using A9 followed by  
       author's initial (lower case) for history of schools of any state; e.g.  
       Fitch's *New York public schools* 379.747 A9f

## 380 Commerce Communication

The technical side of these questions goes mostly in 650 Useful arts. Here belong discussions of social and political relations; e. g. government control of railroads, telegraphs, etc.

- 381 Domestic trade
- 382 Foren trade Consular reports
- 383 Postoffis *P.O. Reports, stamp books, as cat.*  
See also 353.4 U. S. administration
- 384 Telegraf Cable Telephone  
See also 621.38 and 654
- 385 Railroad and express  
See also 656 Railroading
- 386 Canal and highway transportation  
See also useful arts, 656 Transportation
- 387 River and ocean transportation  
See also useful arts, 656 Transportation
- 388 City transit  
See also engineering 625
- 389 Weights and mesures Metrology  
See also 658 Business manuals

# 390 Customs Costumes Popular life

These heads are for discussions by topic. Customs, etc. of any special country go in 913-919. Books on a special topic in a special country go here, as the grouping by topics is the more important; e. g. Marriage in Japan is 392.5, but Japanese customs, 915.2. For customs of primitiv man, see 571

## 391 Costume and care of person

See also 646 Clothing; 613.4 Hygiene

- .1 Costumes of men
- .2 " " women
- .3 " " children
- .4 Extremities: hats, gloves, sandals, shoes, stockings, etc.
- .5 Hair dressing Barbers  
See also 646.7 Toilet
- .6 Care of person Bathing Toilet
- .7 Ornaments and jewelry
- .8

## 392 Birth, home, and sex customs

- .1 Birth customs: christening, circumcision
- .2 Sacrifice and exposure  
See also ethics, 173.4 Infanticide
- .3 Family and home relations
- .4 Betrothal
- .5 Marriage
- .6 Sex relations Concubinage

## 393 Treatment of the dead

See also 614.6 Public helth

- .1 Earth burial  
See also 719 Cemeteries
- .2 Cremation
- .3 Embalming, mummies
- .4 Exposure
- .9 Special funeral customs: wake, suttee

## 394 Public and social customs

- .1 Eating, banquets
- .2 Shows and diversions
- .3 Games Dances, etc.
- .4 Ceremonies
- .5 Processions
- .6 Fairs
- .7 Chivalry Tournaments
- .8 Dueling Suicide

See also 179.7 Ethics; law, 340.3 Trial by ordeal

*cr - ... of the holidays  
max - ...*

- 395 **Etiquet**  
Codes of social procedure and behavior. For social ethics see 177
- 396 **Woman's position and treatment** *women in general*  
For costumes, see 391.2; biography, 920.7  
If a special library about women is wisht, 396 is the best place for it. Suffrage, education, and employment can then be put here, with references from 324.3, 376, 331.4, etc. but it would be unwise to bring everything about women here, e. g. to remove 618, Diseases of women, from the rest of medicin. Books on woman in general go in 396
- .1 **Emancipation**
- .2 **Legal status, property, rights, etc.**
- .3 **Political status**  
See 324.3, Suffrage; 329.83, Woman suffrage party
- .4 **Education**  
See also 376, Education of women
- .5 **Employment**  
See 331.4, Labor of women; 371.18, Teachers  
Divided like the general classification; e. g. woman as scientist, 396.55; woman's exchange, 396.56; woman as painter, 396.575; woman as author, 396.58, etc.
- .6 **Woman in home**
- .7 **Delineation of woman in art**
- .8 **Delineation of woman in literature**
- .9 **Woman in history, politics, war** **Amazons**
- 397 **Gypsies Nomads Outcast races**  
People without nationalities who do not coalesce with the ruling people among whom they live. This includes Gipsy language, which has no place in the linguistic groups of 400, as the Gipsy people have no place in the geografic divisions of history
- 398 **Folklore Proverbs, etc.**  
See also 291-3 Mythology  
This section is for material needed in studying Folklore. Mere stories for children, unless having a value to students of folklore, go in 823, or in J, if there is a Juvenil collection
- .1 **Primitiv traditions**
- .2 **Legends, tales, traditions**
- .3 **Folklore, traditional beliefs and customs, popular superstitions**
- .4 **Fairies, elvs, ogers, monsters, etc.**  
Bogies, gnomes, dragons, vampires, werewolvs
- .5 **Chapbooks**
- .6 **Riddles**
- .7 **Dream books**
- .8 **Song books**  
Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folklore, etc.
- .9 **Proverbs**
- 399 **Customs of war** *war dance*  
Weapons War dances Treatment of captivs Scalping Mutilation Burning Cannibalism See also 623.4 Firearms

# Philology

## 400 Philology in general

In philology the general works put under 400-419 deal almost entirely with the Indo-European languages. They are put here because they cover most of the divisions of this class, and in practis are most convenient here. Under 439, 479 and 489 are placed books limited to the Teutonic, Romance, or Hellenic groups, and under 491 are placed only such general works as are specifically limited to the Indo-European group

- 401 Philology Origin of language
- 402 Compendis, outlines
- 403 Dictionaries, cyclopedias
- 404 Essays, lectures, addresses
- 405 Periodicals
- 406 Societies, transactions, etc.
- 407 Education, teaching languages
- 408 Polygraphy Collections
  - .9 Universal language
  - .91 Volapük
- 409 History of language

## 410 Comparativ

410-419 includes *comparativ* works in *general* and also those on the Indo-European group in general, but general *and comparativ* works on Teutonic group are 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language

- 411 Orthography Orthoepy Alfabetis
- 412 Etymology, derivation
- 413 Dictionaries, lexicography
- 414 Phonology Visible speech
- 415 Grammar, morphology, syntax
- 416 Prosody
- 417 Inscriptions Paleography
  - See 421.7, 471.7, 481.7, etc. Rare early mss are put in c91
- 418 Texts
- 419 Hieroglyphics
  - See also 493.1
  - .1 Sign language
    - For def mute alfabetis, see 371.912

## 420 English philology

.1 Philosophy .2 Compendis .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .8 Collectiv works .9 History of the language

## 421 Orthografy

See also this hed treated in general grammars placed under 425

### .1 Alfabet

For def mute alfabetis, see 371.912

### .2 Vowels Diftongs Aspirates

### .3 Consonants

### .4 Phonetic spelling Spelling reform

### .5 Orthoepey

### .6 Accent

### .7 Paleografy Inscriptiions

### .8 Abbreviations

For stenografic and other uncommon contractions and abbreviations, see 653 Shorthand

### .9 Punctuation

## 422 Etymology Derivation

422 is limited to derivation. For inflection, also called etymology, see 425.1

### .1 Origin and laws of language

### .2 Prefixes Suffixes

### .3 Reduplication

### .4 Foren elements

### .5 Noun forms: case, number, diminutivs

### .6 Adjectival forms Degrees of comparison

### .7 Pronominal forms: personal, possessiv, relativ, etc.

### .8 Verbal forms: moods, tense, voice, etc.

### .9 Particles: adverbs, prepositions, etc.

## 423 Dictionaries Idioms

.1 Idioms .2 English .3 German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin, 473.4. If in several languages, put with 413, or with least known. Put French-French dictionaries 443, not 443.4, so that the standard home dictionaries shall come first in each language. This plan brings together under each of the less known, all the dictionaries for translating either into or from that language. Some prefer to put each dictionary under the first language; i. e. that by which it is alfabeted. This gives under *each* language, regardless of its familiarity, *all* dictionaries for translating *from* it, but none for translating *into* it. These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best; but in an English library, the first plan, with only English dictionaries in 423, and both *in* and *out* dictionaries together under little known tungs is more convenient. References in either case show what may be found in the other place

## 424 Synonyms Homonyms

## 425 Grammar

425 includes general works, covering also orthography and prosody

- .1 Morphology      Inflection      Divided .5 Nouns, etc. See 422
- .2 Syntax
- .3 Arrangement of words and clauses
- .4 Particular sentences: conditional, hypothetic, etc.
- .5 Nouns
- .6 Adjectives      Articles
- .7 Pronouns
- .8 Verbs
- .9 Particles

## 426 Prosody

See also the head Prosody, in general grammars 425

- .1 Quantity and accent
- .2 Versification
- .3 Feet
- .4 Figures of prosody
- .5 Meters
- .6 Rimes
- .7 Strophe and antistrophe
- .8 Textbooks for writing verse
- .9

## 427 Dialects Early forms of language Slang

Subdivided by geographic divisions like 942. The Yorkshire dialect is 427.74; Gloucestershire dialect 427.41. The dialects of other languages take the geographic subdivisions of their countries. Dialects not provided for in these heads are placed with the last; e. g. American and Scotch with 427.9. The division by time is made with a 5th figure after 0; the earliest form of the language is markt .01; .09 is used for modern slang, e. g. 427.01 Old English

## 428 School books Texts for learning the language

Including only books for *learning* the language, with grammatic or philologic notes, etc. For other works see the literature of the language, 820

- .1 Spelling books
- .2 First lessons      Elementary composition      For Rhetoric see 808.  
Including in other languages books like Fasquelle, Ollendorff, Latin prose, etc.  
See also 372.6, Elementary grammars
- .3 Errors of speech      Vulgarisms      Use of words  
See 427.09 Slang; 424 Synonyms
- .6 Elementary readers      See also 372.4 Education
- .7 Selections
- .8 Texts of individual authors
- .9 Examination papers

## 429 Anglo-Saxon

The above subdivisions of English are used for all other languages and for 410, Comparativ philology

All languages are subdivided like 420 English

**430 German**

437.01 Old High German; 437.02 Middle High German

**439 Minor Teutonic**

Including general works on Teutonic group

**.1 Low German**

**.2 Frisian Old Saxon**

**.3 Dutch Flemish**

**.4 Plattdeutsch**

**.5 Scandinavian**

**.6 Old Norse Icelandic Faroese**

**.7 Swedish**

**.8 Danish Norwegian**

**.9 Gothic**

**440 French**

**449 Provençal**

Old French, as the earliest form of the language, is 447.01

**450 Italian**

**459 Wallachian**

**.9 Rumansh**

**460 Spanish**

**469 Portuguese**

**470 Latin**

**479 Minor Italic Medieval Latin**

Including general works on Romance group

**480 Greek**

Divided 487, Greek dialects, like 930; e. g. 487.2 Alexandrian Greek; 487.3 New Testament Greek; 487.81 Macedonian; 487.923 Ionic, etc.

**489 Minor Hellenic Modern Greek**

Including general works on Hellenic group

Works on Latin and Greek together, unless very clearly most useful in the Latin, go with the Greek, which here as well as elsewhere is made to include general works on the ancient classics



# 490 Minor languages

Each language subdivided if wisht like 420 English

## 491 Minor Indo-European

Besides Teutonic, 420-439; Italic, 440-479; and Hellenic, 480-489

This hed, 491, includes general works on the Indo-European tungs, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400-419 is really Indo-European; but see also 410

- .1 **Indic**
- .2 **Sanskrit**
- .27 Sanskrit dialects Prakrit
- .3 **Pali**
- .4 **Modern East Indian languages**
  - Excluding Dravidian, which is 494
  - .41 Sindi
  - .42 Panjabi
  - .43 Hindustani Hindi
  - .44 Bengali
  - .45 Uriya Orissa
  - .46 Marathi
  - .47 Gujerati
  - .48 'Singhalese
  - .49
- .5 **Iranic**
- .51 Old Persian
- .52 Zend (Avestan) Old Bactrian
- .53 Pehlevi (Huzwaresh)
- .54 Armenian
- .55 Modern Persian
- .56 Ossetic
- .57 Kurdish
- .58 Afghani
- .59
- .6 **Keltic**
- .61 Gadhelic group
- .62 Irish
- .63 Gaelic or Scotch
- .64 Manx
- .65 Cymric group
- .66 Welsh or Cymric
- .67 Cornish
- .68 Armorican or Bas Breton
- .69 **Basque**
- .7 **Russian**
- .79 Ruthenian

491.8

Other Slavonic

    Southeast Slavonic group

- .81 Bulgarian (Church Slavonic)
- .82 Servian
- .83 Kroatian
- .84 Slovenian
  - West Slavonic group
- .85 Polish
- .86 Bohemian
- .87 Moravian Slovakian
- .88 Sorbian
- .89 Polabian

.9 Lettic

- .91 Old Prussian
- .92 Lithuanian
- .93 Lettish (Livonian)

492

Semitic

    Northern group

- .1 Aramaic
- .19 Babylon and Nineveh cuneiform
- .2 Chaldee
- .3 Syriac (Peshito)

    Central group

- .4 Hebrew
- .5 Samaritan
- .6 Phenician (Carthaginian)

    Southern group

- .7 Arabic
- .8 Ethiopic (Amharic)
- .9 Himyaritic

493

Hamitic

- .1 Old Egyptian
  - See 419 Hieroglyphics
- .2 Coptic

494

Scythian Ural-Altaic Turanian

    Dravidian Tamil Finnish Turkish

495

Eastern Asiatic Chinese

496

African

    Excluding 493 Hamitic, 492.8 Ethiopic, etc. included in families above

497

North American

498

South American

499

Malay-Polynesian and other

    The Gipsy language is not assignd to any group, but is placed for convenience with 397 Gipsies

# Natural Science

## 500 Science in general

501-509 all have *Science in general* as their subject, but it is treated in these various forms. A periodical on *Chemistry* goes with 540.5, not 505, which is only for periodicals on Science in general. 0 in any class number in any part of the classification shows the subject to be general, not specific

- 501 Philosophy, theories, utility, etc.
- 502 Compendis, outlines Ancient and medieval science
- 503 Dictionaries, cyclopedias, etc.
- 504 Essays, lectures, addresses
- 505 Periodicals, scientific magazines
- 506 Societies: transactions, etc.
- 507 Education, methods of teaching and study
- Museums: *Bulletins, Catalogues, etc.*
- 508 Polygraphy: collected works, extracts, etc.
  - .1 Extracts .2 .3 General scientific travels .4—9 Travels and surveys (if general) divided geograficly like 940-999
- 509 History of science

## 510 Mathematics

Works on *Mathematics in general* not limited to any one or two sections, are groupd by form of treatment like Science in general above; *i. e.* into Mathematical

510.1 Philosophy .2 Collections, compends .3 Dictionaries .4 Essays, papers tracts, letters .5 Periodicals .6 Societies .7 Education .8 Logarithmic and other tables, instruments .9 History

## 511 Arithmetic

See 372.7 Teaching elementary arithmetic

- .1 Systems of arithmetic
  - See also 512.81 Theory of numbers
- .2 Notation and numeration Fundamental rules Abacus
- .3 Prime numbers
- .4 Fractions
- .5 Analysis Permutation and combination
- .6 Proportion and progression
- .61 Magic squares
- .7 Involution and evolution
- .8 Mercantil rules Interest Alligation Mensuration
- Gaging
  - See also 658 Business manuals
- .9 Problems and tables

## 512 Algebra

- .1 Systems of algebra
- .2 Numeric equations      Imaginary expressions
  - .21 Equations, 1st to 4th degrees
  - .22 Higher numeric equations
  - .23 Indeterminate equations      Diophantin analysis
  - .24 Imaginary expressions
- .3 Algebraic equations      Maxima and minima
- .4 Series      Fractions      Binomial theorem      Taylor's theorem
- .5 Combinatory analysis
- .6 Proportion and progression
- .7 Involution and evolution
- .8 Higher algebra
  - .81 Theory of numbers      See 511.1 Systems of arithmetic
  - .82 Theory of equations      Complex variable      See also 517.8
  - .83 Determinants
  - .84 Symmetric functions
  - .85 Elimination: eliminants and discriminants
  - .86 Transformations      Substitutions
  - .87 Quantics
  - .88 Invariants      Covariants      Contravariants
  - .89
- .9 Problems and tables

## 513 Geometry

Plane and solid geometry bound together is put 513. Descriptiv geometry is 515.  
See also 744 Mathematic drawing

- .1 Plane geometry
  - .11 Right lines
    - .12 Intersecting lines
    - .13 Parallel lines
    - .14 Triangles
    - .15 Quadrilaterals
    - .16 Other polygons
    - .17 Similarity
    - .18 Areas
    - .19 Maxima and minima
  - .2 Curvs
    - .21 Circles
    - .22 Conic sections
      - .23 Ellipse
      - .24 Hyperbola
      - .25 Parabola
    - .26 Higher plane curvs

**513.3 Volumetric or solid geometry**

- .31 Lines and planes
- .32 Intersecting planes
- .33 Parallel planes
- .34 Polyhedrons
- .35 Pyramids
- .36 Prisms
- .37 Regular

**.4 With curvd surfaces**

- .41 Sphere
- .42 Cone
- .43 Cylinder

**.5 Modern geometry**

- .51 Points Lines Planes Duality
- .52 Transversals
- .53 Cones Conics Involution
- .54 Radical axes and centers of similitude
- .55 Poles and polars Reciprocal polars
- .56 Harmonic and anharmonic properties
- .57 Correspondence Correlation of figures
- .58 Quadric surfaces: spheroconics, curvs of double curvature
- .59 Surfaces of higher order: cubics

.6

.7

**.8 Absolute or non-Euclidean geometry**

**.9 Problems**

**514 Trigonometry**

- .1 Trigonometric functions General formulas See 522.7
- .2 Trigonometric series
- .3 Exponential formulas
- .4 Solution of trigonometric equations
- .5 Plane trigonometry: solution of plane triangles; analytic
- .6 Spheric trigonometry General formulas
- .7 Solution of spheric triangles
- .8 Differences of triangles, plane and spheric
- .9 Problems

# 515 Descriptiv geometry and projections

See also 744 Mathematical drawing

- .1 Orthogonal projection on 2 planes**
- .11 Straight lines Planes
- .12 Single curvd lines
- .13 Double curvd lines
- .14 Single curvd surfaces
- .15 Double curvd surfaces
- .16 Surfaces of revolution
- .17 Warpt surfaces
- .18 Intersections of surfaces
- .2 Isometric and analogous projections**
- .3 Oblique projection**
- .4 Conic projection**
- .5 Spheric projection** See 526.8 Map projection
- .51 Orthografic
- .52 Globular
- .53 Stereografic
- .54 Polar
- .55 Gnomonic
- .56 Conic
- .57 Cylindric
- .6 Perspectiv** See also 742 Drawing
- .61 Plane Parallel Oblique Angular  
See also Scene painting
- .62 Cylindric  
See also Panorama painting
- .63 Shadows; natural and artificial light
- .64 Reflections
- .65 Circles, cylinders and spheres
- .66 Distortions and corrections
- .67 Human figure
- .68 New methods Special devices
- .7 Shades and shadows**
- .8 Stereotomy**
- .81 Stonecutting See also 693.12 Masonry; 730 Sculpture
- .82 Carpentry See also 694 Bilding
- .83 Stairbilding See also 694.8 Bilding; 729.39 Architectural design

- .1 **Plane loci**
- .11 Right lines
- .12
- .13
- .14 Transformation of coordinates
- .2 **Curvs**
- .21
- .22 Conic sections
- .23 Ellipse
- .24 Hyperbola
- .25 Parabola
- .26 Higher plane curvs
- .3 **Loci in space**
- .31 Right lines
- .32 Planes
- .33
- .34 Transformation of coordinates
- .4 **Curvd surfaces**
- .41
- .42 Conicoids or quadric surfaces
- .43 Ellipsoid
- .44 Hyperboloid
- .45 Paraboloid
- .46 Surfaces of higher order
- .5 **Modern analytic geometry**
- .51 Systems of coordinates
- .52 Abridgd notation
- .53 Conics
- .54 Higher plane curvs
- .55 Poles and polars Reciprocal polars
- .56 Harmonic and anharmonic properties
- .57 Method of projection
- .58 Quadric surfaces: spheroconics, curvs of double curvatures
- .59 Surfaces of higher order: cubics
- .6
- .7
- .8 **Quaternions: calculus of direction and position**
- .9 **Problems**

## 517 Calculus

- .1 **Infinitesimal Method of exhaustions**  
Differential and Integral calculus, *bound together*, is put here
- .2 **Differential**
  - .21 Series
  - .22 Indeterminate forms
  - .23 Change of the independent variable
  - .24 Theory of plane curvs      *Curv tracing*
  - .25
  - .26 Theory of curvd surfaces
  - .27 Maxima and minima
  - .28
  - .29 Problems
- .3 **Integral**
  - .31 Formulas of reduction and integration
  - .32 Definit integrals      Eulerian integrals
  - .33 Rectification      Quadrature      Cubature
  - .34 Multiple integrals
  - .35 Laplace's functions      Bessel's and allied functions
  - .36 Elliptic and hyperelliptic functions      Abelian functions
  - .37
  - .38 Differential and partial differential equations
  - .39 Problems and tables
- .4 **Of variations**
- .5 **Of functions**
- .6 **Of finite differences**
- .7 **Of operations**
- .8 **Of imaginaries      Complex variables**      See also 512.82
- .9 **Problems**

## 519 Probabilities

- .1 **General principles      Direct and inverse probabilities**
- .2 **Mathematical and moral expectation**
- .3 **Testimony: decisions of juries and tribunals**
- .4 **Probability of future events deduced from experience**
- .5 **Life contingencies: annuities, life insurance**      See 368.3
- .6 **Errors of observation      Mean or average values**
- .7
- .8 **Method of least squares**
- .9 **Problems**



# 520 Astronomy

520 Astrology, see 133.5    520.2 Compendis    520.3 Dictionaries    520.4 Essays  
520.5 Periodicals    520.6 Societies    520.7 Study and teaching of astronomy  
520.8 Collections, etc.    520.9 History of astronomy  
See also note under Natural science in general, 500-509

## 521 Theoretic astronomy

Mathematical investigation of celestial motions, specially of the Solar system.  
Motions of individual bodies are classed under separate heads in 523

### .1 Celestial dynamics

- .11 General laws of equilibrium and motion    See also 531.2
- .12 Law of universal gravitation and motion relativ to the sun  
    See also 531.51
- .13 Problem of 3 bodies
- .14 Figures of heavenly bodies
- .15 Rotation of heavenly bodies

### .2 Geocentric and heliocentric place

- .21 Plane of orbit in space
- .22 Position of orbit in its plane
- .23 Position of body in its orbit
- .24 Position of body in space
- .25 Heliocentric longitude and latitude
- .26 Geocentric longitude and latitude
- .27 Variations of right ascension and declination
- .28 Variations of longitude and latitude
- .29

### .3 Orbits

- .31 Definitions of orbits
- .32 Determination from 3 observations
- .33 Determination from 4 observations
- .34 Variation of elements of orbit
- .35 Correction of approximate elements of orbit
- .36 Application of method of least squares
- .37 Kepler's problem
- .38 Equation of center and radius vector
- .39

### .4 Perturbations

- .41 Mutual action of planets
- .42 Action of satellites
- .43 Nonsphericity of planets
- .44 Resisting medium

### .5 Theory of planets

### .6 Theory of satellites

### .7 Theory of comets

### .8 Theory of eclipses

### .9 Precession and nutation    See also 522.95-6

- .1 Observatories**
- .11 General plan, location
- .12 Material and mechanism of dome, drum, etc.
- .13 Transit bildings, wings, etc.
- .14 High altitude observatories
- .15 Portable
- .16
- .17
- .18
- .19 History, reports and serial publications of observatories
- .2 Telescopes** See also 535.83 Optics
- .21 Reflecting
- .22 Refracting
- .23 Eye piece and accessories
- .24 Object glass
- .25 Mounting, tube, etc.
- .26 Equatorial mounting
- .27 Transit mounting
- .28 Observing chairs, etc.
- .29 Famous telescopes
- .3 Meridional instruments**
- .31 Finding meridian line
- .32 Mural circles
- .33 Meridian circles
- .34 Transit: placing in position
  - .35 Collimation constant
  - .36 Level constant
  - .37 Azimuth constant
  - .38 Other constants, flexure, index error, etc.
  - .39
- .4 Extra meridional instruments**
- .41 Sextant and quadrant, reflecting circle, astrolabe
- .42 Altazimuth
- .43 Zenith telescope
- .44 Transit out of meridian
- .45 Heliameter
- .46 Equatorial
- .47 Prime vertical
- .48
- .49

**522.5****Auxiliary instruments**

- .51 Sidereal clock and chronometer
- .52 Electrochronograf
- .53 Micrometers
- .54 Personal equation machine    See 522.97
- .55 For illumination
- .56 For solar observation
- .57 Artificial horizons
- .58 Heliostat

.59

**.6 Auxiliary observations**

- .61
- .62 Photometry    See 535.2 Optics
- .63 Photography    See 535.85 Optics; 770 Fotografy
- .64
- .65 Polarization    See 535.5 Optics
- .66
- .67 Spectroscopy    See 535.84

.68

.69

**.7 Spheric astronomy**    See also 514.6

- .71 Celestial sphere    Spheric coordinates
- .72 Rectangular coordinates
- .73 Transformation of coordinates
- .74 Differential variations of coordinates
- .75 Interpolation
- .76 Meridian line    Variation of compass
- .77 Reduction of observations to the meridian
- .78 Use of globes

.79

**.9 Corrections**

- .91 Parallax
- .92 Refraction    See 535.3 Optics
- .93 Semidiameter of celestial bodies
- .94 Aberration
- .95 Precession    See 521.9
- .96 Nutation    " "
- .97 Personal equation    See 522.54
- .98 Instrumental errors

.99

**.1****Universe**

- .11 Structure of universe
- .12 Nebular hypothesis
- .13 Plurality of worlds
- .14 Space and its temperature
- .15 Resisting medium
- .16 Cosmic dust
- .17 Repulsiv force

**.2****Solar system**

- .21 Distributiv laws of planets
- .22
- .23 Conjunctions and oppositions
- .24 Motion of solar system in space
- .25 Constitution of planetary system
- .26 Stability of solar system Ecliptic
- .27
- .28 Orrery, planetarium, gyroscope, etc. See 531.34 Rotation
- .29 Zodiac

**.3****Moon**

- .31 Constants: size, mass Distance and parallax
- .32 Heat and light Phases
- .33 Orbit and motions  
Sidereal month, tropical, perigee and apogee, sun and earth's attraction, librations See also 521.6 for Orbit
- .34 Features of surface: mountains, plains, etc.
- .35 Atmosphere
- .36 Physical condition
- .37 Spectrum
- .38 Eclipses
- .39 Charts, photografs, etc.

**.4****Planets**

- .41 Mercury and intramercurial
- .42 Venus
- .43 Mars
- .44 Asteroids
- .45 Jupiter
- .46 Saturn
- .47 Uranus
- .48 Neptune and transneptunian
- .49 Charts, photografs, etc.

- 523.5 Meteors and zodiacal light**
- .51 Aerolites
  - .52 Fireballs
  - .53 Meteoric showers, radiant points, etc.
  - .54 Systems of meteors
  - .55
  - .56 Connection of comets and meteors
  - .57 Spectrum
  - .58 Height of atmosphere from observation
  - .59 Zodiacal light Aurora (borealis and australis)
  - .6 Comets**
  - .61 Appearance and development
  - .62
  - .63 Orbits
  - .64 Remarkable comets
  - .65
  - .66 Physical constitution
  - .67 Spectrum
  - .68
  - .69 Charts, photographs, etc.
  - .7 Sun**
  - .71 Constants, dimensions
  - .72 Heat and light: theories as to source
  - .73 Apparent motion Rotation See 525.38 Tables
  - .74 Spots, faculae, and other features of surface
  - .75 Prominences, chromosphere, corona
  - .76 Theories of physical constitution
  - .77 Spectrum
  - .78 Eclipses
  - .79 Charts, photographs, etc.
  - .8 Stars**
  - .81 Stellar parallax, distance
  - .82 Heat and light Photometric observations Magnitude  
[Visibility]
  - .83 Proper motion, stardrift
  - .84 Variable, double, and multiple stars
  - .85 Clusters and nebulas
  - .86 Physical constitution
  - .87 Spectrum
  - .88
  - .89 Constellations, maps, etc.
  - .9 Transits and occultations**
  - .91 Transits of Mercury

- 523.92      Transits of Venus and solar parallax
- .93      Delisle's method
- .94      Halley's method
- .95      Photografic method
- .96      Transits of Venus to 1874
- .97      Transit of 1882
- .98
- .99      Occultations

[524

## Maps, observations, and tables

Series of observatory publications may be kept together under 514, or under 522.91 with the history and reports of the observatory. Special maps or observations, e. g. on Sun or Moon, are better placed in subsections 9 *under these heads*, with charts and photografs, e. g. 523.79, thus leaving these bracketed numbers 524 to 524.9 blank. They are printed to provide a place in case it is wisht to keep *all* maps and observations together

- .3      **Of moon**      See also 523.39
- .4      **Of planets**      See also 523.49
- .5
- .6      **Of comets**      See also 523.69
- .7      **Of sun**      See also 523.79
- .8      **Star catalogs**      See also 523.89]

525

## Earth

- .1      **Constants**
- .11      Mass      Weight
- .12      Density
- .13      Dimensions, diameter
- .14      Figure: geomorfy, equatorial belt
- .15      Distance from sun
- .16      Parallax
- .2      **Heat      Light**
- .3      **Orbits and motions**
- .31      Period of revolution
- .32      Obliquity of ecliptic to equator
- .33      Eccentricity
- .34      Perturbations
- .35      Rotation
- .36      Foucault's pendulum
- .37      Deviation of falling bodies and projectils
- .38      Tables of the sun      Apparent motion      See 523.73 Sun
- .4      **Geografic coordinates**
- .41      Finding latitude      See also 527.1
- .42      By meridian altitudes
- .43      By Pole star
- .44      By altitude of 2 or more stars
- .45      By other methods
- .46      Finding longitude      See also 527.2
- .47      Terrestrial means: chronometers, telegraf, signals
- .48      Celestial signals: eclipses, occultations, transits
- .49      Lunar methods

525.5

**Seasons**

- .51 Effect of inclination of equator to ecliptic
- .52 Effect of eccentricity of earth's orbit
- .53 Secular changes of seasons
- .54 Seasons on Mars and other planets

**.6 Tides**

- .61 Mathematical theory
- .62 Effect of sun and moon in producing tides
- .63 Distribution, diurnal inequality, spring and neap, priming and lagging
- .64 Establishment of a port Coast form modification
- .65 Velocity of hight of tide wave
- .66 Tides on inland seas
- .67 Supposed effect in retarding Earth's revolution
- .68 Tide registering and predicting machines
- .69 Tide tables

**.7 Twilight**

526 **Geodesy**

**.1 Theory and determination of Earth's figure**

- .11 Potentials of ellipsoids
- .12 Equilibrium of rotating spheroid
- .13 Law of ellipticity
- .14 Airy's and Pratt's theories as to attraction of mountains
- .15 Determination of figure by Airy, by Bessel, and by Clarke
- .16 Ellipsoidal figure and position of axes
- .17 Geoidal figure

**.2 Base mesuring and apparatus**

- .21 Standards of length and temperature
- .22 Apparatus of Struve, Bessel, Colby, U. S. coast survey, U. S. lake survey, etc.
- .23 Adjustments of apparatus
- .24 Location of base line
- .25 Field operations
- .26 Calculation of results and corrections
- .27 Verification

**.3 Field work of triangulation**

- .31 Reconnaissance
- .32 Stations
  - \* Names, signals, tripods, scaffolds and towers, surface and underground monuments
- .33 Observations, instruments and records
- .34 Reduction to station's center
- .35 Corrections for phase of signal and eccentricity
- .36 Spirit leveling
- .37 Barometric leveling
- .38 Trigonometric leveling

} These are methods. See 551.53, for results, lists of hights, etc.

.39

- 526.4 Computation of triangulation**
  - .41 Spheric excess
  - .42 Legendre's theorem
  - .43 Chord process
  - .44 By spheric trigonometry
  - .45 By spheroidal trigonometry
    - See also application of least squares, 522.6
  - .46 L M Z formulas and applications**
    - .47 Direct deduction by Bessel
    - .48 Deduction by Puissant
    - .49 Tables for computation
  - .5 Theory of least squares in adjustment of figures, etc.**
    - .51 Method of independent angles
    - .52 Adjustment of a quadrilateral
    - .53 Adjustment of triangulation net
    - .54 Method of directions
    - .55 Adjustment for closure of a circuit
    - .56 Method of repetitions
    - .57 Adjustments of base mesures
    - .58 Adjustments of leveling
  - .6 Astronomic determinations and their connection with geodetic results**
    - .61 Latitude determinations
    - .62 Longitude determinations
    - .63 Azimuth determinations
    - .64 Effect of irregularities of Earth's surface on latitude, longitude and azimuth
    - .65 Effect of same on angles of triangle
  - .7 Gravity experiments and results**
    - .71 Mathematical theory
    - .72 Pendulum apparatus
    - .73 Pendulum operations
    - .74 Corrections
    - .75 Reduction of results
  - .8 Map projections** See 515.5 Spheric projections
    - .81 Prospectiv projections
    - .82 Orthomorphic projections
    - .83 Development projections
    - .84 Zenithal projections
    - .85 Equivalent projections



- 526.9 **Surveying**
- .91 Instruments and methods See 526.2
  - .92 Measurement of distances
  - .93 Measurement of angles
  - .94 Measurement of heights
  - .95 Leveling See 526.36-38
  - .96 Plotting
  - .97 Computation of areas
  - .98 Topographic drawing
  - .99 For special purposes: military, naval, railroad, mining, etc

527 **Navigation**

- .1 Finding latitude at sea See also 525.41
- .2 Finding longitude at sea See also 525.46
- .3 Finding time at sea See also 529.74
- .4 Sumner's method
- .5 Great circle sailing

528 **Ephemerides**

*nautical almanacs.*

- .1 American
- .2 English
- .3 German
- .4 French
- .5 Italian
- .6 Spanish
- .7 Slavic
- .8 Scandinavian
- .9 Construction of ephemeris

529 **Chronology**

*history of the calendar.*

- .1 Sidereal and solar day  
Apparent and mean time, equation of time, causes of inequality
- .2 Solar year, months
- .3 Calendars; including early and Oriental
- .4 Calendar of Julius Caesar
- .5 Calendar of Gregory
- .6 Ecclesiastic calendar: determination  
For feasts, etc. and calendars themselves, see 264.021, 264.031, etc.

.7 **Horology**

- .71 Finding time by transit
- .72 Finding by equal altitudes
- .73 Finding by single altitude
- .74 Finding by sextant See also 527.3
- .75 Time systems, and standards
- .76 Distribution of time
- .77 Cosmic time
- .78 Instruments for measuring: dials, hourglasses, clocks, watches, etc.

See 522.51 for Sidereal clocks and chronometers  
See 681 for Clock and watch making

# 530 Physics

*electricity - laws of light*

Like Science in general: viz, general works only are arranged

530.1 Philosophy .2 Compendis .3 Dictionaries .4 Essays, lectures, etc. .5 Periodicals .6 Societies .7 Education, methods of teaching, experiments .8 Physical units, measuring instruments .9 History

## 531

### Mechanics

*theory of levers - not the application  
go under 600*

- .1 **Pure motion Kinematics**
- .2 **Statics Graphic statics**
- .21 Force and its measure
- .22 Composition of forces and motions
- .23 Moments
- .24 Parallel forces Center of gravity
- .3 **Dynamics Kinetics**
- .31 Rectilinear motion
- .32 Vibration
- .33 Undulation
- .34 Rotation
- .35 Centrifugal and centripetal force
- .4 **Work Friction** See 621.89 Lubrication
- .41 Unit of work
- .42 Diagram of work
- .43 Laws of friction Modulus of machines
- .44 Sliding friction
- .45 Rolling friction
- .5 **Gravity**
- .51 Law of universal gravitation
- .52 Laws of falling bodies
- .53 Pendulum
- .54 Mass, density, etc.
- .55 Projectils
- .56
- .57
- .58 Apparatus for illustration
- .6 **Conservation of energy**
- .7
- .8 **Machines Transmission of force**
- .81 Lever and balance
- .82 Wheel and axle
- .83 Cord and catenary
- .84 Pulley
- .85 Inclined plane
- .86 Wedge
- .87 Screw
- .88
- .9 **Tables Problems Questions**

## Liquids Hydrostatics Hydraulics

- .1 Properties of liquids Pressure
- .2 Equilibrium of liquids
- .3 Buoyant effects Floating bodies
- .4 Specific gravity Hydrometer
- .5 Liquids in motion
- .51 Theoretic flow
- .52 Orifises, adjutages, fluid vein
- .53 Weirs, overfalls
- .54 Pipes, open channels, rivers
- .55 Bends, valves, sudden enlargements and contractions
- .56 Efflux; variable pressure
- .57 Hydrometry Velocity
- .58 Impulse and resistance
- .59 Theory of waves
- .6 Capillary attraction
- .7 Osmose Absorption
- .8 Applications Machines See 621.2 Water engines
- Except for libraries making Physics much more prominent than Useful arts, all the 'Applications' will be more useful under their proper heds in Useful arts. It is better to keep all the material in one place, referring to it from the other, rather than attempt division
- .81 Hydraulic press See also 621.266
- .82 Hydraulic engin See also 621.25
- .83 Water ram See also 621.27
- .84 Water wheels See also 621.21
- .85 Water blast See also 621.269
- .9 Tables Problems Questions

## Gases Pneumatics

- .1 Properties of gases and vapors Adsorption
- .2 Laws of compressibility *fluid air*
- .3 Atmosphere
- .4 Barometer
- .5 Air pump
- .6 Aeronautics *see instead 629.13*
- .7 Kinetic theory of gases
- .8 Applications See 621.6 Blowing and pumping engines
- Preferably clast in Useful arts, see 532.8, note
- .82 Manometer Pressure gages See 621.18 Steam generation
- .83 Condensing pump
- .84 Force pump
- .85 Suction pump
- .86 Diving bell
- .87 Forge bellows
- .88 Pneumatic dispatch
- .9 Tables Problems Questions

534 Sound Acoustics *Heaviside's (musical acoustics)*

- .1 Theory Undulations
- .2 Propagation of sound: velocity, diffraction
- .3 Musical sound Tuning forks See also 781.1 Theory of music
- .4 Analysis of sounds Resonators
- .5 Superposition of vibrations
- .6 Graphic representations
- .7 Physiologic: ear and larynx  
See also 611.85 Anatomy; 612.85 Physiology; 612.78 Voice; 617.8 Surgery; 362.1 and .4 Hospitals; 152.2 Psychology
- .8 Applications Preferably class with topics elsewhere See 532.8, note
- .81
- .82
- .83 Signals in navigation See also 654.9 Communication
- .84 Applications to architecture
- .85 Musical instruments See also 780 Music
- .86 Phonograf
- .9 Tables Problems Questions

535 Light Optics

- .1 Theory
- .2 Propagation Velocity Measurement of light
- .3 Reflection Refraction Absorption  
See also 522.92 Astronomy
- .4 Dispersion Diffraction Interference
- .5 Polarization Polariscope Double refraction
- .6 Color
- .7 Physiologic: eye  
See also 611.84 Anatomy; 612.84 Physiology; 617.7 Surgery; 362.1 and .4 Hospitals; 152.1 Psychology
- .8 Applications Preferably class with topics elsewhere. See 532.8, note
- .81 Lenses
- .82 Microscopes and magnifiers See also 578 Microscopy
- .83 Telescopes See also 522.2 Astronomy
- .84 Spectroscopes and spectrum analysis  
See also 544.6 Chemistry; 522.67 Astronomy; 523.37 Moon; 523.57 Meteors, etc.
- .85 Photografy See also 770
- .86 Other applications of lenses
- .87 Mirrors and reflecting instruments
- .88 Lighthouses See also 627.9 Harbor engineering; 656 Commerce
- .89
- .9 Tables Problems Questions

## 536 Heat

- .1 Theory Nature
- .2 Communication
- .3 Action of bodies on heat
  - .31 Reflection
  - .32 Refraction
  - .33 Radiation
  - .34 Absorption
  - .35 Diathermancy
- .4 Effects Action of heat on bodies
  - .41 Expansion
  - .42 Liquefaction
  - .43 Solidification
  - .44 Vaporization and condensation
  - .45 Incandescence
  - .46 Combustion Flame
- .5 Temperature See also 551.52 Meteorology; 613.18 Hygiene
  - .51 Thermometry
  - .52 Pyrometry
  - .53 Electric methods of measuring
- .6 Calorimetry
- .7 Thermodynamics Mechanical equivalent
- .8 Applications Preferably go in Useful arts. See 532.8, note
  - .81 Steam engines See 621.1 Engineering
  - .82 Gas engines See 621.43 Engineering
  - .83 Heating See 697, 621.19, 628.8, 644
  - .84 Ventilation See 697, 622.4, 628.8
- .9 Tables Problems Questions

## 537 Electricity *theoretical*

- .1 Theory Nature
- .2 Static
  - .21 Quantity, potential
  - .22 Conduction, distribution
  - .23 Machines
  - .24 Condensers
  - .25 Electrometers
- .3
- .4 Atmospheric Lightning rods
- .5 Dynamic
  - .51 Theory of coils Constants
  - .52 Induction spark
  - .53 Induction spark in rarified gases *radio-activity - X-rays.*
- .6 Electro dynamics
- .7 Electric measurements

- 537.8 Applications** See 621.3. Preferably class in Useful arts. See 532.8, note
- .81 Telegraf See 654
  - .82 Telefone Microfone
  - .83 Dynamos Electric lighting
  - .84 Transmission of power Storage
  - .85 Electrometallurgy
  - .86 Galvanometers Batteries Coils
  - .87 Medicin See also 615.84
  - .88 Electric signals
  - .9 Tables Problems Questions

## 538 Magnetism

For 'Animal magnetism,' Mesmerism, etc., see 134

- .1 Theory Properties of magnets Lines of force
- .2 Communication Induction Touch
- .3 Electromagnetism
- .4 Diamagnetism
- .5
- .6
- .7 Terrestrial magnetism
- .8 Applied Magnetic machines
- .9 Tables Problems Questions

## 539 Molecular physics

- .1 Theory Molecular structure Vortex rings
- .2 Properties of solids
- .3 Elasticity Torsion
- .4 Strength of materials  
See also engineering 620.11
- .5 Permanent displacement of molecules
- .51 Malleability
- .52 Ductility
- .53 Hardness
- .54 Tempering
- .6 Intermolecular forces
- .7
- .8
- .9 Tables Problems Questions

# 540 Chemistry

Pure or theoretic chemistry

- .1 Theories, alchemy, phlogiston .2 Compendis .3 Dictionaries, cyclopedias  
.4 Essays, lectures, etc. .5 Periodicals .6 Societies .7 Education, methods  
of teaching .8 Collectiv works .9 History

## SUMMARY

- 541-542 **General chemistry**  
541 Chemic theories  
542 Operativ and experimental chemistry  
543-545 **Analytic chemistry**  
543 Analysis  
544 Qualitativ analysis  
545 Quantitativ analysis  
546 **Inorganic chemistry**  
547 **Organic chemistry**

## REFERENCES

- |         |                       |     |                   |
|---------|-----------------------|-----|-------------------|
| 612.015 | Physiologic chemistry | 660 | Chemic technology |
| 615     | Medical               | 669 | Metallurgy        |
| 616.076 | Pathologic            | 770 | Photografy        |

# 541 Theoretic chemistry      Physical chemistry

Modern chemic theories      General properties of bodies from chemic point of  
view      Composition      Constitution      Elements and compounds      Affinity  
Formulas      Nomenclature

.1

## .2 Atomic theory

Ultimate constitution of matter. Nature and phases of ultimate particles: atoms, ions, anions, kations, electrons. Atomicity. Relationship of mass to chemic properties of bodies. Laws of chemic combination: weight, definit proportions, equivalence, multiple proportions. Laws of volume for gases. Simple or compound nature of chemic elements. Molecules. Atomic and molecular weights; methods of determination. Atomic and molecular volumes. Laws fundamental to atomic theory; see also 541.9 Classification, periodic law, etc.

See also physics, 532.4 Specific weights

## .3 Physical chemistry

Borderland between physics and chemistry. Including densities in different phases; chemic affinity, statics and dynamics; thermochemistry and electro-chemistry

### .31 Solid state

See also physics, 536.43 Solidification; 539.2 Properties of solids

### .32 Liquid state

See also physics, 532.1 Properties of liquids; 536.42 Liquefaction; 541.34 solution

### .321 General

Surface tension, vapor tension, viscosity, capillarity

### .325 Special types of liquids: gelatinous liquids

### .326 Inorganic liquids

### .327 Organic liquids

### .33 Gaseous state

Subdivide like 541.32. See also physics, 533.1 Properties of gases; 536.44 Vaporization

- 541.34 Solute state Solubility
- .341 General  
Surface tension, viscosity, diffusion, osmosis, conductivity. See also 532.7 Osmose of liquids; 542.7 Dissolving
- 1 Theories: kinetic, hydrate and dissociation
- 2 Laws Terminology
- .342 Solution pressure Solubility  
Tables of solubility
- .344 Solubility and solution of different forms  
1 Solids 2 Liquids 3 Gases Absorption
- .345 Solution types  
2 Colloid solutions Emulsions  
Including general discussion of colloids
- .346 Solvents
- .35 Photochemistry  
Relation of light to chemic action, of polarized light to chemic structure, etc.
- .36 Thermochemistry  
Relationship of heat to chemic properties of bodies. Thermodynamics and energetics applied to chemistry. Relations between specific heat and chemic constitutions. Molecular heats; atomic heats; latent heats of physical, allotropic, and chemic transformations. Principle of initial and final phases. Study of changes of phase. Melting points and boiling points. Liberation and absorption of heat in reactions. Exothermic and endothermic reactions. Variation with temperature of the quantity of heat used in transformations. Principle of maximum work
- .37 Electrochemistry
- .378 Magnetochemistry
- .38 Radiochemistry  
Chemistry of radioactiv substances
- .39 Chemic dynamics, statics and equilibrium Affinity  
Homogeneous and heterogeneous chemic equilibriums. Kinetic theory of chemic equilibriums (of Guldberg and Waage, Pfaundler, van't Hoff); thermodynamic theory (of Willard Gibbs, of Horstmann, of van't Hoff, of Duhem, etc) Reaction velocities. Accelerating and retarding influences. Catalysis. See also in physics 536.7 Thermodynamics and energetics  
Variation of affinity with physical conditions. Valence. Combinations. Unlimited and limited decomposition. Dissociation, efflorescence, limits of dissociation and maximum dissociation. Combustion
- .4 Various types of compounds
- .5 Molecular types
- .6 Compound radicals  
Stereochemistry Formulas of structure
- .7 Allotropy  
Isomerism Amorphous and crystallin states Tautomerism Polymerism  
Class here material on structure not included in 541.6
- .9 Other general subjects  
Classification Nomenclature Notation Formulas Stoichiometry  
Tables Periodic law



# 542 Practical and experimental chemistry

- Manipulations    Chemic operations    For analyses see 543-545
- .1 Laboratories**
  - Interior construction and installation    General arrangements    For architecture see 727.5
- .2 Apparatus and manipulations**    For special apparatus see 542.3-.7
- .21 Manipulations**    Arrangements    Procedure
- .22 Preparation of substances**
  - Mechanic separation: trituration, pulverization, porphyzation; mortars and pestles, crushers, sifting and sivs. Disintegration by wetting heated mass. Levigation
- .23 Laboratory receptacles and their accessories**
  - For uses of receptacles see also various processes and operations
- .231 Glass and quartz**
  - Beakers, bottles, flasks, retorts, test tubes, funnels, adapters, glass rods and tubing
- 5 Glass manipulation: blowing, grinding**
- .232 Porcelain**
  - Evaporating dishes, tubes, retorts. Refractory pottery: crucibles, plates
- .233 Metallic**
  - Containers made of platinum, silver, iron, nickel, aluminum, etc.
- .24 Supports**    Fixt, adjustable, wood.    Triangles, tripods, clamps
- .25 Stoppers**    Glass, cork, rubber    Corkborers
- .26 Rubber tubing**    Luting and cements
- .29 Other appliances**
- .3 Measuring apparatus**
- .32 Determination of weights and density**
  - Balances and weights    Descriptions and directions for use
- .33 Specific gravity apparatus**    Class preferably in 532.4
- .35 Determination of volume**
  - Mesuring volume of liquid    Calibrated vessels    Graduated pipets, burets and cylinders
- .4 Heating    Distillation**
  - See also 536.5 Measurement and regulation of heat; 542.53 Blowpiping
- .41 General**
- .42 Heating with coal**
  - Laboratory furnaces: trough, cupola, reverberatory, tubular, cupel, blast
  - Tube furnaces for organic analysis
- .43 Heating with liquid fuels, etc.**    Lamps; special burners
- .44 Heating with gas**
  - Coal gas, carburetted air, acetylene, etc.
  - Fishtail and Bunsen burners; gas furnaces and grates; pressure regulators
- .46 Indirect heating**
  - Baths and heaters: water baths; salt, metal and oil baths; metal plates or wire gauzes
- .47 Electric heating**
  - Heaters, muffles and furnaces; kryptol furnaces
  - See also 542.8 Electric and galvanic manipulations
- .48 Operations**
  - Melting, fusing, boiling. Vaporization, distillation. Distilling apparatus: alembics or stills. Deflegmators. Vacuum operations
  - Evaporation with heat: sublimation, dessication. For evaporation in vacuum see 542.77
- .49 Other heating operations**

- 542.5 **Flames Blowpipes**  
 See also 544.2 Dry methods of analysis; 669.9 Assaying
- .51 **Flame**  
 Nature of flame; candle flame; oxidizing and reducing flames
- .52 **Coloration of flame**  
 Beads, colored beads      Composit flames
- .53 **Blowpipes**
- .6 **Aqueous and liquid treatment**  
 Dissolving, aqueous separation, levigation, etc; alcohol, ether, carbondisulfid, hydrocarbons, etc.
- .61 **Dissolving Solution**  
 Solvents, maceration, digestion, decoction, lixiviation
- .62 **Determination of solubility      Supersaturation**  
 Supersaturated solution
- .63 **Diffusion**  
 Lowering the solidification point or surfusion
- .64 **Dialysis Dializers**  
 See also qualitativ analysis 544.5 Dialysis
- .65 **Solidification**  
 Precipitation, crystallization, crystallizers
- .66 **Decantation**  
 Decantation funnels, Florentin receivers, siphons, pipets
- .67 **Filtration and filters**  
 Filtration with textiles, with paper, thru cotton, asbestos, powders, etc.  
 Hot filtration      Filtration in seald vessels, by suction, by compression  
 Filter presses
- .68 **Expression and presses**      Drying of press residues; drying machines
- .69 **Washing**      Continuous, automatic; decantation, wash bottles
- .7 **Gas manipulation**  
 See also 545.7 Eudiometry
- .71 **General**
- .72 **Gas production**
- .73 **Gas collecting and decanting**  
 Pneumatic trough, gas sampling-tube, gas pipets; displacement and decanting
- .74 **Washing and dissolving gas**  
 Wash bottles      Apparatus for drying and absorbing gas
- .75 **Gas storage**      Gasometers, rubber bags
- .76 **Gas mesurement**      Graduated tubes, meters
- .77 **Rarefaction of gas**  
 Pumps: air, vacuum, mercury; blowing engines, bellows, suction gasometers; manometers; vacuum regulators; trompes  
 See also physics, 533.5 Air pumps
- .78 **Gas compression**  
 Seald tubes and bulbs, bellows, compression pumps, gasholders
- .79 **Gas liquefaction and solidification**  
 Faraday tubes      Apparatus for expansion; of Thilorier; of Cailletet and Linde
- .8 **Electric and galvanic manipulations**  
 See also physics, 537.85 Applications of electricity to chemistry. Class here only apparatus for preparing chemic substances, not apparatus for study of phenomena. For analytic apparatus see special substance under 543 or special process under 544 or 545
- .9 **Other operations**  
 Attacks by acids and gases; oxidations, reductions, etc. ]

## 543-545 Analytic chemistry

*art of determining composition of substances*

### 543 Analysis

Divided by material analyzed, whether qualitatively or quantitatively; i.e. substance takes precedence of process. Class in 543 general works covering both qualitative and quantitative analysis

See also 614.3 Adulterations

#### .1 Analysis of food and drink

See also 613.2 Hygiene, 612.39 Nutrition

#### .2 Dairy products Milk

See also agriculture, 637 Dairy products

#### .3 Water

See also hygiene 613.31 Water as a beverage; and therapeutics 615.79 Mineral waters

#### .4 Analysis of drugs and medicins

See also 614.35 Inspection of drugs; 615 Medicin

#### .5 Poisons

See also 615.9 Toxicology

#### .6 Analysis of rocks and ores

See also 549 Mineralogy, 669.9 Assaying, 631 Agricultural chemistry

#### .7 Analysis of inorganic products in general

For general works and special matter not provided for in previous subdivisions of 543

#### .8 Analysis of organic products in general

For general works and special matter not provided for in previous subdivisions of 543

#### .9 Analysis of organic products of animal origin

For general works and special matter not provided for in previous subdivisions of 543. See also 577 Biology

### 544 Qualitativ analysis

Determination of chemic elements of substances      General processes and methods

#### .1 Wet method

##### .11 Reagents

##### .12 Determination of bases

##### .13 Determination of acids

#### .2 Dry method

See also 669.9 Assaying

#### .3 Blowpiping

See also 542.53 Manipulation, 549.1 Mineralogy

#### .4 Gas analysis Reactions

Identifying an isolated gas      Analysis of gaseous mixtures      See also 545.7  
Eudiometry

#### .5 Dialysis

For technic see 542.64; for electric dialysis see 542.8

#### .6 Spectrum analysis

See also physics, 535.84 Spectrum analysis

#### .7 Polariscopic analysis

See also physics, 535.5 Polarization

#### .8 Microscopic examinations

#### .9 Other methods

Electro analysis

#### .92 Capillary analysis

## 545 Quantitativ analysis

- .1 **Gravimetric**  
Analysis by weighing, sampletaking
- .2 **Wet method**  
Titration solution, alkalimetry acidimetry
- .3 **Electric methods**  
See also physics, 537.85 Electrometallurgy  
For galvanoplastics see 671
- .311 Constant current analysis
- .312 Constant voltage analysis
- .36 **Catalytic analysis**
- .4 **Dry method**  
Quantitativ analyses with blowpipe, cupellation, etc.  
See also 669.9 Assaying
- .5 **Titrometric methods in general**
- .6 **Volumetric analysis of liquids**  
See also 542.3 Mesuring apparatus
- .7 **Volumetric analysis of gases**  
Eudiometry and eudiometers; gas burets, absorption pipets  
See also 544.4 Gas analysis
- .8 **Other methods**  
Colorimetric    Polarimetric    Refractometric
- .9 **Synthesis**  
General processes
- .97 **Electric synthesis**

## 546-547 Inorganic and organic chemistry

### 546 Inorganic chemistry *rather than carbon*

- .1 Nonmetallic elements
- .11 Hydrogen
- .12 Halogen group
- .13 Chlorin
- .14 Bromin
- .15 Iodin
- .16I Fluorin
- .17 Nitrogen group Nitrogen
- .18 Phosphorus
- .19I Arsenic
- .2 Oxygen group
- .21 Oxygen
- .22 Sulfur
- .23 Selenium
- .24I Tellurium
- .25 Carbon group
- .26 Carbon
- .27 Boron
- .28 Silicon
- .29 Helium group
- .29I Helium
- .292 Neon
- .293 Argon
- .294 Krypton
- .295 Xenon
- .3 Metals
- .31 Alkali group
- .32 Potassium
- .33 Sodium
- .34 Lithium
- .35 Rubidium
- .36 Caesium
- .37
- .38
- .39
- .4 Alkaline earths
- Calcium and magnesium groups considered together
- .41 Calcium
- .42 Strontium
- .43 Barium
- .432 Radium
- .44 Magnesium group
- .45 Beryllium or glucinum
- .46 Magnesium
- .47 Zinc
- .48 Cadmium
- .49

546.5	<b>Led and silver group</b>	
.51	Led	
.52	Thallium	
.55	<b>Silver group</b>	
.56	Copper	
.57	Silver	
.58	Mercury	
.59		
.6	<b>Cerium group</b>	<b>Rare earths</b>
.61	Yttrium	
.62	Cerium	
.63	Lanthanum	
.64	Didymium	
.642	Praseodymium	
.643	Neodymium	
.65	Erbium	
.652	Ytterbium	
.653	Terbium	
.66	Aluminum	
.67	Indium	
.68	Gallium	
.69	<b>Other metals of rare earths</b>	
.691	Scandium	
.692	Samarium or decipium	
.694	Gadolinium	
.695	Germanium	
.696	Europium	
.697	Thulium	
.7	<b>Iron group</b>	
	Iron and chromium groups considered together	
.71	Manganese	
.72	Iron	
.73	Cobalt	
.741	Nickel	
.75	<b>Chromium group</b>	
.76	Chromium	
.77	Molybdenum	
.78	Tungsten or wolfram	
.791	Uranium	
.8	<b>Tin group</b>	
	Tin and vanadium groups considered together	
.81	Tin	
.82	Titanium	
.83	Zirconium	
.841	Thorium	
.842	Actinium	
.85	<b>Vanadium group</b>	
.851	Vanadium	
.86	Antimony	
.87	Bismuth	
.88	Tantalum	
.891	Niobium or columbium	
.892	Polonium	

- .1 Cyanogen and its compounds
  - .2 Hydrocarbons Fatty series
    - .21 Paraffins
    - .22 Olefins
    - .23 Acetylenes
    - .24 Valylene Dipropargyl, etc.
  - .25 **Aromatic series**
    - .26 Benzenes
    - .27 Diphenyl group
    - .28 Naphthalene Anthracene Phenanthrene
    - .29 Higher series
- The 7 heds 547.3-547.9 are subdivided like 547.2
- .3 Alcohols Phenols
  - .4 Ethers: simple, compound; haloid
  - .5 Aldehydes
  - .6 Ketones Quinones
  - .7 Acids: acid halids, acid anhydrids, sulpho-acids
  - .8 Nitroderivates: amins, compound ammoniums, amids,  
amic acids, azo-bodies, azoxy-bodies, hydrazo-bodies,  
diazo-bodies
  - .9 Compounds with metals

## 548 Crystallography

- .1 Systems of crystallization
- .2 Twin crystals      Crystallin aggregations
- .3 Cleavage      Isomorfism      Polymorfism
- .4 Irregularities      Internal imperfections
- .5 Formation and growth of crystals
- .6 Pseudomorfs
- .7 Mathematic: mesurement of angles
- .8 Physical
- .9 Optical

## 549 Mineralogy

*identification & classification*  
*669 - mining & minerals*

.01 Philosophy, classification etc.    .02 Compendis    .03 Dictionaries    .04 Essays, papers, etc.  
.05 Periodicals    .06 Societies    .07 Study and teaching, museums    .08 Collectiv works    .09 History

- .1 **Determinativ**      **Blowpiping**      See also 542.5; 544.3
- .2 **Nativ elements**
- .3 **Sulfids, tellurids, selenids, arsenids, antimonids, bismuthids**
- .4 **Compounds of chlorin, bromin, iodin, and fluorin**
- .5 **Oxygen compounds: oxids**
- .6      **Silicates**
- .61          Anhydrous
- .65          Hydrous
- .7      **Other ternary oxygen compounds**
- .71          Tantalates      Columbates
- .72          Phosphates      Arsenates      Vanadates      Antimonates
- Nitrates
- .73          Borates
- .74          Tungstates      Molybdates      Chromates
- .75          Anhydrous sulfates
- .76          Hydrous sulfates
- .77          Tellurates
- .78          Carbonates
- .79          Oxalates
- .8      **Hydrocarbons**
- .9      **Geografic distribution**



550.1 Philosophy, theories, geologic time .2 Compendis .3 Dictionaries .4 Essays  
papers, tracts, letters .5 Periodicals .6 Societies .7 Study and teaching,  
museums .8 Collectiv works .9 History

551

## Physical and dynamic geology

Including Physical geografy For Cosmic geografy, see 523

- .1 Structure of earth as a whole**
- .11 Interior of earth
- .12 Internal heat
- .13 Earth's crust
- .14 Conductivity of rocks
- .2 Seismology**
- .21 Volcanoes
- .22 Earthquakes
- .23 Hot springs, geysers
- .24 Oscillations of the earth's crust
- .3 Erosion and deposition**
- .31 Glaciers and glacial phenomena
- .32 Moraines
- .33 Transported materials, till
- .34 Icebergs
- .35 Aqueous erosion
- .36 Coast changes
- .37 Aerial erosion
- .4 Surface features of the earth**
- .41 Continents Division of Oceans for use under .46
- .42 Ilands and .47
- .43 Mountains Valleys Orology 1 Atlantic North sea Baltic
- .44 Caves 2 Mediterranean Black sea
- .45 Plains 3 Gulf of Mexico Caribbean
- .46 Oceans 4 Southern Atlantic
- .47 Ocean currents 5 Pacific
- .48 Rivers Lakes 6 Eastern Pacific or American coast
- .49 Springs Wells Ground water 7 Indian Bay of Bengal Red sea
- .5 Meteorology** 8 Arctic
- .51 Atmospheric currents Winds 9 Antarctic
- .52 Thermometry, heat See also 536.5 Temperature; 613.18 Hygiene
- .53 Hypsometry See 526.36-8 for methods
- .54 Barometry, pressure
- .55 Storms
- .56 Climate
- .57 Moisture: rainfall, flow of streams, floods
- .58 Prairies, forests, and deserts

- 551.6 **Metamorfism**
- .7 **Stratigrafic geology**
- .71 Archæan
- .72 Primary, paleozoic, Cambrian
- .73 Silurian
- .731 Lower Silurian
- .732 Upper Silurian
- .74 Devonian Old red sandstone
- .75 Carboniferous
- .76 Secondary, mesozoic, triassic and Jurassic: lias, oolite
- .77 Cretaceous
- .78 Tertiary
- .781 Eocene
- .782 Miocene
- .783 Pliocene
- .79 Quaternary Postpliocene Glacial
- .791 Recent
- .8 **Structural geology**
- .81 Stratification
- .82 Curvature and contortion
- .83 Ripple marks and sun cracks
- .84 Joints Cleavage Polarity in rocks
- .85 Dip Outcrop Strike
- .86 Anticlinal Synclinal
- .87 Faults and folds Dislocations
- .88 Veins Dykes Necks Bosses
- .89
- .9 **Agents of geologic work**
- .91 Frost
- .92 Water
- .93 Atmosphere
- .94 Chemic changes Heat
- .95 Animals
- .96 Coral reefs
- .97 Plants
- .98 Segregation and concretion
- .99 Other agents

- .1 **Igneous rocks**
- .2 Volcanic rocks
- .21 Lavas Scoria
- .22 Volcanic ashes Volcanic tufa Tuff
- .23 Obsidian Pumis Pitchstone
- .24 Trachyte
- .25 Rhyolite
- .26 Andesite Dacite Phonolite
- .27 Felsites
- .28 Basalt
- .29 Other volcanic rocks
- .3 Plutonic rocks
- .31 Porphyry Porphyrite
- .32 Syenite
- .33 Granit
- .34 Diabase and gabbro
- .35 Dolerite
- .36 Diorite
- .37 Norite
- .38 Peridotite
- .39 Other Plutonic rocks
- .4 **Metamorphic rocks**
- .41 Granits and syenites
- .42 Gneiss
- .43 Schists
- .44 Slates Argillite Phyllite
- .45 Quartzite Novaculite Itacolomite
- .46 Marble Crystallin limestone
- .47 Serpentine
- .48 Chrysolitic rocks
- .49 Other metamorphic rocks
- .5 **Sedimentary rocks**
- .51 Sandstone Conglomerate Sand Gravel
- .52 Shale Clay Silt
- .53 Gypsum Salt
- .54 Limestone Marl Ooze
- .55 Dolomite
- .56 Oolite
- .57 Infusorial or diatomaceous earth
- .58 Glauconite Greensand
- .59 Other sedimentary rocks
- .6 **Meteorites**
- .7 **Decay of rocks**
- .8 **Microscopic petrography**
- .81 Determination of rock minerals
- .82 Rock structure

- 551.6 **Metamorfism**
- .7 **Stratigrafic geology**
- .71 Archæan
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- .51 Sandstone Conglomerate Sand Gravel
- .52 Shale Clay Silt
- .53 Gypsum Salt
- .54 Limestone Marl Ooze
- .55 Dolomite
- .56 Oolite
- .57 Infusorial or diatomaceous earth
- .58 Glauconite Greensand
- .59 Other sedimentary rocks
- .6 Meteorites**
- .7 Decay of rocks**
- .8 Microscopic petrography**
- .81 Determination of rock minerals
- .82 Rock structure

- .1 Ore deposits**
- .11 Formation and structure
- .12 Classification
- .13 Superficial: placers
- .14 Stratified: beds, etc.
- .15 Unstratified
- .16 Disseminated thru eruptiv rocks
- .17 Stockwerks Fahlbands Contacts
- .18 Chambers and pockets Impregnations
- .19 Mineral veins
- .2 Carbon series**
- .21 Peat While the history of all other products goes in 553
- .22 Lignite and jet history of metals is more
- .23 Cannel coal Bituminous shale useful in 669, Metallurgy
- .24 Bituminous and semibituminous coals
- .25 Anthracite and grafitic anthracite
- .26 Grafite Plumbago
- .27 Asfalt and asfaltic coals Ozocerite
- .28 Petroleum Natural gas
- .29 Fossil gums and resins
- .3 Ores of iron**
- .4 Ores of metals other than iron**
- .41 Ores of gold
- .42 Ores of silver
- .43 Ores of copper
- .44 Ores of led
- .45 Ores of zinc and tin Mercury
- .46 Ores of manganese and chromium
- .47 Ores of antimony and arsenic
- .48 Ores of nickel and cobalt
- .49 Other metallic ores
- .5 Bilding stones**
- .51 Marbles and limestones
- .52 Granits and syenites
- .53 Sandstones
- .54 Slates
- .55 Serpentine Soapstones
- .56 Porphyries
- .57 Trap
- .58 Tufa Peperino
- .59 Other bilding stones

- 553.6 **Earthy economic minerals**
- .61 Fire clays Brick clays Potter's clays
  - .62 Sands
  - .63 Rock salt Gypsum
  - .64 Phosphates Apatite Guano See also 631
  - .65 Emery
  - .66 Hevy spar Sulfur
  - .67 Asbestos, etc.
  - .68 Limes and mineral cements
  - .69 Other earthy economic minerals
  - .7 **Mineral waters**
    - Divide general works geograficly like 930-999; e.g. Mineral waters of Germany, 553. 7043
    - .71 Alkalin
    - .72 Salin
    - .73 Chalybeate, ironbearing
    - .74 Sulfuric
    - .75 Calcic
      - See also 551.23
  - .8 **Gems Ornamental stones**
  - .9 **Other economic minerals**
  - 554 **Geology of Europe** 554-559 subdivided by countries like 940-999
  - 555 **Geology of Asia**
  - 556 **Geology of Africa**
  - 557 **Geology of North America**
  - 558 **Geology of South America**
  - 559 **Geology of Oceanica Polar regions**
  - 560 **Paleontology** Use form divisions as in 550 and divide .9 geograficly like 930-999; e. g. Paleontology of Germany is 560.943
    - 561 **Plants** 561 is subdivided like Botany, 580
    - 562 **Invertebrates** 562-569 is subdivided like Zoology, 592-599
    - 563 **Protozoa Radiates** birds - animals as fossils
    - 564 **Mollusks** fossils, not as the fossils
    - 565 **Articulates**
    - 566 **Vertebrates**
    - 567 **Fishes Batrachia**
    - 568 **Reptils Birds**
    - 569 **Mammals**

# 570 Biology

- 570.1 Philosophy .2 Compendis .3 Dictionaries .4 Essays, lectures, etc.  
.5 Periodicals .6 Societies .7 Study and teaching, museums .8 Collectiv  
works .9 History

## 571 Prehistoric archeology

For Customs, see 390 For Archeology of special countries, see 913

- .1 Paleolithic, or early stone age**
- .11 Drift remains
- .12 Cave men
- .13 Remains of animals Shells
- .14 Chipped stones
- .15 Flint flakes Arrow heads Knives, etc.
- .16 Other stone remains
- .19 Other remains
- .2 Neolithic, or late stone age**
- .21 Stone quarries
- .22
- .23 Remains of animals
- .24 Polished stones
- .25 Sharp stones: celts, tools, weapons
- .26 Perforated stones: spindles, net sinkers, pipes
- .27 Hollow stones: mortars, cups, food vessels
- .28 Other stone remains
- .29 Other remains
- .3 Bronze age**
- .31 Ancient copper and tin mining
- .34 Bronze remains
- .35 Tools Weapons, etc.
- .37 Cups Vessels
- .39 Other remains
- .4 Iron age**
- .5 Other remains**
- .51 Implements of wood
- .52 Implements of bone
- .53 Basket work
- .54 Textile fabrics
- .55 Pottery
- .56 Glass
- .6**
- .7 Rudiments of art Ornaments**
- .71 Drawings
- .72 Paint
- .73 Sculptures
- .74 Beads



- 571.8 **Dwellings**
- .81 Natural caves
  - .82 Earth houses Pit dwellings Weems
  - .83 Lake dwellings Crannoges
  - .84 Cliff dwellings
  - .85 Pueblos
  - .86 Tents as dwellings
  - .9 **Mounds and monuments**
  - .91 Mounds and mound bilders
  - .92 Grave mounds
  - .93 Kitchen middens Shell banks
  - .94 Monoliths Cromlechs
  - .95 Circles Labyrinths
  - .96 Cairns
  - .97
  - .98
  - .99

572 **Ethnology Anthropology**

See also 136.4 Mental race characteristics

- .1 **Unity of the human race**
- .2 **Diversity of races**
- .3 **Migrations of men**
- .4 **Original home of man: Eden, Atlantis, etc.**
- .5 *Types*
- .6 *61 Houses*
- .7 *customs - Five*
- .8 **Races divided by language like 400**
- .9 **Races divided by countries like 930-999**  
Divide by countries where possible. Use language divisions for groups like Semitic, Aryan, Teutonic, English, etc.

573 **Natural history of men Somatology**

- .1 **Man's place in nature**
- .2 **Origin of man**
- .3 **Antiquity of man**
- .4 **Influence of climate and surroundings**
- .5 **Color in man**
- .6 **Anthropometry**
- .7 **Craniology**
- .8 **Dwarfs and giants**
- .9 **Monstrosities**

See also 611.012 Teratology; 613.91 Congenital defects; 617.3 Deformities

574 Homologies

575 Evolution

See also 213 Creation; 215 Religion and science; 239.8 Apologetics

- .1 Heredity See also 136.3 Mental; 233.3 Moral; 129.2 Origin of soul
- .2 Variation See also 591.15 Physiologic zoology
- .3 Environment See also 136.2 Mental; 573.4
- .4 Natural selection Survival of the fittest
- .5 Sexual selection
- .6 Development
- .7 Degeneration
- .8 Origin of species *cf Mendelism*
- .9 Origin of sexes See also 591.36 Embryology

576 Origin and beginnings of life

[576-577 are undergoing revision that will change some numbers and greatly enlarge them in the next edition]

- .1 Spontaneous generation
- .2 Protoplasm Bioplasm
- .3 Cells
- .4 Beginnings of motion and sensation
- .5
- .6

577 Properties of living matter

- .1 Chemic: difference between organic and inorganic
- .2 Life: difference between dead and living matter
- .3 Difference between vital and physical phenomena
- .4 Conditions of life: moisture, temperature
- .5 Difference between plants and animals
- .6 Vital force
- .7 Deth See also 612.013
- .8 Sex in nature
- .9

578 Microscopy See also 535.82 Optics

- .1 Varieties of microscopes
- .2 Optic parts
- .3 Mechanical parts
- .4 Accessory apparatus and management of microscope
- .5 Illuminating apparatus
- .6 Preparation and mounting of objects
- .7 Special preparation and study of inorganic material
- .8 " Botanic material See 581.8 Histology
- .9 " Zoologic material " 591.8

## Collectors manuals

*See on case of specimens etc. in the  
taxidermy etc.*

- .1 Preparing skeletons
- .2 Preservatives and hardening fluids
- .3 Injections
- .4 Taxidermy
- .5 Mounting specimens
- .6 Collecting
  - .611 Alluring; bait, light, etc.
  - .612 Hunting; nets, collecting bottle, etc.
  - .613 Killing
  - .614 Exchange Purchase
  - .615 Rearing
  - .616 Transporting
- .7 Arrangement of specimens in museums
  - .71 Cabinets
  - .72 Labels
- .8 Preservation of specimens
  - .81 Museum pests
  - .82 Pestifuges
  - .83 Prevention of moisture
  - .84 Retention of colors
- .9

# 580 Botany

580.1 Philosophy, classification, nomenclature .2 Compendia .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching, herbariums, botanic gardens .8 Collectiv works .9 History

## 581 Physiologic and structural botany

Subdivided where wished like 591

- .1 Physiology
- .2 Pathology      Teratology
- .21 Diseases
- .22 Teratology
- .23 Parasites
- .3 Embryology      Germination
- .4 Morfology      Comparativ anatomy
- .5 Habits
- .6 Economic
- .7 Organografy      Descriptiv anatomy
- .8 Histology      See 578.8

## .9 Geografic

- .91 Distribution of plants

Subdivide .93-99 like 930-999      Use .92 for ocean

This Geografic classification is to be used only for general works and cross references. 'Flora of North America' is put 581.97; but 'North American cryptogams' is class 586 with a reference from 581.97, but North American phanerogams go with 581.97 because it so completely covers the subject

General works covering both Phanerogamia and Cryptogamia are put under 580 as books covering Vertebrates and Invertebrates are put under 590

In applying these numbers to Fossil plants, 561, note that one more figure must be used than in fossil animals. The Zoology numbers are already given in the 3d place in Paleontology, e. g. 592 Invertebrates, 562 Fossil invertebrates, and so on to 599 Mammals, and 569 Fossil mammals. But in Fossil plants, 561, all 8 sections are group together and the section number must be repeated. Fossil phanerogams are 561.2 not 562, which is assignd to Invertebrate zoology as more important. Lichens are 561.91, etc. In the same way the Fossil flora of North America is 561.197, i. e. the first 2 Botany figures, 58, are changed to 561 to give the corresponding Fossil botany number, while in zoology the only change is from 59 to 56 for first 2 figures, except in 591 which can not change to 561, which is assignd to Botany. The Fossil fauna of North America must therefore go among general works under 560.97

## 582 Phanerogamia

See also Trees 715, *true flowers*  
*identical to trees*

The subsections below are taken from the recognized authority, Bentham and Hooker's *Genera plantarum*

## 583 Dicotyledonæ

- .I Polypetalæ
- .II Ranales
- .111 Ranunculaceæ
- .112 Dilleniaceæ
- .113 Calycanthaceæ
- .114 Magnoliaceæ
- .115 Anonaceæ
- .116 Menispermaceæ
- .117 Berberideæ
- .118 Nymphaeaceæ

**Parietales**

- .121 Sarraceniaceæ
- .122 Papaveraceæ
- .123 Cruciferae
- .131 Capparideæ
- .133 Resedaceæ
- .134 Cistineæ
- .135 Violarieæ
- .137 Canellaceæ
- .138 Bixineæ

**Polygalineæ**

- .141 Pittosporæ
- .142 Tremandreae
- .143 Polygaleæ
- .145 Vochysiaceæ

**Caryophyllineæ**

- .151 Frankeniaceæ
- .152 Caryophylleæ
- .153 Sileneæ
- .154 Alsineæ
- .155 Polycarpeæ
- .156 Portulaceæ
- .158 Tamariscineæ

**Guttiferales**

- .161 Elatineæ
- .162 Hypericineæ
- .163 Guttiferae
- .166 Ternstroemiaceæ
- .167 Dipterocarpeæ
- .168 Chlœanaceæ

**Malvales Malvaceæ**

- .17 Sterculiaceæ
- .19 Tiliaceæ

**Geraniales**

- .211 Lineæ
- .213 Humiriaceæ
- .214 Malpighiaceæ
- .221 Zygophylleæ
- .223 Geraniaceæ
- .23 Rutaceæ
- .241 Simarubeæ
- .245 Ochnaceæ
- .247 Burseraceæ
- .251 Meliaceæ
- .255 Chailletiaceæ

583.26	<b>Olacales</b>
.261	Olacineæ
.269	Ilicineæ
.27	<b>Celastrales</b>
.271	Celastrineæ
.274	Stackhousieæ
.275	Rhamnæ
.279	Ampelideæ
.28	<b>Sapindales</b>
.281	Sapindaceæ
.291	Sabiaceæ
.292	Anacardiaceæ
.297	<b>Anomala</b>
.298	Coriariæ
.299	Moringeæ
.3	<b>Rosales</b>
.31	Connaraceæ
.32	Leguminosæ
.37	Rosaceæ
.38	Saxifrageæ
.39	Crassulaceæ
.393	Droseraceæ
.394	Hamamelideæ
.396	Bruniaceæ
.398	Halorageæ
.4	<b>Myrtales</b>
.411	Rhizophoreæ
.414	Combretaceæ
.42	Myrtaceæ
.43	Melastomaceæ
.441	Lythriæ
.445	Onagrarieæ
.45	<b>Passiflorales</b>
.451	Samydaceæ
.453	Loaseæ
.455	Turneraceæ
.456	Passifloreæ
.461	Cucurbiaceæ
.468	Begoniaceæ
.469	Datisceæ
.47	<b>Ficoidales</b>
.471	Cactæ
.475	Ficoideæ
.48	<b>Umbellales</b>
.481	Umbelliferaæ
.491	Araliaceæ
.497	Cornaceæ

**Gamopetalæ**

.51	<b>Rubiales</b>	Caprifoliaceæ
.52		Rubiaceæ
.53	<b>Asterales</b>	
.531		Valerianeæ
.541		Dipsaceæ
.546		Calysereæ
.55		Compositæ
.57	<b>Campanales</b>	Stylidiæ
.58		Goodenovieæ
.59		Campanulaceæ
.6	<b>Ericales</b>	
.61		Vacciniaceæ
.62		Ericaceæ
.63		Monotropeæ
.64		Epacrideæ
.65		Diapensiaceæ
.66		Lennoaceæ
.67	<b>Primulales</b>	
.671		Plumbagineæ
.672		Primulaceæ
.677		Myrsineæ
.68	<b>Ebenales</b>	
.681		Sapotaceæ
.685		Ebenaceæ
.686		Styraceæ
.7	<b>Gentianales</b>	
.71		Oleaceæ
.716		Salvadoraceæ
.72		Apocynaceæ
.73		Asclepiadeæ
.74		Loganiaceæ
.75		Gentianeæ
.76	<b>Polemoniales</b>	
.761		Polemoniaceæ
.764		Hydrophyllaceæ
.77		Boragineæ
.78		Convolvulaceæ
.79		Solanaceæ
.8	<b>Personales</b>	
.81		Scrophularineæ
.821		Orobanchaceæ
.825		Lentibularieæ
.829		Columelliaceæ
.83		Gesneraceæ
.84		Bignoniaceæ
.85		Pedaliæ
.86		Acanthaceæ
.87	<b>Lamiales</b>	
.871		Myoporineæ
.876		Selagineæ
.88		Verbenaceæ
.891		Labiata
.899	<b>Ordo anomalus</b>	Plantagineæ

- .91      **Curvembryæ**  
 .911      Nyctagineæ  
 .912      Illecebraceæ  
 .913      Amarantaceæ  
 .914      Chenopodiaceæ  
 .915      Phytolaccaceæ  
 .916      Batideæ  
 .917      Polygonaceæ  
 .92      **Multiovulatæ aquaticæ**  
 .921      Podostemaceæ  
 .922      **Multiovulatæ terrestres**      Nepenthaceæ  
 .923      Cytinaceæ  
 .924      Aristolochiaceæ  
 .925      **Micrembryæ**      Piperaceæ  
 .926      Chloranthaceæ  
 .927      Myristiceæ  
 .928      Monimiaceæ  
 .93      **Daphnales**  
 .931      Laurineæ  
 .932      Proteaceæ  
 .933      Thymelæaceæ  
 .934      Penæaceæ  
 .935      Elæagnaceæ  
 .94      **Achlamydosporeæ**  
 .941      Loranthaceæ  
 .943      Santalaceæ  
 .947      Balanophoreæ  
 .95      **Unisexuales**  
 .951      Euphorbiaceæ  
 .961      Balanopseæ  
 .962      Urticaceæ  
 .971      Platanaceæ  
 .972      Leitnerieæ  
 .973      Juglandæ  
 .974      Myricaceæ  
 .975      Casuarineæ  
 .976      Cupuliferæ  
 .98      **Anomali**  
 .981      Salicineæ  
 .983      Lacistemaceæ  
 .984      Empetraceæ  
 .987      Ceratophylleæ



Monocotyledonæ

- .1 **Microspermeæ**
- .11 Hydrocharideæ
- .13 Burmanniaceæ
- .15 Orchideæ
- .2 **Epigyneæ**
- .21 Scitamineæ
- .22 Bromeliaceæ
- .23 Hæmodoraceæ
- .24 Irideæ
- .25 Amaryllideæ
- .26 Taccaceæ
- .27 Dioscoreaceæ
- .3 **Coronarieæ**
- .31 Roxburghiaceæ
- .32 Liliaceæ
- .34 Pontederiaceæ
- .35 Phillydraceæ
- .36 Xyrideæ
- .37 Mayaceæ
- .38 Commelinaceæ
- .39 Rapateaceæ
- .4 **Calycineæ**
- .41 Flagellarieæ
- .45 Juncaceæ
- .5 Palmæ
- .6 **Nudifloreæ**
- .61 Pandaneæ
- .62 Cyclanthaceæ
- .63 Typhaceæ
- .64 Aroideæ
- .68 Lemnaceæ
- .7 **Apocarpæ**
- .71 Triurideæ
- .72 Alismaceæ
- .74 Naiadaceæ
- .8 **Glumaceæ**
- .81 Eriocaulææ
- .82 Centrolepideæ
- .83 Restiaceæ
- .84 Cyperaceæ
- .9 Gramineæ

Gymnospermæ

- .1 Gnetaceæ
- .2 Coniferæ
- .9 Cycadaceæ

Cryptogamia

Pteridophyta

- .1 Isoetææ
- .2 Equisetæ
- .3 Filicinæ
- .9 Lycopodinæ

588 Bryophyta

- .1 Sphagna
- .2 Musci
- .3 Hepaticæ
- .4 Characeæ

589 Thallophyta

.1 Lichenes

- .11 Basidiolichenes
- .15 Ascolichenes
- .16 Angiocarpæ
- .17 Gymnocarpæ
- .18 Gelatinosæ
- .19 Byssaceæ

.2 Fungi

- .21 Carposporeæ
- .22 Basidiomycetes
- .221 Gasteromycetes
- .222 Hymenomycetes
- .224 Tremellinæ
- .225 Uredinæ
- .227 Ustilagineæ
- .229 Entomophthorææ
- .23 Ascomycetes
- .231 Tuberaceæ
- .233 Discomycetes
- .235 Pyrenomycetes
- .238 Gymnoasceæ
- .24 Oosporeæ
- .25 Peronosporææ
- .26 Saprolegniææ
- .27 Zygosporææ
- .28 Zygomycetes
- .29 Myxomycetes

.3 Algæ

- .4 Carposporææ
- .41 Floridææ
- .47 Coleochaetææ
- .5 Oosporeæ
- .6 Zygosporææ
- .61 Conjugatææ
- .67 Zoosporeæ

.7 Protophyta

- .8 Chlorophyllaceæ
- .9 Achlorophyllaceæ
- .91 Saccharomycetes Yeast
- .95 Schizomycetes Bacteria Microbes

See also 614.41 Origin of infectious diseases; 616.01 Germ theory of disease

# 590 Zoology

*in general. Collections.*

- 590.1 Philosophy, classification .2 Compendis .3 Dictionaries .4 Essays,  
lectures, etc. .5 Periodicals .6 Societies .7 Study and teaching, zoologic  
gardens, aquaria, museums .8 Collectiv works .9 History

## 591 Physiologic zoology

- .1 **Physiology**
- .11 Circulation
- .12 Respiration
  - .121 Nature
  - .122 Dermal
  - .123 Aquivascular
  - .125 Branchial
  - .126 Tracheal
  - .127 Pulmonary
  - .129 Exhalation of aqueous vapor
- .13 **Nutrition**
  - .131 Acquisition of food
  - .132 Digestion of food
  - .133 Assimilation of food
  - .134 Growth
  - .135 Development
  - .136 Repair of waste
  - .137 Production of organic material
  - .138 Conditions of nutritiv activity
  - .139 Longevity, vitality
- .14 **Secretion and excretion**
  - .141 Mucous and sebaceous
  - .142 Sericeous
  - .143 Digestiv: salivary, gastric, pancreatic
  - .144 Odoriferous, sweet, etc.
  - .145 Poisonous, gall formation, caprification
  - .146 Mammary, spermatic
  - .147 Lacrimal
  - .148 Biliary
  - .149 Urinary and fecal
- .15 **Variation** See also 575.2 Evolution
  - .150 *Seasonal* Polymorphic
  - .152 Geografic
  - .153 Heterofagic
  - .154 Polygoneutic
  - .155 Mimetic
  - .156 Sexual
  - .157 Colorational
  - .158 Hybrids
  - .159 Monstrosities

- 591.16 Generation
- .161 Abiogenesis
  - .162 Parthenogenesis, neuters
  - .163 Metagenesis, pedogenesis, nurses
  - .165 Fission and gemmation
  - .166 Fecundation
  - .167 Hermaphrodites
  - .168 Vivipara
  - .169 Superfetation
  - .17 Histogenesis
  - .171 Development of sperm cells
  - .172 Development of germ cells, micropyle
  - .179 Reparation of wounds
  - .18 Nervous functions and sensation
  - .19 Physiologic chemistry
  - .2 **Pathology**
  - .3 **Embryology**
  - .33 Development of embryo
  - .34 Metamorphosis, larva, pupa, molting
  - .35 Hypermetamorphosis
  - .36 Production of sexes  
See also 575.9 Origin of sexes
  - .4 **Morphology      Comparativ anatomy**
  - .41 Circulatory organs
  - .42 Respiratory organs
  - .43 Nutritory organs
  - .44 Secretory and excretory organs
  - .45
  - .46 Generatory organs
  - .47 Motory organs
  - .48 Nervous system
  - .49 Integument      Dermoskeleton      Skeleton
  - .5 **Habits and behavior**      *color protection*
  - .51 Instinct      Reason
  - .52 Abode      Migration
  - .53 Food
  - .54 Seasons      Hibernation
  - .55 Sociability
  - .56 Philoprogenitiveness      Breeding
  - .57 Means of protection      Fascination
  - .58 *Herd Instinct*
  - .59 Other habits

- 591.6 **Economic**
- .61 Usefulness
  - .62 In nature
  - .63 As food and medicin for man
  - .64 In chemistry and manufactures
  - .65 Noxiousness
  - .66 Offensiv animals
  - .67 Animals causing diseases [substances
  - .68 Injuring vegetable and animal products and inorganic
  - .69 Injuring living plants and animals Parasites
  - .7 **Organografy Descriptiv anatomy**  
Subdivided like 591.4 Morfology
  - .8 **Histology** See also 578.9 Microscopic zoology
  - .9 **Geografic distribution of animals**  
Subdivide like 930-999, using .92 for ocean

592 **Invertebrates**

593 **Protozoans Radiates**

*Division according to H. S. G.*

- .1 **Protozoans**
- .11 Rhizopoda
- .12 Foraminifera
- .13 Heliozoa
- .14 Radiolaria Polycystina
- .15 Infusoria
- .16 Flagellata
- .17 Ciliata
- .18
- .19 Gregarinidæ
- .2 **Radiates**
- .3 Cœlenterata Acalepha (old use of term, now limited to 593.73)
- .4 Sponges Porifera Spongia
- .5 Cnidaria
- .6 Actinozoa Polyps Corals and sea anemones
- .61 Rugosa Tetracorolla
- .62 Alcyonaria Octocorolla
- .63 Zoantharia Hexacorolla
- .64 Antipatharia
- .65 Actinaria
- .66 Madreporaria
- .7 Hydrozoa
- .71 Hydromedusæ
- .72 Siphonophora
- .73 Acalepha
- .74 Calycozoa
- .76 Marsupialida
- .77 Discophora Jelly fish
- .8 Ctenophora Jelly fish

593-9	<b>Echinodermata</b>
.91	Crinoidea, sea lilies
.92	Asteroidea, star fish
.93	Stelleridea
.94	Ophiuridea
.95	Echinoidea, sea urchins
.96	Holothuroidea, sea cucumbers
.97	Pedata
.98	Apoda
.99	<b>Enteropneusta</b>

## 594 Mollusks

.1	<b>Lamellibranchiata</b>	<b>Bivalvs</b>	
.2	<b>Scaphopoda</b>		
.3	<b>Gastropoda</b>	<b>Univalvs: snails, slugs</b>	See also 632 Pests
.4	<b>Pteropoda</b>	<b>Winged shells</b>	
.5	<b>Cephalopoda</b>	<b>Squids and cuttle fish</b>	
.6	<b>Molluscoidea</b>		
.7	<b>Bryozoa</b>	<b>(Polyzoa)</b>	<b>Sea mats</b>
.8	<b>Brachiopoda</b>	<b>Lamp shells</b>	
.9	<b>Tunicata</b>	<b>(Ascidia)</b>	<b>Sea grapes</b>

## 595 Articulates

.1	<b>Worms</b>	<b>Vermes</b>	See also 632 Pests
.2	<b>Arthropoda</b>		
.3	<b>Crustacea</b>		
.31	<b>Entomostraca</b>	<b>Cyclops, shrimps, etc.</b>	
.32	<b>Phyllopoda</b>		
.33	<b>Ostracoda</b>		
.34	<b>Copepoda</b>		
.35	<b>Cirripedia</b>	<b>Barnacles, etc.</b>	
.36	<b>Malacostraca</b>	<b>Sandbugs, crabs, lobsters, etc.</b>	
.37	<b>Arthrostraca</b>		
.38	<b>Thoracostraca</b>		
.39	<b>Gigantostraca</b>	<b>Trilobites</b>	
.4	<b>Arachnida</b>	<b>Spiders</b>	<b>Scorpions</b>
			<b>Mites</b> See also 632 Pests
.5	<b>Onychophora</b>		
.6	<b>Myriopoda: centipedes, etc.</b>	See also 632 Pests	
.7	<b>Insects</b>	<b>Insecta</b>	<b>Hexapoda</b> See also 632 Pests
.71	<b>Thysanura:</b>	<b>bristletails, springtails, etc.</b>	
.72	<b>Orthoptera:</b>	<b>grasshoppers, etc.</b>	
.73	<b>Pseudoneuroptera:</b>	<b>dragon-flies, white ants, etc.</b>	
.74	<b>Neuroptera:</b>	<b>caddis flies, etc.</b>	
.75	<b>Rhynchota:</b>	<b>(hemiptera) bugs, etc.</b>	
.76	<b>Coleoptera:</b>	<b>beetles</b>	
.77	<b>Diptera:</b>	<b>flies, etc.</b>	
.78	<b>Lepidoptera:</b>	<b>butterflies, moths</b>	
.79	<b>Hymenoptera:</b>	<b>bees, wasps, etc.</b>	

596 Vertebrates

597 Fishes Pisces

- .1 Pharyngobranchii Lancelet
- .2 Marsipobranchii Lampreys
- .3 Elasmobranchii Sharks, rays, etc.
- .4 Ganoidei Sturgeons, garpikes, etc.
- .5 Teleostei: true bony fishes
- .6 Batrachia (Amphibia)
- .7 Ophiomorpha
- .8 Anura Toads, frogs
- .9 Urodela Salamanders

598 Reptils Birds

- .1 Reptils
- .11 Lacertilia Lizards
- .12 Ophidia Snakes
- .13 Chelonia Turtles
- .14 Crocodilia Crocodiles
- .15 Ichthyopterygia
- .16 Sauropterygia
- .17 Anomodontia
- .18 Pterosauria
- .19 Dinosauria
- .2 Birds Aves
- .3 Grallatores, waders
- .4 Natatores, swimmers
- .5 Cursores, runners
- .6 Rasores, scratchers
- .7 Scansores, climbers
- .8 Insesores, perchers
- .9 Raptores, birds of prey

599 Mammals Mammalia

- .1 Monotremata Duckbill platypus
- .2 Marsupialia Kangaroos, opossums
- .3 Edentata Rodentia Insectivora Sloths Rodents  
Moles
- .4 Cheiroptera Bats
- .5 Cetacea Sirenia Whales, etc.
- .6 Proboscidea Hyracoidea Elephants Hyrax
- .7 Ungulata Carnivora Domestic mammals See also 636
- .8 Quadrumana Apes
- .9 Bimana Man See also 573 Nat. hist. of man; 610 Medicin

# Useful Arts

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- 600 Useful arts**
- 601 Philosophy Theories, etc.
  - 602 Compends, outlines
  - 603 Dictionaries, cyclopedias
  - 604 Essays, lectures, addresses
  - 605 Periodicals, magazines, reviews
  - 606 Societies Fairs Exhibitions  
Special exhibitions go with their topics. This is general only
  - 607 Education Schools of technology  
Divided like 940-99
  - 608 Patents Inventions
  - 609 History of useful arts in general  
For its history, see each special department



# 610 **Medicin**

610.1 Philosophy, theories    2. Compendis    3. Dictionaries, cyclopedias    4. Essays  
.5 Periodicals    .6 Societies    .7 Study and teaching    .71 Medical schools;  
divided like 940-999    .72 Medical education of women    .73 Training schools  
for nurses    .77 Medical museums    .8 Collections    .9 History of medicin

# 611 **Anatomy**

See also 591.4 Comparativ anatomy; 591.8 Zoologic histology

## SUMMARY

- 611.01 Theory
- .012 Teratology
- .013 Embryology
- .014 Anthropologic anatomy
- .016 Paleontologic    "
- .018 Histology
- .019 Comparativ anatomy
- .1 Circulatory system
- .2 Respiratory    "
- .3 Digestiv    "
- .4 Glandular and lymphatic system
- .6 Genito-urinary system
- .7 Motor and integumentary system
- .8 Nervous system
- .9 Regional anatomy



- .01 Theory
- .0111 Notion, definition, value
- .0112 Classification, division
- .0114 Terminology
- .012 **Teratology**    **Anomalies**

To be subdivided like revised 617.3 Orthopedic surgery

- .013 **Ontogeny**    **Embryology**

See also physiology, 612.6 Reproduction and development

## Germinativ cells

- I **Sperm**
- 12 Spermatogenesis    See also 611.63 Male genital organs
- 15 **Ovum**
- 16 Ovogenesis    See also 611.65 Female genital organs
- 17 Maturation    Corpus luteum

## Copulation    Fecundation    Fertilization

See also Fecundation, in botany 581.166; in zoology 591.3

## Germ layers

- 31 **Segmentation**    **Cleavage**    **Blastula**
- 314 Blastula
- 32 **Gastrula**
- 33 **Primitiv streak**
- 34 **Blastopore**    Primitiv mouth
- 35 **Archenteron**    Primitiv gut
- 36 **Neurenteric canal**
- 37 **Entoderm, entoblast, hypoblast or endoderm**
- 38 **Ectoderm, epiblast or ectoblast**
- 39 **Mesoderm or mesoblast**
- 39! Mesenchyme
- 4 **Entodermic, entoblastic or hypoblastic organs**
- 41 **Notochord**
- 5 **Ectodermic, epiblastic or ectoblastic organs**
- Epidermal layer
- 51 **Neural furrows, folds and canal or medullary plates**
- See also 611.8 Nervous system

- 611.0136 Mesodermic organs
- 61 Protovertebrae Mesoblastic somites, or primitiv  
vertebrae
- 64 Somatopleure, body wall, or musculocutaneous plate  
Outer lamella of lateral plates
- 65 Splanchnopleure, fibrous wall of alimentary canal, or  
gut fiber plate  
Inner lamella of lateral plates
- 66 Coelom, pleuroperitoneal or body cavity  
See also 611.389 Coelom
- 68 Blood or primitiv vessel wall  
See also 611.0185 Histology of blood
- 7 External form of embryo
- 8 Fetal appendages
- 81 Vitellin sac
- 82 Allantois
- 83 Amnion
- 835 Amniotic fluid
- 84 Chorion
- 85 Placenta Umbilic cord
- 9 Experimental embryology
- .014 Anthropologic anatomy  
See also 572 Anthropology
- .016 Paleontologic anatomy  
See also 560 Paleontology
- .018 Histology  
Microscopic structure of organs
- I Cells Cytology  
See also 576.3 Cytology For special cells see tissues to which  
they belong
- 11 Protoplasm
- 13 Nucleus
- 15 Cell division See also 611.01331
- 16 Centrosome
- 18 Cilia Cellular membrane
- 2 Connectiv tissue  
Connectiv, cartilage and bone tissue together known as 'sup-  
porting tissues'
- 21 Connectiv tissue cells
- 22 Connectiv tissue fibers
- 23 Ground substance or matrix
- 24 Reticular and adenoid tissue  
Areolar or interstitial tissue Reticulum
- 25 Mucous or gelatinous tissue Mesenchyme  
See also embryology, 611.013395 Mesenchyme
- 26 Adipose or fat tissue
- 27 Elastic or yellow fibrous tissue
- 28 Fibrous or white fibrous tissue
- 29 Pigment and pigment cells
- 3 Cartilaginous tissue  
True or hyalin cartilage, cartilage cells or chondroblasts For  
Elastic, yellow fibrocartilage, or reticular cartilage see  
611.01827; for Fibrocartilage, fibrous or white fibrocartilage  
see 611.01828
- 34 Perichondrium

611.018	4	Bone or osseous tissue		
	41	Bone cells		
		Osteoblasts	Osteoclasts	Howship's lacunae
		plaques of Robin		Myelo-
	43	Ground substance or matrix		
		Spongiosum, spongy substance, or cancellated or spongy bone		
		Compact substance		
		Structure: lacunae, canaliculi, lamellae, Haversian canals		
		Volkman's canals		
	44	Periosteum		
		Osteogenetic layer or cells; fibers of Sharpey		
	46	Bone marrow or medulla		
	5	Blood		
		See also physiology, 612.11 Blood		
		For sperm, see 611.01311 and 612.616		
	57	Lymph		
		See also 612.42 Lymphatic system		
	6	Muscular tissue	Sarcoplasm	
	61	Smooth, unstriped, unstriated or involuntary muscle		
	62	Striped, striated or voluntary muscle		
		Sarcolemma		
	63	Cardiac muscle		
	64	Histology of muscular contraction		
	7	Epithelial tissue		
	72	Glandular system		
	73	Mucous membranes		
	74	Serous	“	Endothelia
	8	Nervous tissue		
	81	General structure	Tectology	Neurone
		Regeneration		
	82	Nerv cells		
		Protoplasm: Nissl's bodies; reticular, fibrillar, and canalicular structures; pigment. Nucleus. Centrosome. Cell membrane and division		
	83	Prolongations and nerv fibers		
		Cylinder-axis process; cylinder axis. Appendixes, varicosities		
	833	Neurilemma	Schwann's sheath	
	834	Myelin	Ranvier's nodes	Medullary sheath
	835	Adventitious sheath, perineurium	Epineurium	
		Endoneurium		
	837	Dendrites		
	84	Neuroglia	Ependymal cells, amyloids	
	86	Terminations		
	861	Motor terminations		
	866	Sensory	“	
.019		Comparison with anatomy of lower animals		
		Usually better clast in 591.4		
		Form divisions		
.02		Compendis		
.03		Dictionaries	Cyclopedias	
.04		Essays	Addresses	
.05		Periodicals		
.06		Societies	Clubs	

611.07	Teaching	Methods
.072	Laboratories	Dissection
.077		Pedagogic methods
.078	Instruments	Apparatus
.08		Polygraphy
.09		History

<b>.I</b>	<b>Circulatory system</b>	
<b>.II</b>	<b>Pericardium</b>	
<b>.I2</b>	<b>Hart</b>	
.122	Left hart	
.123	Right hart	
<b>.I24</b>	<b>Ventricles</b>	
	2 Right	5 Left
<b>.I25</b>	<b>Auricles</b>	
	2 Right	5 Left
<b>.I26</b>	<b>Endocardium</b>	
3	Valvs	
4	Auriculoventricular valvs	
42	Mitral or bicuspid valvs	
46	Tricuspid valvs	
5	Valvs of aorta and of pulmonary artery	
	Sinuses of Valsalva	
52	Aortic valvs	
56	Pulmonary or semilunar valvs	
6	Valvs of right auricle	
	2 Eustachian	5 Coronary
<b>.I27</b>	<b>Myocardium</b>	
<b>.I3</b>	<b>Arteries</b>	
<b>.I31</b>	<b>Pulmonary artery</b>	
	2 Right branch	5 Left branch
<b>.I32</b>	<b>Aorta</b>	
1	Aortic arch	Ascending aorta
2	Coronary arteries	
	2 Right	5 Left
5	Innminate artery	
<b>.I33</b>	<b>Carotid arteries</b>	
1	Common carotid	
2	External	"
21	Superior thyroid	
22	Lingual	
23	Facial, or external maxillary	
24	Ascending pharyngeal	
25	Posterior auricular	
26	Occipital	
27	Superficial temporal	
28	Internal maxillary	
281	Sphenopalatin arteries	
289	Middle or great meningeal	
3	Internal carotid	
32	Ophthalmic artery	
33	Cerebral arteries, anterior and middle	
	For posterior cerebral artery see 611.1349	

611.134

**Subclavian arteries**

1

**Axillary**

Superior thoracic, acromiothoracic, long thoracic or externa  
mammary, alar thoracic, subscapular, posterior and anterior  
circumflex

2

**Brachial or humeral**

Superior and inferior profunda, nutrient, anastomotica magna  
muscular

3

**Forearm arteries**

31

Radial

35

Ulnar

4

**Hand arteries**

5

Internal mammary Superior epigastric

6

**Costocervical trunk**

7

**Thyrocervical trunk**

8

Posterior, or dorsal scapular, transversa coli:

9

Vertebral Basilar, posterior cerebral, circle of Willis

**.135**

**Thoracic aorta and branches**

1

Parietal branches

4

Intercostal "

Subcostal, diafragmatic, vas aberrans

5

Visceral branches

Bronchial, esophageal, pericardial, mediastinal

**.136**

**Abdominal aorta and branches**

1

Inferior phrenic

2

Lumbar

3

Middle sacral; caudal

4

Celiac axis

Celiac mesenteric, umbilic mesenteric or omphalomesenterica

Hepatic

Pyloric, gastroduodenal, superior pancreaticoduodenal, right  
gastro-epiploic, cystic

42

Splenic, lienalis

Pancreatic, vasa brevia, left gastro-epiploic

43

Left gastric, gastric, or coronary gastric

5

**Mesenteric**

51

Superior mesenteric

Rami intestini tenuis, or branches of small intestine; inferior  
pancreaticoduodenal; middle, right and ileocolic; terminal and  
appendicular branches

52

Inferior mesenteric

Left colic, sigmoid, superior hemorrhoidal

6

Middle suprarenal

7

Renal

8

Spermatic

9

Ovarian

**.137**

**Iliac arteries**

1

Common iliac

2

Hypogastric, or internal iliac

3

Parietal branches

4

Lateral sacral

5

Obturator

	<b>Gluteal</b>
61	Superior gluteal
65	Inferior gluteal      Sciatic
7	<b>Visceral branches</b>
71	Umbilic, superior vesical
72	Inferior vesical and deferential
73	Uterin and vaginal
74	Middle hemorrhoidal
75	Internal pudic
8	<b>External iliac artery</b>
81	Inferior epigastric, or deep epigastric
82	Deep circumflex iliac
83	Femoral
84	Deep femoral, profunda femoris
	2 External circumflex      5 Internal circumflex
85	Arteria genu suprema, or anastomotica magna
86	Popliteal
87	Anterior tibial
9	<b>Tibiofibular trunk, truncus tibioperoneus</b>
91	Posterior tibial
92	Peroneal
93	<b>Arteries of foot</b>
94	Dorsalis pedis
	Tarsal, metatarsal, dorsal interosseous, dorsalis hallucis
95	Plantar
.14	<b>Veins</b>
.141	<b>Pulmonary</b>
.142	<b>Cardiac or venae cordis</b>
.143	<b>Subintestinal, or fetal portal vein</b>
.144	<b>Cardinal</b>
.145	<b>Superior vena cava</b>
	Innominate veins      Veins of neck
1	<b>Internal jugular vein</b>
	Thyroid veins
11	<b>Cerebral veins      Sinuses of dura mater</b>
13	Emissary vein
15	<b>Superior ophthalmic</b>
16	<b>Inferior      “</b>
17	<b>Facial</b>
2	<b>External jugular</b>
3	<b>Posterior external jugular and vertebral</b>
4	<b>Subclavian and axillary</b>
41	Deep veins of upper extremity
46	<b>Superficial veins of upper extremity</b>
	2 Basilic      5 Cephalic
6	<b>Azygos</b>
7	<b>Spinal veins</b>

611.146

**Inferior vena cava**

- 1 Lumbar veins
- 2 Renal "
- 3 Suprarenal "
- 4 Hepatic "
- 5 Inferior phrenic
- 6 Spermatic  
Pampiniform or spermatic plexus
- 7 Ovarian

.147

**Iliac veins**

- 1 Hypogastric or internal iliac  
Hemorrhoidal plexus
- 2 External iliac
- 3 Femoral Popliteal
- 33 Long, or internal saphenous
- 37 Tibial veins
- 38 Short, or external saphenous
- 39 Veins of foot

.149

**Portal vein**

- 1 Superior mesenteric
- 2 Inferior "
- 3 Ventricular coronary, gastric, or venae gastricae Pyloric
- 4 Splenic, or lienalis
- 5 Cystic
- 7 Fetal hepatic veins Omphalomesenteric  
Ductus venosus Aranzii, or sinus venosus, large vein passing  
directly thru fetal liver
- 8 Umbilic

.15

**Capillaries**

.2

**Respiratory system**

.21

**Nose**

See also 611.86 Organs of smell

.211

**External nose**

.22

**Larynx**

.221

**Cartilages**

.223

Epiglottis, thyroid, arytenoid, cuneiform, cornicular

.224

False vocal cords

Ventricles

.225

**Cavity of larynx** **Glottis**

True vocal cords Rima glottidis or chink of glottis

.227

Ligaments

.229

**Muscles of larynx**

.23

**Trachea and bronchi**

.231

**Trachea**

.233

**Bronchi**

See also 611.24 below

.24

**Lungs, or pulmones**

.25

**Pleura**

.26

**Diafram**

.27

**Mediastinum**

.28

Gills

See comparativ anatomy, 591.42 Respiratory organs

.29

Other organs, including air bladder, swimming bladder

See 591.42

- 611.3 Digestiv system**
- .31 Mouth, buccal cavity or cavum oris
  - .313 **Tung**
    - 5 Papillae
  - .314 **Teeth**
  - .315 **Palate, palatum, or roof of mouth**      Soft palate, or  
velum pendulum palati      Uvula
  - .316 **Salivary and other glands of mouth**
    - 1 Submaxillary and sublingual glands
    - 5 Parotid glands      Stenson's duct
  - .317 **Lips**
  - .318 **Cheeks**
  - .32 Pharynx      Esophagus
  - .321 **Pharynx**
  - .322 **Tonsils**
    - .323 Faucial tonsils
    - .324 Pharyngeal or Luschka's tonsils
    - .325 Lingual, buccal or 4th tonsil
    - .326 Other tonsils: laryngeal, nasal
    - .327 **Topograpy or regions of pharynx**
      - 1 Nasal or epipharynx
      - 2 Oral, buccal, or meso pharynx
      - 3 Laryngeal or hypo pharynx
      - 4 Back
      - 5 Sides
  - .329 **Esophagus**
    - 1 Cervical      2 Thoracic section      3 Abdominal section,  
including diaframatic
  - .33 **Stomach**
    - Gastric glands: true, oxyntic or peptic; pyloric; cardiac
    - .333 Cardia
    - .334 Pylorus
    - .335 Greater curvature, or lower convex surface
    - .336 Lesser      "      " upper concave      "
  - .34 **Intestin**
  - .341 **Small intestin**
    - 2 Meckel's diverticulum
    - 3 Peyer's patches, or tonsillae intestinales
    - 4 Plicae circulares
    - 5 Glands of Lieberkühn and solitary glands
    - .342 Duodenum      Brünner's glands
    - .343 Jejunum
    - .344 Ileum
  - .345 **Cecum**
    - 1 Ileocecal valv
    - 2 Vermiform appendix
  - .347 **Large intestin**
    - Including cecum      Appendices epiploicae
  - .348 **Colon**
    - 2 Ascending
    - 3 Transverse
    - 4 Descending
    - .349 Sigmoid flexure
  - .35 **Rectum      Anus**
    - .351 Rectum      Houston's or rectal valvs
    - .352 Anus
    - .353 Perineum      See also 611.96



611.36

Liver

- .361 Bile ducts Bile capillaries or canaliculi
- .362 Hepatic duct
- .366 Cystic duct Gall bladder
- .367 Common bile duct, or ductus communis choledicus  
Process and ampulla of Vater

.37

Pancreas

- .373 Pancreatic duct, or canal of Wirsung
- .375 Duct of Santorini
- .376 Glandular portion
- .377 Interaleveolar cell-islets, intertubular cell masses, islands of Langerhans

.38

Peritoneum Mesentery Omentum Coelom

.381

Peritoneum

- .382 2 Parietal - 5 Visceral  
Omentum, epiploon  
Lesser or gastrohepatic, great or gastrocolic, gastrosplenic
- .383 Mesentery  
Transverse and sigmoid mesocolon; mesorectum; mesoappendix
- .384 Retroperitoneal fossae
- .389 Coelom or pleuroperitoneal cavity

.39

Adipose bodies

.4

Glandular and lymphatic system

Put glands of any special system with that system. See 611.36, Liver; 611.61, Kidneys; 611.316, Salivary glands; 611.69, Mammary glands. But class here chromaffin tissue in general

.41

Spleen

- .415 Malpighian bodies
- .418 Capsule of spleen

.42

Lymphatic vessels or lymphatics and capillaries

For lymphatics of an organ or tissue, see name of organ or tissue  
Lymphatic spaces

.421

Lymphatics by region

- 1 Hed
- 2 Face
- 3 Neck
- 4 Thorax
- 5 Abdomen
- 6 Pelvic region
- 7 Upper extremity  
2 Arm 4 Forearm 6 Hand
- 8 Lower extremity  
2 Thigh 4 Leg 6 Foot
- 9 Tail

.423

Receptaculum chyli or cistern of Pecquet

.424

Thoracic duct (left)

.425

Right lymphatic duct

.426

- Lacteals
- 5 Villi

.43

Thymus

- .435 Accessory thymus

.44

Thyroid gland

- .445 Accessory or aberrant thyroids
- .447 Parathyroids

.45

Suprarenal capsules or bodies

Accessory suprarenal capsules

## 611.46

## Lymphatic glands

- .461 Glands of head  
 .462 " " face  
     Internal maxillary      Submental  
 .463 Glands of neck  
   1 Suboccipital or occipital  
   2 Mastoid, retroauricular or postauricular  
   6 Retropharyngeal  
   7 Cervical or jugular  
   8 Subclavian  
 .464 Glands of thorax  
   1 Diaframatic  
   2 Mammary lymph  
   3 Intercostal  
   4 Mediastinal  
 .465 Abdominal lymph glands  
   1 Iliac and hypogastric: sacral, lumbar  
   2 Abdomino-aortic  
   21 Juxta-aortic  
   22 Preaortic: gastric, splenic, hepatic  
   23 Retroaortic  
   4 Glands of small intestine: mesenteric  
   6 Glands of large intestine: colic, rectal  
 .467 Lymph glands of upper extremity  
   1 Axillary  
   2 Epitrochlear or supratrochlear and other glands  
   5 Pectoral  
 .468 Lymph glands of lower extremity  
   1 Inguinal  
   2 Femoral  
   3 Popliteal  
   4 Anterior tibial  
 .47 Carotid gland or body  
 .48 Coccygeal gland  
 .6 Genito-urinary system      Brests  
 .61 Kidneys  
     Class here urinary organs in general  
   .615 Uriniferous tubules  
 .617 Ureter  
   .618 Pronephros  
   .619 Mesonephros  
 .62 Bladder      Urethra  
 .621 Bladder  
   3 Urethral openings  
 .622 Ligaments: urachus  
     For pedicle of allantois see also embryology, 611.01382  
 .623 Urethra  
     For female urethra see 611.674  
   1 Prostatic part  
     Verumontanum or caput gallinaginis  
     Sinus pocularis or uterus masculinus  
   2 Membranous part  
   3 Spongy, cavernous or penial part  
   4 Lacunae      Littre's glands  
 .627 Bulbo-urethral or Cowper's glands  
 .629 Urogenital sinus

## Male genital organs

- Testicles or testes
- 1 Seminiferous tubules
    - Straight tubules, tubuli recti or vasa recta; coni vasculosi or vasa efferentia
  - 3 Tunics of testes: vaginalis, albuginea, vasculosa
  - 5 Mediastinum testis or Highmore's body; rete testis of Haller or Haller's network
- .632 Epididymis
- .633 Appendixes of testes
  - Vasa aberrantia; hydatids of Morgagni, or pedunculated bodies; paradidymis or organ of Giralde's
- .634 Vas deferens
- .635 Ejaculatory ducts
- .636 Seminal vesicles
- .637 Prostate
- .638 Scrotum
  - Dartos
- .639 Spermatic cord
  - Infundibula; intercolumnar or spermatic and cremasteric fascia
- .64 Penis
- .641 Root
  - .642 Body Prepuce
  - .643 Glans penis, or acorn
  - .644 Meatus
  - .645 Corpora cavernosa
  - .646 Corpus spongiosum
  - .647 Bulb of urethra

## Female genital organs Adnexa

- .65 Ovaries
- 1 Medullary substance Stroma
  - 2 Graafian follicles
    - Capsule of ovum, membrana granulosa, discus proligerus
  - 3 Cortical layer
- .652 Corpus luteum or corpora lutea
  - See also embryology 611.01317
- .656 Fallopian tubes
- .66 Uterus
- .662 Endometrium
  - .664 Cornua
  - .665 Body or parenchyma
  - .666 Neck, cervix
  - .667 Ligaments
    - For placenta see embryology, 611.01385 and gynecology 618.36
  - 2 Broad or lateral
  - 3 Round Canal of Nuck
  - 4 Uterosacral and uterolumbar Pouch of Douglas
    - Posterior ligaments
  - 6 Epoophoron, parovarium, or organ of Rosenmüller Gärtner's duct
  - 7 Paroophoron
- .669 Müller's duct Oviducts of lower vertebrates
  - Class oviducts of lower vertebrates in 591.46 except in comparison with human organs

## .67 Vagina Vulva

- .671 Vagina
- .672 Hymen Vestibulum
- .673 Vulva
  - 1 Mons veneris 2 Labia majora 3 Labia minora
- .674 Female urethra
- .675 Clitoris Bulbus vestibuli
- .677 Bartholini's, or vulvo-vaginal glands

## .69 Breasts

- .691 Nipple and areola Glands of Montgomery
- .692 Acini, acinous glands
- .693 Galactophorous or lactiferous ducts

611.7	<b>Motor and integumentary systems</b>
.71	<b>Osteology    Bones    Skeleton</b>
.711	<b>Spinal colum</b>
1	Cervical vertebrae
2	Atlas
3	Axis or epistropheus
5	Thoracic or dorsal vertebrae
6	Lumbar vertebrae
7	Sacrum or sacral vertebrae
8	Coccyx
.712	<b>Ribs    Thorax</b>
5	Costal cartilages
.713	<b>Sternum or breast bone</b>
	Manubrium; gladiolus; xiphoid or ensiform
.714	<b>Bones of head    Skull</b>
1	Calvaria or cerebral cranium
	Sutures, fontanelles, supernumerary or Wormian bones
3	Base of cranium
6	Orbits
7	Nasal cavity    Inferior conchae
.715	<b>Cranium, cranial bones</b>
1	Occipital
2	Sphenoid
3	Temporal
4	Parietal
5	Frontal
6	Ethmoid
7	Lacrimal
8	Nasal
9	Vomer
.716	<b>Bones of face or visceral cranium</b>
1	Maxillary, upper jaw or superior maxillary
2	Palate
3	Malar or zygomatic
4	Mandible, lower jaw or inferior maxillary
41	Alveolar limb
43	Ramus of mandible
5	Hyoid
6	Skeleton branchiae    Better class in 591.4
.717	<b>Bones of upper extremity</b>
1	Scapula, shoulder blade
	Shoulder girdle as a whole    Acromion
2	Clavicle or collar bone
3	Coracoid process
4	Humerus
5	Radius
6	Ulna
7	Carpus, carpal bones or wrist bones
71	Scaphoid or navicular
72	Semilunar, or os lunatum
73	Cuneiform, or os triquetrum
74	Pisiform
75	Trapezium, or os multangulum majus
76	Trapezoid or " " minus
77	Os magnum, or os capitatum
78	Unciform or hook or os hamatum
79	Central
8	<b>Metacarpus, metacarpal bones</b>
9	<b>Phalanges of hand</b>
91	Basilar or proximal phalanges
93	Middle phalanges
95	Ungual or distal phalanges
99	Sesamoid

**Bones of lower extremity**

For pelvis see 611.96

- 1 **Hip bone, or os coxae or innominatum**  
Acetabulum or cotyloid cavity
- 11 Ilium
- 12 Ischium
- 13 Pubis
- 4 **Femur**
- 45 Patella See also 611.7283 Knee joint and 611.983 Knee
- 5 **Tibia**
- 6 **Fibula**
- 7 **Tarsus**
- 71 Astragalus, ankle bone, or talus
- 73 Calcaneum, heel, or os calcis
- 75 Cuboid
- 76 Scaphoid or navicular
- 78 Cuneiform or wedge bones  
Internal or first, middle or second, external or third cuneiform
- 8 **Metatarsal bones**
- 9 **Phalanges of foot**
- 91 Basilar or proximal phalanges
- 93 Middle or second "
- 95 Ungual or third "
- 99 Sesamoid bones

**.72 Ligaments Joints****.721 Articulations of vertebrae and of cranium**

- 1 Occipito-atlantal and occipito-axial
- 3 Intervertebral articulations
- 5 Atlanto-axial or atlo-axoid and atlanto-odontoid
- 6 Lumbosacral
- 7 Sacrococcygeal
- 8 Coccygeal

**.722 Costovertebral articulations****.723 Costosternal, costochondral, chondrosternal, interchondral, intersternal****.724 Jaw joint, temporomandibular, temporomaxillary or mandible joint****.727 Articulations of upper extremity**

- 1 **Sternoclavicular joint and costoclavicular or rhomboid ligament**
- 2 **Articulations of shoulder**
- 21 Shoulder joint
- 24 Acromioclavicular or scapuloclavicular joint Coracoclavicular and coracoacromial ligaments
- 3 **Elbow joint**
- 31 Humeroulnar joint
- 33 Humeroradial joint
- 34 Superior radioulnar or radioulnaris proximalis
- 4 **Wrist joint**
- 41 Inferior or distal radioulnar joint
- 44 Radiocarpal
- 5 **Intercarpal articulation**
- 54 Middle carpal joints
- 6 Carpometacarpal articulations
- 7 Intermetacarpal "
- 8 Metacarpophalangeal "
- 9 Phalangeal or finger joints

**Articulations of lower extremity**

- 1 Articulations of pelvis  
Sacroiliac and pubic, or symphysis ossium pubis; sacrosclatiac ligament or symphysis sacrococcygea
- 2 Hip joint, or articulo coxae  
Iliofemoral, Y or Bigelow's ligament; ligamentum teres
- 3 Knee joint  
31 Crucial or femorotibial ligaments  
33 Semilunar fibrocartilages  
34 Anterior or ligamentum patellae  
38 Tibiofibular ligaments
- 4 Ankle joint  
41 Inferior tibiofibular joint  
44 Tibiotarsal ligaments
- 5 Intertarsal ligaments  
51 Astragalocalcaneal, calcaneoastagaloid or talocalcaneum; astragaloscaphoid; calcaneoscaphoid or calcaneonavicular ligaments  
53 Calcaneocuboid ligaments  
54 Mediotarsal articulations  
55 Cuboidcuneiform "  
56 Scaphoidcuboid or cubonavicularis, scaphoidcuneiform or cuneonavicularis articulations  
58 Intercuneiform articulations
- 6 Tarsometatarsal articulations
- 7 Intermetatarsal "
- 8 Metatarsophalangeal "
- 9 Toe joints

**.729****Classes of joints**

- 2 Synarthrosis or fixt joint
- 4 Amphiarthrosis or mixt joint
- 6 Diarthrosis or movable joint  
61 Arthrodia or gliding joint  
62 Condylarthrosis or knuckle joint  
63 Enarthrosis or ball and socket joint  
64 Ginglymus or hinge joint  
65 Trochoid or pivot joint

**.73****Muscular system Myology****.73I****Dorsal muscles**

- 1 Spinohumeral or humerospinal muscles  
11 Trapezius  
12 Latissimus dorsi  
13 Rhomboid  
14 Levator scapulae
- 2 Spinocostal or serrati posteriores
- 3 Spinodorsal  
Sacrospinalis, lumbosacral, erector spinae, transversalis cervicis  
31 Iliocostal  
36 Longissimus dorsi
- 4 Splenius and complexus
- 5 Spinalis dorsi
- 6 Transversospinales  
61 Semispinalis  
65 Multifidus  
68 Rotatores
- 7 Breves spinae  
71 Interspinales  
76 Intertransversarii
- 8 Oblique muscles of head
- 9 Recti capitis posterior and lateralis

## 611.732

**Muscles of head**

See also 611.7318-9 and 611.7337-8

- 1 Platysma myoides  
 2 Occipitofrontalis or epicranial  
 3 Muscles of nose  
   Pyramidalis nasi, compressor nasi, compressor narium minor,  
   depressor alae nasi or myrtiform, dilatores nasi  
 4 Muscles of ear   Attrahens, attollens, retrahens  
 5 Palpebral and orbital muscles of eye  
   Orbicularis palpebrarum, or sphincter of eyelids; corrugator super-  
   cillii; levator palpebrae; levator palpebrae superioris; tensor tarsi  
   See also 611.8461  
 6 Buccal muscles  
   Buccinator, orbicularis oris, levator anguli oris, levatores labii  
   superioris, levator labii superioris alaeque nasi, zygomatic, levator  
   labii inferioris, levator menti, depressor labii inferioris or quadratus  
   menti; depressor angulae oris or triangularis menti; risorius, or  
   Santorini's muscle  
 7 Muscles aiding mastication and deglutition  
 71 Masseter  
 72 Temporal  
 73 Pterygoid  
 75 Muscles of palate and pharynx  
 76 Palate  
   Levator palati, tensor palati, azygos uvulae, palatoglossus, pala-  
   topharyngeus, salpingopharyngeus  
 78 Pharynx  
   Inferior, superior and middle constrictors, stylopharyngeus

## .733

**Muscles of neck**

- 1 Sterno-cleido-mastoid  
 2 " hyoid  
 3 Omohyoid  
 4 Sternothyroid  
 5 Thyrohyoid  
 6 Longus colli  
 7 Rectus capitis anticus major, or longus capitis  
 8 Rectus capitis anticus minor, or rectus capitis anterior  
   For rectus capitis lateralis see 611.7319  
 9 Scaleni: anticus, medius and posticus

## .734

**Hyoid muscles**

Depressors of lower jaw or elevators of hyoid. For tongue see 611.313

- 1 Digastric  
 4 Stylohyoid  
 6 Mylohyoid  
 8 Geniohyoid

## .735

**Thoracic muscles**

- 1 Pectoralis major  
 2 " minor  
 3 Subclavius  
 4 Levatores costarum  
 5 Serratus magnus or serratus anterior  
 6 Intercostal  
 7 Subcostal  
 8 Transversus thoracis or triangularis sterni

## .736

**Abdominal and coccygeal muscles**

- 1 Rectus abdominis  
 2 Pyramidalis abdominis  
 3 Oblique abdominal  
 6 Cremaster  
 7 Transversalis or transversus abdominis  
 8 Quadratus lumborum  
 9 Coccygeal

**Muscles of upper extremity**

- Shoulder or axillary**
- 1  
11 Deltoid  
12 Supraspinatus  
13 Infraspinatus  
14 Teres minor  
15 Teres major  
16 Subscapular
- 2 Arm**
- 21 Biceps brachii, or biceps flexor cubiti  
22 Coracobrachialis  
23 Brachialis (anticus)  
24 Triceps brachii, or triceps extensor cubiti  
25 Anconeus
- 3 Forearm**
- 4 Pronator muscles**
- 41 Pronator radii teres  
45 " quadratus
- 5 Flexors of forearm**
- 51 Flexor carpi radialis  
52 Palmaris longus  
53 Flexor carpi ulnaris  
54 " digitorum sublimis  
55 " " profundus  
56 " pollicis longus
- 6 Extensors and supinators**
- 61 Brachioradialis  
62 Extensor carpi radialis longus  
63 " " " brevis  
64 " " ulnaris  
65 Extensors of fingers, or extensores digitorum  
66 Supinator  
67 Abductor pollicis longus  
68 Short and long extensors of thumb, or extensores pollicis brevis et longus  
69 Extensor of index finger, or extensor indicis proprius
- 7 Muscles of hand**
- 71 Lumbricales  
72 Palmaris brevis  
73 Short abductor of thumb, or opponens pollicis  
Short flexor of thumb, or flexor brevis pollicis  
Adductor pollicis  
76 Muscles of little finger  
Abductor digiti quinti (or minimi) brevis; opponens digiti quinti; short flexor of 5th or little finger, or flexor brevis digiti minimi
- 79 Interosseous muscles

**Muscles of lower extremity**

- Hip and nates**
- 1 Iliopsoas  
11 Iliacus  
12 Psoas major and minor  
13 Gluteal  
14 Tensor fasciae latae, tensor fasciae femoris or tensor vaginae femoris  
15 Piriformis  
16 Obturator internus  
17 Gemelli or gemini  
18 Quadratus femoris  
19



## Thigh muscles

- 21 Sartorius  
 22 Quadriceps femoris or quadriceps extensor femoris  
     Rectus femoris, vastus externus, vastus internus and crureus or  
     vastus intermedius  
 225 Articularis genu, or suberureus  
 23 Pectineus  
 24 Adductors: longus, brevis, magnus and minimus  
 25 Gracilis  
 26 Obturator externus  
 27 Biceps femoris or biceps flexor cruris  
 28 Semitendinosus  
 29 Semimembranosus

## Leg

- 3  
 4 Anterior muscles  
 41 Anterior tibial or tibialis anticus  
 42 Extensor digitorum longus  
 43 " hallucis " or proprius  
 46 Peronaeus tertius  
 5 Other muscles of leg  
 51 Peronaeus longus  
 52 " brevis  
 53 Gastrocnemius  
 54 Soleus, triceps surae  
 55 Plantaris  
 56 Popliteus  
 57 Posterior tibial  
 58 Flexor digitorum longus  
 59 " hallucis "

## Muscles of foot

- 7 Back of foot  
 8 Extensor brevis digitorum  
     Sole of foot or plantar region  
     Adductor hallucis (obliquus and transversus), adductor digiti  
     minimi, abductor hallucis; flexor hallucis brevis, flexor  
     digitorum brevis, flexor accessorius, flexor digiti minimi  
     brevis, lumbricales, interosseous muscles  
 .739 Electric organs Better clast in comparativ anatomy

## Tendons Fasciae

May be divided like 611.73; e. g. Achilles tendon 611.74854

## Bursae Sheaths of tendons

.75 Hed

.751 Neck

.752 Back

.753 Shoulder

.754 Upper extremity

.757 Lower "

.76 Connectiv tissue See also 611.0182 Histology of connectiv tissue

## Skin Glands of skin

.771 Cuticle, scarf skin or epidermis  
     Horny and Malpighian layers

.772 Glands of skin

.773 Sebaceous

.774 Sudoriferous or swet

.775 Ciliary glands

.776 Circumanal "

.777 Ceruminous "

.778 Corium, cutis vera, true skin or dermis

Reticular and papillary layers

5 Pigmentation

.779 Subcutaneous areolar tissue, tela subcutanea or panniculus adiposus



- 611.814      **Diencephalon, diencefal, thalamencephalon or interbrain**
- 1      Hypothalamus or subthalamic tegmental region  
           Nucleus of Luys or nucleus hypothalamicus  
           Postcommissure or posterior commissure
- 2      Corpora albicantia, albicans, or corpus mammillare  
           Bundle of Vicq-d'Azyr, or fasciculus thalamomammillaris
- 3      Hypophysis  
           Hypophysi cerebri, pituitary body or somatic brain  
           Tuber or tuber cinereum      Infundibulum
- 4      Optic tract      Optic chiasm or commissure
- 5      Epithalamus      Pinea, pineal body, conarium or epiphysis  
           Habenula, habena, or pedunculus conarii
- 6      Geniculate bodies, or geniculum      Metathalamus
- 7      Thalamus or optic thalamus  
           Thalamic radiation: ansa peduncularis, ansa lenticularis  
           For Nissl's bodies see 611.01882
- 8      Third ventricle, or diacele  
           Porta or foramen of Monro, or foramen interventriculare
- .815      **Mesencephalon, midbrain or mesencefal**
- 3      Quadrigeminum  
           Corpora or tubercula quadrigemina      Quadrigeminal arms
- 4      Pedunculi or crura cerebri, crura or crus  
 41      Substantia nigra (Sömmering) or intercalatum  
           See also nucleus of Luys 611.8141
- 42      Foot of peduncle, basis or pes pedunculi, or crusta
- 43      Tegmentum
- 44      Red nucleus, nucleus ruber, or rubrum
- 5      Nuclei of oculomoto and trochlear nervs
- 6      Aqueduct of Sylvius, aqueductus cerebri, or mesocele
- .816      **Isthmus rhombencephali**
- 3      Valv of Vieussens, or superior medullary velum
- 4      Superior cerebellar peduncles  
           Prepeduncles, brachium conjunctivum cerebelli, or crura ad cerebrum
- 7      Lemniscus: mesial and lateral fillets
- .817      **Metencephalon or epencephalon, epencefal or hindbrain**
- Pons (Varolii)**
- 1      Cerebellum  
 11      Lobes, fissures, valv of Tarinus, velum medullare posterius, or kilos
- 13      Cerebellar centers of gray matter      Nuclei olivaris superiores: roof nuclei, dentate nuclei, dentatum, etc.
- 15      White substance of cerebellum      Arbor vitae
- 3      Pons Varolii      Tegument      For reticula see 611.8226
- 4      Nuclei of trigeminus system  
 41      Nucleus motorius or motor nucleus of 5th nerv
- 42      Nucleus of spinal tract or sensory nucleus of 5th nerv
- 5      Nucleus or nidus of abducent nerv
- 6      "      "      "      "      facial nerv
- 68      Salivary nucleus
- 7      Cochlear nidi or nucleus of cochlear nerv  
           Ventral root of 8th nerv
- 76      Trapezium or trapezoid body
- 77      Nucleus of superior olivary body
- 78      Acoustic striae, striae acusticae or medullares
- 8      Vestibular nidi or nucleus of vestibular nerv  
           Dorsal root of 8th nerv

- 611.818 **Myelencephalon, metencefal, medulla, bulb or afterbrain, postoblongata or medulla oblongata**
- 1 Pyramids      Pyramidal decussation
  - 2 Dorsal colum, posterior fibers, or funiculi dorsales  
Arcuate fibers      Restis or restiform body  
    Fasciculus of Rolando, cuneatus and gracilis
  - 3 Lateral fibers      Oliva or olivary bodies  
    Anterolateral ground bundle or fasciculus proprius anterolateralis;  
    anterolateral cerebellar tract or fasciculus anterolateralis superficialis
  - 4 Interolivary stratum, fillet or lemniscus
  - 5 Fourth ventricle or metepicele  
    Metapore or foramen of Magendie      Foramina of Luschka, Key  
    and Retzius      Obex      Lingula      Calamus scriptorius
  - 6 Nucleus of glossopharyngeal system      Solitary tract
  - 7 Nuclei of vagus and accessory nervs
  - 75      Ambiguous nucleus
  - 78      Dorsal nucleus of vagus
  - 9 Nucleus of hypoglossal system or hypoglossal nidus
- .819 **Meninges and cerebral meninges**
- 1 Pia mater or pia
  - 2 Telae choroideae, velum interpositum, choroid plexus
  - 3 Arachnoid villi  
    Glandulae Pacchioni, Luschka's villi or granulations
  - 4 Cisterns, or subarachnoid cisterns
  - 5 Dura mater, or dura      Tentorium and falx cerebelli  
    Falx cerebri
- 82 **Spinal cord, or myel**
- 821 **Enlargements or intumescencia; general structure**
- 2 Cervical cord or myel, pars cervicalis
  - 3 Thoracic or dorsal cord or myel, pars thoracalis
  - 4 Lumbar cord or myel, pars lumbaris
  - 5 Sacral cord
  - 6 Terminal cone, or conus (medullaris) Filum      Cauda (equina)
  - 8 Grooves and fissures, sulci and fissurae
- .822 **Gray substance or matter, entocinerea or cinerea      Gray cornua or colum**
- 1 Anterior or ventral colum or cornu or funiculus anterior
  - 2 Posterior or dorsal      "      "      "
  - 3 Clarke's colum, nucleus dorsalis or Stilling's nuclei
  - 4 Gelatinosa or gelatinous matter, substantia cinerea gelatinosa      Substantia spongiosa
  - 6 Reticula or formatio reticularis
- .823

- 611.824 **White substance, or alba**
- .825 **Anterolateral colum**  
 Anterior plus lateral columns
- 2 **Pyramidal tract or bundle or fasciculus cerebrospinalis**  
 Direct or uncrossed tract, fasciculus cerebrospinalis anterior, or fasciculus  
 Cross pyramidal tract, or cerebrospinalis lateralis
- 3 **Direct cerebellar tract, or dorsolateral cerebellar tract**
- 4 **Gower's tract, cerebellar path of anterior funiculus, or fasciculus anterolateralis superficialis ascendens or anterolateral ascending cerebellar tract**
- 5 **Fasciculus sulcomarginalis, or marginal tract of Spitzka and Lissauer**
- 6 **Lateral colum or anterolateral descending cerebellar tract or colum of Marchi and Lowenthal**
- 7 **Anterolateral ground bundle or fasciculus proprius anterolateralis**
- 8 **Anterior or ventral commissure**
- .826 **Posterior or dorsal columns**
- 1 **Ascending fibers**  
 Tracts of Burdach (posterolateral or cuneatus) and of Goll (posteromedian or gracilis) and fasciculus of Rolando
- 5 **Descending fibers** Comma tract in Burdach's colum
- 8 **Radicular fibers**
- 9 **Posterior or dorsal commissure**
- .827 **Roots of nerves**  
 Works tracing nerv roots into spinal cord; for macroscopic studies on nerv roots see 611.832
- 1 **Anterior or ventral roots**
- 2 **Posterior " dorsal "**
- .828 **Spinal canal Ependyma or endyma**  
 Rhomboidal sinus Reissner's fibers
- .829 **Spinal membranes, or meninges spinales**
- 1 **Spinal pia mater**
- 3 " **arachnoid**
- 5 " **dura mater**
- .83 **Peripheral nervous system Nervis**
- .831 **Cranial nerves and ganglia**
- 1 **Olfactory, or 1st cranial**
- 2 **Optic, or 2d cranial**
- 3 **Motoroculi, 3d cranial or oculomoto**
- 4 **Trochlear, pathetic, or 4th cranial**
- 5 **Trifacial, trigeminus, or 5th cranial**  
 Large or great superficial petrosal branch
- 52 **Ophthalmic nerv of Willis**
- 54 **Superior maxillary nerv or maxillary nerv**
- 54.2 **Infraorbital branch**
- 56 **Mandibular or inferior maxillary**
- 6 **Abducent, external motoroculi, oculomoto, or 6th cranial**
- 7 **Facial, 7th cranial nerv, or portio dura**  
 Other collateral branches
- 73 **Terminal branches**
- 74 **Pars intermedia of Wrisberg (nervus intermedius) Chorda tympani**
- 75 **Auditory, acoustic or 8th nerv**
- 8 **Cochlear nerv or path, or central auditory path**
- 81 **Vestibular path or nerv**
- 85 **Glossopharyngeal or 9th nerv**
- 9 **Pneumogastric, vagus or 10th nerv**
- 91 **Parietal branches: auricular and lateral nervs**
- 91.1 **Pharyngeal branches**
- 91.4 **Superior cardiac nervs**
- 91.5 **Superior laryngeal nerv**
- 91.6 **Inferior or recurrent laryngeal nerv**
- 91.7 **Pulmonary branches**
- 91.8 **Esophageal and gastric branches**
- 92 **Spinal accessory or 11th nerv**
- 93 **Hypoglossal or 12th nerv**

**611.832****Spinal nerves**

Including in 5-6 microscopic studies on nerv roots. See also 611.827

- 1 Dorsal or posterior branches
- 2 Ventral or anterior "
- 5 Dorsal or posterior roots See also 611.8272
- 6 Ventral or anterior " See also 611.8271

**.833****Cervical nerves**

- 1 Dorsal or posterior branches of cervical nerves Small and large suboccipital nerves
- 2 Ventral anterior branches of cervical nerves
- 3 Cervical plexus
- 3<sup>2</sup> Large auricular nerv
- 33 Cutaneous nerv of neck
- 34 Supraclavicular nerves
- 36 Phrenic or internal respiratory nerv of Bell
- 4 Brachial plexus
- 41 Supraclavicular part
- 47 Infraclavicular part
- 5 Median nerv
- 6 Ulnar or cubital nerv
- 7 Radial nerv
  - Musculo-spiral
- 8 Musculocutaneous nerv
- 9 Antibrachii ulnaris
  - Cutaneous brachii medialis, or nerv of Wrisberg

**.834****Thoracic nerves**

- 1 Posterior branches
- 2 Anterior " Intercostal nervs

**.835****Lumbar and sacral nerves**

- 1 Posterior branches
- 2 Anterior "
- 3 Lumbosacral plexuses
- 4 Lumbar plexus
- 41 Great iliohypogastric nerv
- 42 Ilioinguinal
- 43 Genitofemoral or genitocrural
  - 44 Lateral or cutaneous nerv of thigh
- 5 Femoral nerv or anterior crural nerv (femoralis)
- 51 Middle cutaneous nerv
- 52 Internal " "
- 53 Muscular branches of posterior division of anterior crural nerv
- 54 Long or internal saphenous nerv
- 6 Obturator nerv
  - 61 Accessory obturator, or accessory anterior crural nerv of Winslow
- 68 Lumbosacral cord
- 7 Sacral or sciatic plexus
- 71 Superior gluteal
- 72 Inferior "
  - 73 Small sciatic nerv (cutaneus femoris posterior)
- 8 Great sciatic nerv or ischiadicus
  - 81 External popliteal, or peroneus communis or peroneal
  - 82 Sural or lateral cutaneous branch, or cutaneus surae lateralis
  - 84 Musculocutaneous or superficial peroneal
  - 86 Anterior tibial nerv or deep peroneal
  - 87 Internal popliteal or tibial
  - 88 Sural or plantar nerves
- 9 Genital, pudic or pudendal plexus
  - 93 Collateral branches
  - 95 Pudic nerv

**.836****Coccygeal plexus Coccygeal nerves**

611.839

## Sympathetic system

- 1 Cervical and cephalic part
- 11 Superior cervical ganglion
- 12 Internal carotid nerv and plexus
  - Cavernous plexus
- 13 External carotid nerv and plexus
- 14 Common " plexus Superior cardiac nerv
- 15 Middle " ganglion Middle " "
- 16 Inferior cervical "
- 17 " cardiac nerv Cardiac plexus

2 Thoracic part of gangliated cord

3 Abdominal and pelvic part of sympathetic system

- 3<sup>1</sup> Solar or epigastric plexus or plexus coeliacus

.84 Eye Organ of vision

See also 611.7146 Orbit, including capsule of Ténon

.84I Fibrous coats or tunics of eye

- 1 Conjunctiva
- 3 Cornea
- 5 Sclerotic coat or sclera
  - Canal of Schlemm Spaces of Fontana

.842 Vascular coats of eye Uveal tract

- 1 Iris Pupil
- 3 Choroid
  - Tapetum
- 5 Ciliary body, muscle and processes

.843 Retina

Optic disc; macula lutea For optic nerv see 611.8312

.844 Refracting media

- 1 Crystallin lens
- 2 Zonule of Zinn or zonula ciliaris
- 7 Vitreous humor Posterior chamber
  - Hyaloid membrane Hyaloid or Stilling's or Cloquet's canal
  - Canal of Petit
- 9 Aqueous humor Anterior chamber

.846 Accessory organs of eye

- 1 External muscles, musculi oculi
- 4 Tear apparatus
- 7 Lacrimal gland
- 8 " canals and puncta
- 9 " sac and nasal duct

.847 Eyelids or palpebrae

- Canthi
- 5 Eyelashes or cilia
- 6 Eyebrows or supercilia

.85 Ear Organ of hearing

See also 611.8318 Auditory nerv

.851 Internal ear

.852 Membranous labyrinth

- 1 Cochlea, scala media, or ductus cochlearis
- 2 Organ of Corti, or Corti's fibers
- 4 Sacculæ
- 5 Utricule
- 6 Semicircular canals

.853 Osseous labyrinth

Vestibule, semicircular canals, cochlea, modiolus or columella

- 611.854 **Middle ear or tympanum**  
 Atrium or tympanic cavity proper  
 5 Attic  
 7 Mastoid cells  
 .855 Membrana tympani, or drumhead  
 .856 Eustachian tube or tuba auditiva  
 .857 Bones of ear  
 Malleus or hammer; incus or anvil; stapes or stirrup; muscles of  
 tympanum, stapedius and tensor tympani
- .858 **External ear**  
 Meatus, pinna
- .86 **Organs of smell; olfactory organs**  
 .87 " " taste  
 .88 " " touch and senses in general  
 .889 Organa lateralia
- .89 **Ganglions**  
 Class ganglions here if separately treated
- .891 **Cranial ganglions**  
 5 Semilunar ganglion or Gasserian  
 52 Ciliary "  
 54 Sphenopalatin or Meckel's ganglion  
 56 Otic or Arnold's submaxillary ganglion  
 7 Geniculate ganglion  
 81 Spiral or Corti's ganglion  
 85 Vestibular ganglion  
 9 Petrosal and superior glossopharyngeal ganglion  
 91 Jugular and nodose ganglions  
 .892 Ganglions of spinal nerves  
 See also 611.832 Spinal nerves  
 .899 Sympathetic ganglions  
 For chromaffin tissue see 611.4
- .9 **Regional anatomy**
- .91 **Head**
- .92 **Face**
- .93 **Neck**
- .94 **Thorax**
- .942 **Front or pectoral**
- .946 **Back or dorsal**
- .95 **Abdomen**
- .951 **Epigastric region**
- .955 **Mesogastric** "  
 .957 **Hypogastric** "  
 .959 **Lumbar** "
- .96 **Pelvic and perineal region**  
 True pelvis  
 .962 False "  
 .964 1 Inlet 2 Cavity 3 Outlet
- .966 **Position and size**
- .968 **Difference between male and female pelvis**



611.97

Upper extremities

- .971 Shoulder or axilla
- .972 Arm
- .973 Elbow
- .974 Forearm
- .975 Wrist
- .976 Hand
- .977 Fingers

.98 Lower extremities

- .981 Hip Nates Sulcus inguinalis
  - 1 Hip
  - 2 Nates
  - 3 Sulcus inguinalis
  - 4 Inguinal canal
  - 5 Crural or femoral canal
- .982 Thigh
- .983 Knee Popliteal space
- .984 Leg
- .985 Ankle
- .986 Foot
- .987 Toes
- .99 Tail

# 612 Physiology

## SUMMARY

- 612.013 Vitalism
- .014 Cells and organisms
- .015 Physiologic chemistry
  - .1 Blood and circulatory system
  - .2 Respiration
  - .3 Digestion
  - .4 Glandular system
  - .5 Animal heat
  - .6 Reproduction Development
  - .7 Motor and vocal apparatus
  - .8 Nervous system
- .01 General theory of physiology
  - .0111 Notion, definition, nature
  - .0112 Classification, division
  - .0114 Terminology, notation, symbols
  - .0118 Methods
  - .012 Physiologic theories and generalities
- .013 **On the nature of life and death Vitalism**

This place is provided for the physiologist who prefers to keep related topics with his subjects. Usually the heds under this number are better clast in their broader relations; i. e. see 577.2 for the nature of life; 577.7 for the nature of death; 612.67 for death as a stage in vital history

  - 1 Signs of real death See 577.7
  - 2 Experiments on executed persons
  - 4 Theories of life and the soul Vitalism
    - See metaphysics, 128
  - 5 Comparisons of animals and plants See 577.5
  - 6 Organism and inanimate matter See 577.1
  - 7 Vital energy See 577.6
  - 8 Experiments on surviving organs See 577.6
- .014 **General physiology of cells and organisms**

See 576 and note under 612.013

  - 1 **Chemistry of cells**
    - 11 **Aerobic and anaerobic cells**
  - 2 **Physiologic morphology of cells**
    - 21 **Functions of protoplasm**
    - 22 " " nucleus
    - 24 " " chromosome bodies Chromatolysis
    - 26 " " centrosome
  - 3 **Physiologic characteristics of cells**
    - 31 Irritability in general
    - 32 Fatigue
  - 4 **Influence of environment on cells and organisms**
  - 41 **Mesology**
    - Effects of barometric pressure
      - See also 612.27 Influence of barometric pressure on living beings
    - 42 **Action of electricity Electrophysiology**
      - 421 **Electrophysiologic technic**
        - See also 615.84 Electrotherapy
      - 2 Static electricity
      - 4 Dynamic electricity
      - 5 Alternating currents
      - 7 Electric measurements
      - 8 Special instruments
        - 1 Electrodes 2 Telephone, microphone 6 Galvanometers
    - 422 Electric resistance Conductibility

- Electric phenomena of organisms
  - For electric phenomena of muscles see 612.743, of nerves and muscles see 612.813
- 1 Theory of electric phenomena
- 2 Negativ variation
- 3 Electrotonus
- 4 Electric phenomena of tissues in repose and in action
- 424 Action of electricity on organisms
  - Everything concerning effect of electricity on function may be clast here by adding 0 and dividing like 612; e. g. action of electricity on red corpuscles 612.0144240111, as .111 is the subdivision of 612 meaning red corpuscles. Action of electricity on bile 612.0144240357, as .357 means bile
- 2 Action of static electricity
  - 3 " " atmospheric "
  - 4 " " dynamic "
  - 5 " " alternating currents
- 425 Deth by electric shock; by lightning
- 426 Magnetic action
- 427 Galvanotropism
- 428 Electrotherapy from physiologic point of view
- 43 Action of heat and cold See also 612.59
- 44 Action of light See also 612.843
- 445 Phosphorescence
- 447 Heliotropism Phototropism
  - See also 615.831 Phototherapy
- 45 Action of sound and its vibrations
  - See also 612.85876
- 46 Poisons and chemic substances
  - Poisons and definit chemic substances are preferably clast in 615.7, general toxicology in 615.9. This number is for topics of special physiologic interest
- 461 Effects of water
  - 1 Revisiscent animals
  - 2 Hydrations
  - 3 Quantity of water in organisms and tissues
- 462 Physicochemic forces
  - 1 Osmosis
  - 2 Molecular concentration in organic fluids Cryoscopy
    - Subdivisible with 0 like 612; e. g. Cryoscopy of gastric juice 612.01446222032
  - 3 Relation between secretion and osmotic pressure
  - 4 Relation between osmosis and electric action: ions
  - 5 Colloid substances: coagulation, agglutination, etc.
    - See also 612.398133 Theory of histologic conservation
  - 6 Reaction, acid or alkaline
  - 7 Viscosity
  - 8 Superficial tension
  - 9 Other physicochemic forces
- 463 Action of mineral salts on organisms
  - " " air, normal and abnormal; of oxygen and ozone
  - " " anesthetics
  - " " antiseptics
- 467 Chemotaxis Chemotropism
- 469 Action of other chemic forces
- 47 Action of mechanical forces
  - 477 Geotropism
  - 478 Thigmotaxis
- 48 Other physical forces
  - 481 Various rays
    - 1 Physiologic effect of X rays
      - To express effect of X rays on a specific organ or tissue, add 0 and subdivide like 612; e. g. effect of X rays on sight 612.0144811084
    - 4 Effect on lower organisms
  - 482 Effect of radioactiv substances; Becquerel rays
  - 483 Production and action of N rays

612.015	Physiologic chemistry in general
1	Ferments
11	Oxydants      Reducing ferments
12	Hydrolytic
13	Proteolytic
14	Lipolytic
15	Amyolytic and sucroclastic
16	Glycolytic
161	Alcoholic
2	Normal composition of the body and its products See also 612.3926, 612.396-.398
21	Extracts of organs
3	Metabolism
31	Of mineral substances See also 612.3926
32	Of carbon See also 612.22
33	Of nitrogen See also 612.46123
34	Of substances foren to the normal organism Elimination of poisons Most material will be clast under 615.7 and its subdivisions See also special organs
346	Metabolism of nonnitrogenous substances
347	"    "    crystallizable nitrogenous substances
348	"    "    albuminoids
349	"    after deth      Autolysis Subdivisible with o like 612; e. g. autolysis of the liver 612.015349035
35	Influence of temperature on metabolism See also 612.59
36	Reductions, hydrations and syntheses in organisms
37	Influence of other agents on metabolism
38	Influence of nervous system on metabolism
39	Metabolism in disease
4	Staining substances and pigments
.016	Means of attack and defense Comparativ physiology; usually better clast in 591.57
1	Autotomy
2	Mimicry
3	Physiology of parasites
.019	Comparativ physiology May be subdivided like 590 to signify kind of animal; e. g. Reptils being 598.1, comparison of reptil and human physiology is 612.01981 Class here only books written distinctly from physiologist's point of view      Other works on comparativ zoology are better in 591.1
	Form divisions
.02	Compendis
.03	Dictionaries      Cyclopedias
.04	Essays      Addresses
.05	Periodicals
.06	Societies      Clubs
.07	Study and teaching
.077	Vivisection See also ethics, 179.4, and laws 614.22
.08	Polygrafy
.09	History

## 612.I Blood and circulatory system

.109 History of circulation of blood

.11 General properties of blood

.111 Red corpuscles

I Chemic composition

11 Hemoglobin and oxyhemoglobin

14 Carboxyhemoglobin

Action of CO on blood, carbon monoxid hemoglobin

15 Spectroscopy of blood

16 Methemoglobin and derivates

Hematin or hematoxylin, hematoidin, globin, hemin or Teichmann's crystals, hematochromogen, hematoporphyrin

17 Isotony of corpuscles Osmotic permeability

19 Chemic substances in corpuscles

Lecithin, urea, cholesterin, etc.

2 Number of corpuscles

Technic of counting

22 Volume of corpuscles

3 Formation of corpuscles

See also 612.119 Sanguification

4 Action of poisons on corpuscles

See also 612.11114 Action of CO on blood

44 Agglutinating substances

45 Hemolytic substances

6 Corpuscles in disease

7 Other red corpuscles than erythrocytes

8 Coloring matters of invertebrate blood

e. g. hemocyanin

9 Other similar coloring matters

e. g. chlorophyl and derivates: phylloerytrin

.112 Leucocytes and ameboid cells

I Chemistry of leucocytes

11 Ferments of leucocytes

Influence of leucocytes (lymphocytes) on digestion

2 Movements and irritability of leucocytes

3 Phagocytosis

4 Diapedesis

5 Effect on coagulation of blood

6 In disease and intoxications Leucocytosis

For digestiv leucocytosis see 612.11211

7 Counting and its technic

8 Numeric relations of white and red corpuscles

9 Varieties Physiologic morfology

.113 Arterial blood

.114 Venous "

.115 Coagulation of blood

I Fibrin Fibrinoplastin

11 Composition and chemic properties

12 Fibrigenous and fibrinoplastic ferments Fibrinogen Thrombin

13 Estimating quantity of fibrin

3 Substances modifying coagulation

31 Retarding agents

35 Accelerating agents

- 612.116 **Total quantity of blood**
- 2 **Hemorrhage Anemia**  
 Subdivisible with o like 612; e. g. physiologic influence of anemia on kidneys 612.1162046 For pathologic effect see 616.243, 618.54
- 21 **Hemostasia**
- 3 **Transfusion**  
 Effect on system receiving transfused blood
- .118 **Physical and biologic properties of blood**
- I **Physical**
- 11 **Osmotic pressure**  
 See also 612.11117 Osmotic permeability
- 12 **Effect of various injections**
- 14 **Viscosity**
- 17 **Cryoscopy of blood**  
 Method of studying isotony and similar phenomena by relative freezing points of solutions
- 2 **Biologic properties**
- 21 **Toxins and antitoxins**  
 Physiologic effect For chemic action see 612.3988 May be used for those not produced by the blood, e. g. cytotoxins
- 211 **Theory of toxic and antitoxic action**
- 22 **Toxic and antitoxic action of blood**  
 Limited to blood toxins and antitoxins. See also 612.3988
- 221 **Specific reaction of blood and albuminoids**  
 Blood in legal medicine
- 222 **Natural immunity**
- 223 **Effect of blood on bacteria**  
 Class here physiologic aspect of opsonic theory, opsonins and opsonic index See also 615.37 Serotherapy
- 24 **Various toxic and antitoxic substances of blood**
- 7 **Varieties of blood in different parts of body**
- .119 **Hematopoiesis or sanguification**  
 See also 612.1113 Formation of red corpuscles
- .12 **Chemic properties of blood**
- .121 **Reaction and density**  
 Color reaction Specific gravity
- .122 **Carbohydrates in blood**  
 1 Glucose 2 Glycogen 3 Glycolytic ferments
- .123 **Fats, lipoids, cholesterin, saponin, glycerin**
- .124 **Albumins and albuminoids Uncrystallizable nitrogen compounds**  
 See also 612.39812 Blood serum
- .125 **Crystallizable nitrogen compounds**  
 1 Staining substances of serum
- .126 **Mineral salts**
- .127 **Blood gases**  
 1 Technic for determining quantity 2 Oxygen 3 Carbonic acid
- .128 **Ferments**
- .129 **Other chemic substances**  
 Abnormal substances

- 612.13 Hydraulic principles of circulation
- .133 **Arterial circulation**  
 Sounds and murmurs  
 See also 612.143
- 134 **Venous circulation**  
 See also 612.144
- 1 **Air in the veins**
- 2 **Venous pulse** Phlebogram
- .135 **Capillary circulation**
- .14 **Blood pressure**
- .141 **Technic of mesuring pressure**  
 Sphygmograf Sphygmomanometry
- .143 **Pressure in arteries**  
 See also 612.133
- .144 **Pressure in veins**  
 See also 612.134
- .145 **Pressure in capillaries**  
 See also 612.135
- .146 **Influence of various agents on pressure**
- 1 **Influence of respiration** Asphyxia  
 See also 612.213
- 2 **Effect of drugs and organic extracts**
- 3 **Pressure in disease**
- .148 **Pressure in lesser or pulmonary circulation,**
- .15 **Rapidity of circulation**  
 In arteries, veins or capillaries Technic of mesuring
- .16 **Pulse**  
 For dicrotic pulse see 616.071 Pulse in diagnosis  
 See also 612.1342 Venous pulse
- .166 **Pulse in disease**
- .17 **Hart**
- .171 **Mechanism of cardiac contraction**  
 Impulse or apex beat Change of volume and position of beating  
 hart Systole Diastole
- 1 **Technic of cardiac contraction** Cardiografy
- 3 **Valvs** System of valv closure
- 5 **Hart sounds**
- 56 " " in disease
- 7 **Action of abnormal hart: misplaced or malformd**
- .172 **Hart as a muscle**  
 Cardiac irritability, contractibility and physiologic morfology
- 1 **Action of blood and coronary arteries** Cardiac  
 anemia
- 2 **Rhythm** Excitation wave Frequency of beats
- 3 **Electric stimulation of hart and refractory period**
- 4 **Electromotiv force**
- 5 **Surviving hart** Artificial respiration  
 Solutions maintaining beat of hart
- 6 **Physiologic morfology**
- 61 **Conduction of stimulation**

- 612.173      **Work of the hart**  
                   Chemic, dynamic and thermic phenomena  
                   Chemic composition of hart  
                   Intracardiac pressure
- .174      **Effect of toxins on the hart**  
                   Atropin  
                   Anesthetics
- .176      **Hart in disease**
- .178      **Innervation of hart**  
                   1      Pneumogastric or vagus  
                             See also 612.819911  
                   2      Sympathetic  
                             See also 612.897  
                   3      Ganglions of hart  
                   4      Action of cerebrum  
                             See also 612.8228  
                   5      Action of medulla oblongata  
                             See also 612.828  
                   6      Cardiac syncope and reflexes  
                   7      Depressor nerv
- .179      **Prenatal circulation**
- .18      **Vasomotors**
- .181      **Action of nervs and nerv centers on bloodvessels**  
                   1      Action of cerebrum  
                   2      "      "      medulla oblongata  
                   3      "      "      spinal cord  
                   4      "      "      great sympathetic
- .182      **Influence of vasomotors on arterial pressure**
- .183      **Vasoconstrictors**
- .184      **Vasodilators**
- .185      **Effect of poisons on vasomotors**
- .186      **Vasomotors in disease**
- .187      **Vasomotors in organs**  
                   Divide like 612 Physiology; e. g.  
                   612.18724      Effect of vasomotors on lung capacity  
                   612.1878421      Effect of vasomotors on iris  
                   612.1875      Influence of vasomotors on temperature  
                   612.187556      Vasomotors in fever
- .188      **Erectil tissues**  
                   See also 612.612
- .189      **Change of volume of organs**  
                   Plethysmografy      Quantity of blood in various organs
- .19      **Action of special organs on circulation**
- .2      **Respiration**  
                   See also 612.793 Cutaneous respiration
- .21      **Respiratory movements**      **Mechanics of respiration**
- .211      **Pneumografy**      **Respiratory types**  
                   Respiratory excursion
- .212      **Pulmonary elasticity and intrapleural pressure**  
                   Intrapulmonary and intrathoracic respirations



- 612.213 **Influence of respiration on circulation**  
 See also 612.1461
- .215 **Special physiology of respiratory apparatus**
- 1 Bronchi
- 2 Trachea
- 3 Smooth pulmonary muscles
- 4 Primary paths of respiration: nose and pharynx
- 5 Pleura
- 8 Pulmonary circulation  
 See also 612.148
- 9 Pulmonary absorption of liquids  
 See also 612.385
- .216 **Respiratory frequency and rhythm**
- 1 Respiratory sounds
- 2 Pulmonary ventilation
- 3 Artificial respiration, artificial changes of respiration
- .217 **Action of muscles      Mechanical phenomena**  
 Dimensions and expansibility of thorax
- 1 Action of diafram
- .219 **Other mechanical phenomena**  
 Modified respiratory acts: snoring, laughing, crying, sighing, yawning,  
 coughing, hawking, sneezing, blowing nose, gargling
- .22 **Respiratory exchange of gases      Respiratory chemistry**  
 o2 Action of oxygen and ozone on organisms  
 o3, Composition of normal air (only in its physiologic bearing)
- .221 **Technic of gaseous exchange**
- .222 **Effect of various agents on gaseous exchange**
- .223 **Effect of quality of air**  
 Hyperpnea, polypnea, thermopnea
- 1 Composition of abnormal air
- 11 Carbonic acid
- 12 Activ oxygen or ozone
- 2 Influence of barometric pressure  
 See 612.27
- 3 Influence of climate
- .224 **Influence of food**
- .225 " " temperature
- .226 **Effect of disease and intoxications**
- .227 **Influence of organs**
- 1 Influence of muscular movements  
 Motion, rest, work
- 2 Influence of nervous system
- 3 " " circulation
- .229 **Influence of animal kind**  
 Variability of gaseous exchange in animal kinds
- 1 Influence of stature
- 2 Aquatic animals

- 612.23 Gaseous exchange in the blood
- .231 Expired air      Respiratory quotient
- .232 Asphyxiation  
       In legal medicin
- 1 Artificial respiration in asphyxiation
- 2 Asphyxiation by submersion
- 3 Hart in asphyxiation
- 4 Toxic action of carbonic acid (CO<sub>2</sub>)
- .233 Respiration in confined air
- .234 Toxic action of carbonous oxid (CO)  
       See also 612.11114 and 615.96
- .235 Exchange of gases between air and blood  
    I Theory
- .24 Lung capacity      Vital capacity  
       Residual, reserv, respiratory or tidal and complemental air
- .25 Exhalation of water from lungs
- .26 Internal or tissue respiration
- .261 Exchange of gases between tissues and blood
- .262 Accumulation of oxygen in tissues (cells)
- .27 Influence of barometric pressure on living beings  
       See also 612.01441. For effect on absorption of oxygen and exhalation  
       of carbonic acid see 612.2232
- .273 Toxic effects of oxygen and ozone
- .274 Effect of more than normal pressure  
       Physiologic aspect of caisson disease
- .275 Effect of less than normal pressure  
    I Physiologic and therapeutic effects of high altitudes  
   II Mountain and aeronautic sickness
- .276 Effect of pressure on fermentations  
       Effect of removing pressure
- .279 Maximum pressures  
       Effect on aquatic animals
- .28 Respiratory centers  
       Influence of nervous system on respiration
- .281 Action of cerebrum and of will
- .282 " " medulla oblongata and vagus nucleus
- .283 " " spinal cord
- .284 " " chemic substances and abnormal blood gases  
    I Toxicology of center  
    2 Apnea, acapnea, dyspnea  
       See also 612.232
- .287 Action of pneumogastric or vagus nervs  
       See also 612.819912
- .288 Respiratory reflexes  
       See also 612.8332
- .29 Influence of other organs on respiration

## 612.3 Digestion

May be subdivided by 01-09 for form, if needed

.31 Mouth    Teeth    Salivary glands

.311 Mastication and prehension

1 Physiology of teeth

.312 Deglutition or swallowing

2 Tonsils    3 Tongue

.313 Salivary glands    Saliva

1 Composition of normal saliva

2 Action of saliva on food    Ptyalin

3 Salivary secretion

31 Toxic effect of saliva

4 Action of chemic substances

See also Therapeutics, 615.741 Sialagoges

41 Elimination

42 Action of atropin and of pilocarpin

5 Physiologic morphology

6 Pathologic changes of saliva

61 Salivary fistulas

63 Bacteriology

64 Salivary calculi

69 Abnormal substances

8 Action of nervous system on salivary secretion

82 Action of sympathetic nerves

See also 612.898

87 Action of chorda tympani

See also 612.81977

.314 Salivary venoms and venoms in general

1 Chemic composition

2 Toxic action

3 Natural immunity and resistance to venoms

4 Attenuation and neutralization of venoms

5 Treatment of venom poisoning    Serotherapy

See 615.94    Duplicated here for physiologist only

51 Antitoxins

See also 612.11822 Antitoxins of serum

.315 Esophagus

.32 Stomach    Gastric juice    Vomiting

.321 Normal composition of gastric juice

1 Gastric fistulas, experimental and pathologic

2 Determination of acid in gastric juice

5 Proteolytic ferments: pepsin

6 Milk curdling ferments, inorganic and organic

.322 Digestive power of gastric juice

1 Starch and analogs

2 Sugars    "    "

3 Fats    "    "

4 Albuminoids

45 Nature and properties of peptones

See also 612.39817

5 Antiputrefactive properties of gastric juice

6 Mixture of bile or other secretions of digestive tract and gastric juice

- 612.3227 Absorption in stomach and transformation (into mucus) of products of digestion  
 See also 612.386
- 72 Absorption and transformation of sugars  
 73 " " " " fats  
 74 " " " " nitrogenous substances (peptones)  
 75 " " " " salts Effect on stomach
- .323 Stomach secretion**  
 2 Formation and destruction of pepsin  
 21 Pepsin in urin  
 3 Formation of hydrochloric acid (HCl)  
 4 Autodigestion of stomach  
 5 Effects of removing stomach
- .324 Action of chemic substances (poisons) on gastric secretion and their elimination**
- .325 Physiologic morfology of stomach**  
 Relation between morfologic changes and stimulation
- .326 Pathologic changes of stomach secretion**  
 3 Bacteriology  
 5 Gastric juice in disease  
 9 Abnormal substances in gastric juice
- .327 Movements of stomach**  
 1 Muscular irritability of stomach  
 2 Motor action of pneumogastric See also 612.819913  
 3 Evacuation of stomach  
 5 Merycism and rumination  
 7 Vomiting  
 8 Action of emetics or vomitories  
 See also under therapeutics, 615.731 Emetics
- .328 Action of nervous system on stomach**  
 1 Psychic influence on stomach secretions  
 8 Sensibility of stomach
- .33 Intestin**  
 Middle intestin and glands of middle intestin in invertebrates
- .331 Normal composition of intestinal juice**  
 1 Intestinal fistulas, experimental and pathologic  
 7 Intestinal gases Fermentiv process due to bacteria
- .332 Intestinal digestion**  
 2 Carbohydrates  
 3 Fats  
 4 Albuminoids and derivates Erepsin  
 7 Absorption and changes of food in intestin  
 See also 612.386  
 72 Carbohydrates  
 73 Fats Chyliferous vessels See also 612.426  
 74 Albuminoid derivates  
 75 Other substances  
 751 Inorganic substances Water and salts  
 8 Action of intestinal juice on other secretions and ferments  
 See also 612.3226  
 84 Enterokinasis and secretin

- 612.333 **Intestinal secretion**  
 .334 **Action of chemic substances on the intestin and their elimination**  
 4 **Purgativs**  
 See also therapeutics, 615.732 Cathartics
- .335 **Physiologic morfology of intestin**  
 5 **Intestinal circulation**
- .336 **Pathologic changes of intestinal secretion**  
 3 **Parasites and microbes**  
 31 **Bacterial fermentation** **Physiologic effect of microbes**
- .337 **Movements of intestin**  
 I **Movement of chyme in intestin**
- .338 **Action of nervous system on intestin**  
 I **Action of nervs and nerv centers on secretion**
- .339 **Peritoneum Omentum**  
 I **Absorption in peritoneum**  
 See also 612.387
- .34 **Pancreas Pancreatic juice**  
 .34I **Normal composition of pancreatic juice**  
 I **Pancreatic fistulas**
- .342 **Action of pancreatic juice on food Tryptic digestion**  
 I **Starches and analogs**  
 2 **Sugars**  
 3 **Fats Steapsin or ptyalin**  
 4 **Albuminoids Trypsinogen Trypsin**  
 5 **Effect on other digestiv phenomena**  
 5I **On bile and gastric juice**  
 See also 612.3226
- .343 **Pancreatic secretion**
- .344 **Action of special substances on pancreatic secretion and juice**
- .345 **Physiologic morfology**  
 Relation between morfologic changes and stimulation
- .346 **Pathologic changes of pancreatic juice**
- .348 **Action of nervous system on pancreas**
- .349 **Pancreas as an internal gland Ilands of Langerhans**  
 I **Pancreatic glycosuria**  
 See also 612.35216 and 612.46621
- .35 **Liver**  
 .35I **Hepatic circulation and chemic composition**  
 I **Chemic composition**  
 II **Ferments**  
 5 **Hepatic circulation**  
 5I **Ligature of portal vein**  
 6 **Effect of extracts from hepatic tissue**  
 6I **Hepatic opotherapy**

- 612.352**            **Effect of liver on absorbd foods**
- I**                **Glycogenesis**      **Glycogen of liver and its tissues**  
                             See also 612.396112 Chemistry of glycogen
- 11**                **Determination of amount of sugar and glycogen: technic**
- 12**                **Sugar of the blood**      See also 612.122
- 13**                **Action of nervs on glycoenic function**      **Experimental diabetes**
- 14**                **Fermentation of glycogen**      **Glycogenolysis**
- 16**                **Glycosuria (diabetes) in general**  
                             See also 612.3491, 612.46621 and pathology 616.63
- 17**                **Glycogen of other organs**
- 18**                **Glycogen of muscles**      See also 612.74411
- 19**                **Relations between glycogenesis and alimentation**
- 2**                **Fat**      **Adipogenic function**
- .353**            **Hepatic chemic phenomena**
- I**                **Formation of urea**      See also 612.4612
- .354**            **Action of poisons on liver**
- I**                **Toxic steatoses**
- 2**                **Antitoxic action of liver**
- .355**            **Temperature of liver**      See also 612.563
- .356**            **Hematopoeitic function of liver and effect on blood**  
                             See also 612.119
- .357**            **Bile**
- I**                **Normal composition of bile**
- 11**                **Biliary fistulas**
- 13**                **Coloring matter**      **Bile pigments**  
                             **Bilirubin, biliverdin**      For origin see 33 below
- 14**                **Mineral salts**
- 15**                **Biliary acids and their salts**  
                             **Glycocholic and taurocholic acids**
- 2**                **Action of bile in the intestin**  
                             **Final fate of bile**
- 3**                **Bile secretion**
- 31**                **Quantity**
- 32**                **Origin of bile acids**
- 33**                **" " " pigments**
- 4**                **Action of chemic substances on bile secretion**  
                             See also therapeutics, 615.742 Cholagogs
- 5**                **Elimination of poisons by bile**
- 6**                **Pathologic physiology of bile**
- 64**                **Biliary calculi**
- 65**                **Obliteration of bile ducts**      **Icterus**      **Jaundis**      **Cholemia**  
                             See also pathology, 616.36 Liver and bile ducts
- 66**                **Bile in disease**
- 67**                **Toxic effects of bile**
- 69**                **Abnormal biliary substances**
- 7**                **Biliary excretion**      **Physiology of ducts**
- 71**                **Gall bladder**
- 72**                **Absorption in biliary ducts**
- 73**                **Contractility of ducts**
- 8**                **Innervation of bile ducts**
- .358**            **Action of nervous system on liver**
- .359**            **Ablation, regeneration, cicatrization and other mor-  
                             fologic phenomena**
- I**                **Volume of liver**
- 2**                **Fatty or starchy degeneration**

## Defecation Large intestine

Proctodeum and its appendages in invertebrates

- .361 Chemic composition of excrements  
 .363 Cecal digestion Vermiform appendix  
 .364 Absorption in large intestine  
 .365 Defecation  
 .366 Rectum  
 .367 Movements of large intestine  
 .368 Innervation " " "

## .38 Absorption

- .381 Imbibition Transudations and exudations Edema

- .382 Osmosis See also 612.0144621

1 Dialysis of mineral salts

2 " " sugars

4 " " albuminoids

- .383 Diffusion

- .384 Absorption by skin

See also 612.79

- .385 Absorption by lungs

See also 612.2159

- .386 Absorption in digestiv tract

General; see also specific part of tract

- .387 Absorption by mucous and serous membranes

See also 612.3391

- .388 Parenchymatous absorption

Absorption by cellular tissue (after injection)

## .39 Nutrition Metabolism

- .391 Hunger Thirst Inanition

3 Hunger, thirst and nervous centers Mechanical  
 action of hunger

4 Inanition in man

6 " " disease

9 " " animals

92 Inanition in poikilothermic animals

96 " " homoiothermic "

## .392 Foods

1 Assimilation of carbon

2 " " nitrogen

See also 612.46123

3 Assimilation of water

4 " of sulfur, phosphorus and iron

3 Sulfur 4 Phosphorus 5 Iron

5 Thermodynamic value of food

6 Mineral foods

1 Sodium salts 2 Potassium salts 3 Calcium salts

7 Vegetable foods,

71 Vegetarianism See also hygiene, 613.26 Vegetable diet

72 Fruits and fresh vegetables

73 Cereals

74 Bread

612.392 8

## Animal food

See also hygiene, 613.28 Meats in diet

81 Meats  
82 Soup      Meat extracts  
83 Eggs  
84 Milk

See also 612.664

841 Sterilization and artificial changes in milk

85 Cheese

86 Butter

9 Special artificial foods

.393

## Condiments and stimulants

1 Alcohol as food      Fermented drinks

See also hygiene of nervous system, 613.81 Alcohol

2 Coffee      Tea

See also hygiene of beverages, 613.37

9 Condiments

.394

## Ration or food requirement during growth

2 Of man      Nourishment of newborn

3 " animals

.395

## Ration or food requirement of adults

1 Working ration      Normal ration

12 Working ration for man

13 " " " animals

2 Subsistence ration

22 Subsistence ration for man

23 " " " animals

5 Relations of ration to external conditions,  
e. g. climate

6 Food requirements in disease

.396

## Carbohydrates

1 Chemic composition

11 Polysaccharids

111 Starch      Inulin

112 Glycogen

113 Cellulose

12 Gums and analogs: dextrin

13 Monosaccharids: glucose, mannose, gallactose, fructose, etc.

14 Disaccharids: sugar, lactose, maltose, etc.

17 Combined carbohydrates

See 612.3981453 Glycoproteids

172 Chitin

175 Glycosids: amygdalin, salicin, phlorizin, saponin, etc.

19 Other carbohydrates: pentose, inusitum

2 Changes of sugars in organism      Glycolysis

21 Products of carbohydrates; e. g. glycuronic acid

22 Alcohol in tissues

3 Hydrolytic ferments of carbohydrates and analogs

31 Amylasis, inulasis, cytasis, etc.

32 Saccharoclastic ferments      Inversion

4 Formation of carbohydrates in organism

5 Thermodynamic value of carbohydrates

7 Quantity of carbohydrates in foods and tissues



## Fats

- I Chemic composition
- 2 Changes of fats in organism
- 21 Fatty degeneration and infiltration See also 612.3952
- 22 Products of fats
- 23 Acids
- 24 Glycerins
- 3 Lipolytic ferments
- 4 Formation of fats
- 5 Thermodynamic value
- 7 Quantity of fat in food and tissues Adiposity
- 8 Lipoids
- 81 Cholesterin
- 82 Lecithin

## Albuminoids and nitrogenous substances

- I Chemic composition
- 11 Composit albuminoids
  - For eg albumin see also 612.39283
- 12 Blood serum and other serous fluids of body
  - See also chemical properties of blood, 612.124 Albuminoids
- 13 Simple albuminoids
  - 131 Albumin
  - 132 Globulins: fibrinogenic and fibrinoplastic substances, myosin, etc.
  - 133 Coagulated albuminoids Fibrin Coagulation of albuminoids
  - 135 Albuminoids as acids or bases
  - 136 Nucleoalbumins, simple phosphorated albuminoids
  - 138 Protamins
  - 139 Other albumins
- 14 Other albuminoids
- 145 Proteids
  - Albumin + a complex organic compound
  - 1 Nucleoproteids
    - Albumin + nucleic acid, products of nucleic acid and specific ferments
  - 2 Hemoglobin and analogs
    - Albumin + an iron compound. See also 612.11111
  - 3 Glycoproteids
    - Albumin + a carbohydrate. See also 612.3967
- 146 Albuminoids: glutin, elastin, amyloid, etc.
- 15 Vegetable albuminoids
- 16 Albuminoid products and nitrogen compounds
- 17 Albuminoses and peptones
  - 172 Thermodynamic value
  - 175 Changes of substances derived from albuminoids by digestion
- 19 Products of complete change of albuminoids Nitrogen compounds
- 191 Protaminic nucleus See also 612.398138
- 192 Amidic acids
- 193 Urea Uric acid See also 612.4612, 612.46125, 612.398195
- 194 Ammonia and ammonia compounds
- 195 Bases (alkaloids), purin compounds
- 196 Aromatic compounds
- 197 Nonnitrogenous products of albuminoids
- 199 Other products
- 2 Changes of albuminoids in organism
- 3 Proteolytic ferments
  - Only general works See specific nitrogen compounds for their derivatives, ferments and properties For milk curdling ferments see 612.3216 and 612.664171
- 5 Thermodynamic value of albumins and derivates
- Albumin as food

612.392 8

## Animal food

See also hygiene, 613.28 Meats in diet

- 81 Meats
- 82 Soup Meat extracts
- 83 Eggs
- 84 Milk

See also 612.664

- 841 Sterilization and artificial changes in milk
- 85 Cheese
- 86 Butter

## Special artificial foods

### .393 Condiments and stimulants

- 1 Alcohol as food Fermented drinks

See also hygiene of nervous system, 613.81 Alcohol

- 2 Coffee Tea

See also hygiene of beverages, 613.37

- 9 Condiments

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- 4 Formation of carbohydrates in organism

- 5 Thermodynamic value of carbohydrates

- 7 Quantity of carbohydrates in foods and tissues

## Fats

- 1 Chemic composition
- 2 Changes of fats in organism
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- 22 Products of fats
- 23 Acids
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    - 2 Changes of albuminoids in organism
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    - 5 Thermodynamic value of albumins and derivates
      - Albumin as food

- 612.398 6 Formation of albuminoids in general  
 7 Quantity of albuminoids in food and tissues  
 8 Toxins, antitoxins Chemistry of poisons  
 Chemistry of poisons For action, see 612.11821; for animal  
 poisons, see 612.314; for ptomaines, leucomaines, etc. see  
 612.398195 above
- .4 Glandular system Secretion Excretion**
- .401 Effect of circulation on glands  
 .402 " " glands " circulation and blood  
 .403 " " " " nutrition  
 .404 " " nutrition " glands  
 .405 Physics and chemistry of secretion  
 .407 Effect of glands on nervous system  
 .408 " " nervous system on glands  
 See also 612.817  
 .409 Physiologic morphology of secretions and glandular epitheliums
- .41 Spleen**
- .411 Hematopoietic action Effect of spleen on blood  
 .412 Splenotomy Circulation in spleen  
 .413 Contractility of spleen  
 .414 Spleen in relation to other organs  
 Effect on digestion  
 .416<sup>o</sup> Function of spleen in disease, in experimental infections  
 and in wounds
- .418 Chemic phenomena**
- .42 Lymphatic system and lymph**  
 For lymphocytes see 612.112
- .421 Lymph Chemic composition  
 .422 Quantity and origin of lymph  
 .423 Lymphatic circulation  
 Thoracic duct  
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 .424  
 .425 Innervation of lymphatic system  
 .426 Lymphatic absorption  
 See also 612.33273  
 .427 Lymphatic fistulas  
 .428 Lymph glands
- .43 Thymus**  
**.44 Thyroid gland**  
 .441 Chemic composition  
 .442 Parathyroid glands or accessory thyroids  
 .445 Thyroidectomy Destruction of thyroid  
 Including pathologic destruction  
 .448 Effects of thyroid extracts
- .45 Suprarenal capsules**  
 .451 Chemic composition  
 .455 Excision and destruction  
 .458 Effect of capsular extract

## Chemical composition of urin

- 1 Reaction and physical properties
- 11 Reaction
- 12 Density
- 13 Temperature
- 17 Urinary technology
- 174 Staining reactions
- 175 Spectroscopic examinations
- 176 Polarimetric "
- 177 Histochemic "
- 178 Pathologic urinary technology
- 179 Densimetry and cryoscopy of urin
- 2 Urea and nitrogen compounds
- 21 Determination of quantity of urea Ureameters
- 22 Determination of total nitrogen
- 23 Excretion and metabolism of nitrogen
- 231 In relation to alimentation
- 232 " " " work
- 234 Effect of chemical substances (poisons)
- 235 Influence of temperature
- 236 " " disease
- 238 " " nervous system
- 239 " " animal kind
- Variability of process in animal kingdom
- 25 Uric acid See also 612.398193
- 251 Determination of quantity
- 254 In animals
- 255 " normal man
- 256 " man in disease: uric diathesis
- 259 " other tissues and fluids than urin
- 26 Other nitrogen products of urin
- 261 Bases Xanthin bases See also 612.398195
- 262 Ptomaines
- 263 Allantoin
- 264 Peptones See also 612.46668, 612.39817
- 266 Hippuric acid
- 267 Ammonium and other urates See also 612.398194
- 268 Ferments See also 612.32321
- 269 Physiologic albuminuria
- 27 Coloring matter Pigments: urobilin, urochrome
- 6 Salin substances in urin
- 61 Chlorin salts
- 62 Phosphorus and its compounds
- 63 Sulfur and its compounds
- 64 Gases of urin
- 8 Nonnitrogenous organic constituents of normal urin
- 82 Sugars Physiologic glycosuria

## Urinary toxicity

- 1 Internal secretion of kidneys

## Urinary secretion

- 1 Quantity of urin
- 2 Elimination of urin
- 4 Renal circulation
- 5 Influence of blood and circulation
- 6 Comparativ secretion of the two kidneys
- 8 Effect of nervous system
- 81 Glycosuria, polyuria after lesion of medulla oblongata

- 612.464      **Action of poisons on urinary secretion and their elimination**
- 1              **Diuretics      Polyuria**  
                     See also 615.761 Diuretics in therapeutics
- 2              **Toxic albuminurias**  
                     See also 612.46622
- 3              **Elimination of poisons by urin**
- 4              **Toxic glycosuria      Phlorizin**  
                     See also 612.46621
- .465           **Physiologic morfology of kidneys**
- .466           **Pathologic physiology of kidneys and urin**
- 1              **Urinary calculi**
- 2              **Urin in disease**
- 21             **Urin in diabetes      Chemistry of glycosuria      For physiology of diabetes see 612.35216**
- 22             **Urin in albuminuria      Albuminuria in general**  
                     See also 612.461269, 612.4642 and 616.634
- 23             **Resection and lesion of kidneys, experimental and pathologic**  
                     Ligature of ureter, etc.
- 231           **Uremia      See also 616.638**
- 26             **Urin in fever**
- 6              **Abnormal substances in urin**
- 61             **Acetonuria      Acidosis**
- 62             **Chyluria**
- 63             **Other abnormal products of metabolism**
- 631           **Glycuronic acid      See also 612.39621**
- 64             **Products of intestinal putrefaction      Indican**
- 67             **Biliary pigments      Choluria**
- 68             **Albuminoses and peptonos**
- 69             **Hematuria and hemoglobinuria**
- 7              **Urinary fermentation      Putrefaction of urin**
- .467           **Urinary discharge**
- 1              **Physiology of bladder, ureters and urethra**
- 11             **Micturition**
- 2              **Absorption in urinary passages**
- 3              **Innervation of vesical apparatus**  
                     For prostate see 612.617      For action of nervous system on function of kidneys see 612.4638
- .49           **Other glands and secretions**
- .491           **Bone marrow**
- .492           **Hypophysis or pituitary gland      Somatic brain**
- .493           **Scent glands of animals**
- .494           **Bartholini's glands**
- .495           **Carotid gland**
- .499           **Other glands**  
                     See also 612.664, 612.792

- 612.5 **Animal heat**
- .51 Sources Thermogenesis Calorimetry
  - .511 Direct calorimetry
  - 6 Calorimetry in disease
  - .512 Indirect calorimetry
  - I Influence of alimentation
  - 3 Effect of respiration
  - .52 Loss of heat Radiation Thermolysis
  - Conduction of animal tissues
  - .521 Cutaneous radiation
  - I Physiology of clothing
  - .523 Loss by pulmonary evaporation
  - .524 " " cutaneous evaporation
  - .53 Regulation of temperature Heat balance
  - Thermotaxis
  - .531 Influence of vasomotors
  - .532 " " muscular movement
  - See also 612.7453
  - .533 Effect of perspiration
  - .534 " " respiration Thermic polypnea
  - .535 Thermic centers
  - .54 Other conditions affecting temperature and thermogenesis
  - .541 Effect of baths
  - .543 " " inanition
  - See also 612.391
  - .544 Effect of poisons
  - .55 Variations in production and regulation of heat
  - .556 In disease: fevers
  - .56 Temperature of body
  - .563 Thermic topography
  - .58 Hibernating animals
  - .59 Heat and cold; effect on organism
  - Subdivisible with o like 612; e. g. 612.59074 Effect on muscles
  - 612.5908 " nervous system
  - See also 612.61443
  - .591 Effect of heat Deth from heat Thermic rigidity
  - .592 Effect of cold Deth from cold Rigidity from cold





- 612.63 Impregnation      Pregnancy      Parturition  
     See also 612.612  
     01 Period of pregnancy  
     03 Ovary in pregnancy      Corpus luteum
- .64 Development of embryo  
     For embryology see 611.013; for abnormal development see 611.012 Teratology, 617.3 Deformities
- .646 Physiology of embryo  
 .647      "      " fetus  
 .648      "      " newborn
- .649 Appendages of embryo      Amniotic fluid  
     See also 611.0138 Fetal appendages (in embryology)
- .65 Growth after birth  
     See also 612.64
- .651 Metamorphosis of lower animals      Larvae
- .66 Period of full development
- .661 Puberty
- .662 Menstruation
- .663 Fecundity
- .664 Lactation and milk  
     Physiology of mammary glands
- 1      Physics and chemistry of milk  
 12      Sugars  
 13      Fats      Butter  
 14      Albuminoids  
 16      Mineral substances  
 17      Lactic fermentation      Milk ferments  
 171      Milk curdling ferments      Coagulation of milk  
 18      Other constituents  
 181      Abnormal substances  
 19      Comparison of milk of various animals  
 191      Human milk
- 3      Lactic secretion  
 31      Quantity  
 32      Formation of sugars  
 33      "      " fats  
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 35      Colostrum  
 36      Effect of various agents on secretion
- 4      Action of poisons on milk secretion and their elimination
- 5      Physiologic morphology of milk
- 6      Pathologic changes in lactic secretion
- 7      Digestion of milk
- 8      Innervation of mammary glands
- .67 Period of decline      Deth  
     See also 577.7
- .68 Longevity  
     See also 368.3 Life insurance; 519.5 Probabilities; 614.12 Deth rates

- 612.7 **Motor and vocal apparatus**      **Skin**
- .71 **Protoplasm**  
       See also 612.014      General physiology of cells and organisms
- .72 **Vibratil cilia**
- .73 **Smooth muscle**  
       Divided like 612.74
- .74 **Striped muscle**  
       Muscle in general, including smooth muscle
- .74I **Muscular contraction**
- I **Myografy**
- 12      Single contraction of muscle fiber      Jerk contraction
- 13      Tetanic contraction
- 14      Tonic contraction
- 15      Influence of chemic substances on muscles
- 16      Myografy in disease
- 2      Change of volume of muscle
- 3      Muscle wave
- 4      Elasticity of muscle  
             Myotonometry      Effect of weight      Tension
- 6      Muscular irritability      Influence of blood
- 61      Circulation in muscles
- 62      Effect of stimulation
- 63      " " electricity
- 7      Latent period  
             Time elapsing between moment of stimulation and response by an  
             activ tissue
- 8      Muscle murmur
- 9      Physiologic morfology of muscles  
             Histologic phenomena of contraction
- .742 **Muscles after deth**      **Rigor mortis**
- I      Chemic phenomena after deth: autolysis
- .743 **Electric phenomena of muscles**
- .744 **Chemistry of muscle**
- I      Normal composition
- 11      Carbohydrates  
             See also 612.35218      Glycogen of muscles
- 14      Albuminoids
- 15      Other organic substances
- 16      Mineral substances  
             Including water      Muscle salts
- 17      Gases
- 2      Chemic effects of muscular contraction
- 21      Fatigue
- 21I      Ergografy      Dynamometry      Work in general
- 22      Consumption of oxygen and production of CO<sub>2</sub> in work
- 23      Function of carbohydrates
- 24      Relation of chemic changes to work      Metabolism in relation to  
             work
- .745 **General effect on organism of muscular contraction or  
 work**  
       See also 612.532
- I      Dynamic effects
- 3      Thermic      "
- 5      Relations between work and heat

- 612.746 Pathologic physiology of muscles  
 1 Contractures  
 4 Tremors Shuddering  
 5 Nutrition of muscles Atrophy Degeneration  
 Regeneration  
 Including nerv influence See also 612.818
- .75 Bones, joints and connectiv tissues  
 .751 Chemic composition of bone and connectiv tissue  
 See also 612.398146  
 1 Bone  
 2 Cartilage  
 3 Connectiv tissue
- .752 Nutrition of bones  
 .753 Growth, cicatrization and regeneration of bone  
 .754 Periosteum Perichondrium  
 .755 Tendons
- .76 Locomotion  
 Principles of animal mechanism; comparativ study of locomotion prefer-  
 ably clast in 591.47
- .761 Chronofotografy: technic  
 .763 Special movements Combined movements  
 Physiology of violin playing, etc.
- .766 Human locomotion  
 1 Physiology of exercise and work  
 2 Rest
- .767 Animal locomotion Special organs of locomotion  
 Swimming bladder of fishes
- .768 Flight  
 .769 Biologic adaptation of movement  
 .77 Electric and phosphorescent animals  
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 .771 Electric animals  
 .772 Phosphorescent animals
- .78 Voice and speech  
 See also 784.9 Vocal hygiene; 808.5 Elocution; 534.7 Sound
- .781 Sensibility of larynx  
 .782 Movements and innervation of larynx  
 1 Influence of spinal accessory nerv  
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 2 Influence of pneumogastric  
 See also 612.819917  
 3 Laryngoscopy  
 4 Movements of glottis  
 5 Epiglottis
- .783 Artificial larynx  
 .784 Singing Timbre, quality Voice register  
 .785 Larynx in deglutition and other laryngeal functions  
 See also 612.312  
 .786 Organs of sound in lower animals  
 .788 Larynx of birds

- 612.789      **Speech      Language**
- 1              Function of mouth and nose
- 2              "              "      lips and soft palate
- 3              Innervation of organs of speech      Aphasia  
                     See also 616.855
- 4              Vowels and consonants
- 5              Ventriloquism  
                     See also 791 Ventriloquism as an amusement
- .79              **Skin**
- .79015              Chemic composition
- .791              **Absorption**  
                     See also 612.384
- 1              Penetration by solids
- 2              Absorption of fats
- 3              "              "      solutions
- 4              "              "      liquids
- 5              "              "      gases
- .792              **Cutaneous glands and secretion**
- 1              Swet      Chemic composition
- 12              Toxic action of swet
- 4              Action of chemic substances on swet secretion
- 42              Elimination of poisons by swet
- 5              Physiologic morfology of swet
- 6              Pathologic changes of swet
- 8              Action of nervous system on cutaneous exhalation
- 9              Other cutaneous secretions
- .793              **Cutaneous respiration**
- 4              Effect of suspended transpiration; closing pores by  
                     liniments, etc.
- 5              Effect of chemic substances on skin  
                     See also 612.7924
- .794              **Cutaneous sensibility**
- .795              **Electric conductivity and resistance of skin**  
                     See also 612.014422
- .796              **Chromatophores and skin pigments**
- .798              **Trofic nervs of skin**
- .799              **Growth and physiology of nails and hair**

## 612.8 Nervous system

- .801 Theory of nervous system and innervation
  - 1 Dynamogenesis and inhibition
  - 2 Action of nervous system on chemic phenomena
  - 3 Effect on morfogeny and evolution
    - See also 612.605
- .81 Peripheral nervous system      Nerv fibers
- .811 Distinction between sensory and motor nervs
  - 3 Ganglions of sensory nervs
  - 4 Influence of sensibility on movement and of movement on sensibility
- .812 Recurrent sensibility
- .813 Electric phenomena of nervs and muscles
  - Muscle-nerv experiments as indicativ of nervous process
  - For muscle phenomena see 612.743
  - 2 Negativ variations
  - 3 Electrotonus
- .814 Chemic and thermic phenomena of nervous stimulation
  - For stimulation of nerv centers see 612.8222
- .815 Physiologic morfology of nervous stimulation
  - 1 Sensory terminations
  - 2 Motor                   “
- .816 Irritability of nervs and muscles
  - Nerv-muscle or nerv-gland physiology
  - 1 Action of electricity
  - 2 Theories of nerv waves
  - 3 Nervous conductibility
  - 4 Effect of blood on nervs      Anemia
  - 5 Rapidity of nerv waves
  - 6 Nerv fatigue
  - 7 Action of chemic substances on nervous irritability
- .817 Effect of nervs on muscles and glands
  - 1 Chemic substances      Curare poisons
  - 2 Voluntary contraction
  - 3 Tonicity      Atrofy of muscles after cutting nervs, etc.
    - See also 612.7465
- .818 Trofic nervs
  - 5 Degeneration, regeneration and cicatrization
    - 1 Degeneration    2 Regeneration    3 Cicatrization

## Special nerves

Whenever possible class according to function rather than according to a particular nerve, classing here only special nerve physiology

- 1 1st pair: olfactory
- 2 2d pair: optic  
See also 612.843
- 3 3d pair: motoroculi or oculomoto
- 31 Innervation of iris  
See also 612.842
- 32 Innervation of eyelids  
See also 612.847
- 33 Innervation of eye muscles
- 4 4th pair: trochlear or pathetic
- 5 5th " : trigeminal
- 52 Sensory action
- 53 Trofic action
- 6 6th pair: external oculomoto or abducent
- 7 7th " : facial
- 71 Effect on facial muscles
- 73 " " respiration
- 74 " " hearing
- 75 " " deglutition and taste
- 77 " " salivation Chorda tympani  
See also 612.31387
- 78 Pathology Facial paralysis
- 8 8th pair: auditory  
See also 612.8585
- 9 9th pair: glossopharyngeal
- 91 10th " : pneumogastric or vagus
- 911 Effect on hart and circulation  
See also 612.1781
- 912 Effect on respiration  
See also 612.287
- 913 Effect on digestiv organs  
See also 612.328, 612.338, 612.348, 612.358, 612.368
- 915 Effect on kidneys and other glands  
See also 612.4
- 917 Effect on voice production  
See also 612.7822
- 918 Section of vagus or pneumogastric
- 92 11th pair: spinal accessory
- 921 Anastomosis with vagus
- 922 Innervation of respiratory organs  
See also 612.28
- 923 Innervation of vocal organs  
See also 612.7893
- 93 12th pair: hypoglossal
- 94 Spinal nerves in particular
- 941 Phrenic nerve

## Physiologic psychology

Usually better class in 130 Mind and body

- 1 Time of reaction to stimulation      Psychometry
- 2 Attention      Memory      Association      Imagina-  
tion
- 3 Instinct      Intelligence      Emotions      Sensibility
- 31      Comparativ psychology
- 311      Nonautomatic actions of animals      Anticlistis
- 312      Automatic      "      "      "
- For physiologic aspect see 612.829
- 313      Instincts of animals      Behavior      See also 591.51
- 33      Emotions      Sensibility
- 34      Inhibition of movement      Will      Habit      Impulse
- 35      Associated movements
- 4 Action of poisons on intelligence
- See also 613.8 Hygiene of nervous system
- "      "      615.9 Toxicology
- 41      Alkaloids
- 42      Nonalkaloid anesthetics
- See also Therapeutics, 615.96 Cerebral poisons
- 44      Alcohol
- See also Therapeutics, 615.964 Alcohol as cerebral poison
- Pathology      616.861 Alcoholism
- 5 Effect of disease on intelligence
- 6 Psychic reflexes
- 7 Sleep      Hypnotism
- See also 135 Sleep, Dreams
- 71      Hypnotism      See also 134 Mesmerism, Hypnotism
- 73      Theories of sleep
- 74      Cerebral circulation in sleep
- 75      Chemic phenomena of organism in sleep
- 76      Dreams
- 8 Sense in general and theories of perception
- 88      Psychophysical laws
- 89      Sensory delusions
- For optic illusions see also 612.84374

## Nerv cells and nerv centers

- 1 Chemistry of nervous tissue
- Metabolism in nerves
- 2 Chemic phenomena of nervous excitation
- For stimulation of nerv fibers see 612.814
- 3 Electromotiv phenomena of nervous excitation
- 4 Thermic      "      "      "      "
- 5 Physiologic morfology      "      "      "
- 53      Effects of fatigue
- 54      "      "      poisons
- 56      Degeneration and regeneration of centers
- 6 Effects of removal and experimental, pathologic or  
teratologic lesion of nerv centers
- 61      Movement in a circle (motus circularis, manège)
- 7 Decapitation
- 8 Action of central nervous system on chemic  
phenomena of organism
- See also 612.01538, 612.8012
- 81      Effect of chemic changes on centers

612.823	<b>Weight and general morphology of brain</b>		
5	Conduction in centers		
.824	<b>Cerebral circulation</b>		
1	Neurolymph, neurolymph or cerebrospinal fluid		
	Meninges Choroid plexus		
2	Brain movements		
3	Cerebral vasomotors		
4	" anemia		
5	Pressure on nerv centers		
55	<b>Compression and concussion of brain</b>	Abnormal pressure	
6	Temperature of blood in nerv centers		
	Effect of abnormal pressure		
.825	<b>Cerebral convolutions (cortex)</b>		
1	Cortical excitability		
2 *	Psychomotiv centers	Localizations	
23	<b>Inhibitory actions</b>		
	See also 612.8338		
24	<b>Localization in man</b>		
249	Speech Aphasia		
	See also 612.7893		
25	Localization in animals		
26	<b>Topograpy of localizations</b>		
261	Frontal lobe		
262	Occipital "		
263	Parietal "		
264	Temporal "		
265	Central "		
266	Olfactory "		
3	<b>Cortical epilepsy</b>		
	See also 616.853		
5	<b>Sensory functions of convolutions</b>		
	Convolutions as seat of senses		
54	<b>Sight</b>		
55	<b>Hearing</b>		
56	<b>Smell</b>		
57	<b>Taste</b>		
58	<b>Muscular sense</b>		
	See also 612.885		
59	<b>Touch</b>		
	See also 612.88		
8	<b>Intellectual functions</b>		
	Only for physiology of these functions		
.826	<b>Cerebral ganglions, commissures, etc.</b>		
1	Optostriate body and callosum		
	Or optic thalami, striatum and callosum		
2	Conduction in the brain		
	See also 612.8235		
3	Crura or cerebral peduncles	Epiphysis	Infundibulum
5	Quadrigenium	Optic lobes	
7	Cerebellar peduncles or prepeduncles		
8	Pons		





612.843

Optic nerv      Retina

See also 612.8192 2d pair of Cranial nervs; optic

- 1      Physiologic morfology      Retinal purple
- 12      Ophthalmoscope
- 13      Retinal circulation
- 14      "      purple
- 15      Physiologic morfology of retina
- 2      Irradiation
- 3      Color sense      Chromatic sensibility
- 31      Color sight
  - Power to distinguish colors
  - For color blindness see 512.8455; 617.75
- 32      Sensitivness to color
  - For pathology of chromatic sensibility see 612.8455
- 34      Mixture of colors
- 35      Contrast of colors
- 4      Entoptic phenomena
- 5      Persistence of retinal impressions
- 6      Field of vision      Visual acuteness and sensibility
- 61      Photometry
  - Photometric technic
- 62      Field of vision
- 63      Visual acuteness and sensibility
- 7      Conduction in the brain      Perception
- 71      Histology of fibrillae      Center of sight
- 72      Optic perceptions      Localization of image in space
- 721      Binocular perception      Stereoscopy      Perception of distance, size and form
  - Perception of differences in hight of surface      For movement see 612.8462
- 73      Impression of color suggested by sound, auditus coloratus
- 74      Optic illusions
- 75      Observations on those born blind
- 78      Degenerations of optic nerv and fibrillae
- .844      Refractory apparatus      Ocular refraction
  - See also 612.8421
- 1      Crystallin lens
- 4      Aqueous humor
- 7      Vitreous humor
- .845      Functional disorders or pathology of sight
  - See also 617.75
- 1      Myopia
- 2      Hypermetropia
- 3      Astigmatism
- 4      Presbyopia
- 5      Daltonism      Color blindness
  - See also 612.84331 Color sight; 617.75 Disorders of vision
- 6      Hemeralopia

- 612.846      **Movements of eye**
- 2              Binocular vision  
                     For perception see 612.843721
- 3              Action of 3d cranial or oculomotor nerve
- 4              "      "      4th      "      or trochlear nerve
- 6              "      "      6th      "      or abducent nerve
- 8              Strabismus      Diplopia
- .847      **Palpebral and lacrimal apparatus**
- .85      **Hearing**
- .851      **External ear: functions**
- .854      **Middle ear**
- .855      Tympanic membrane or drumhead      Tympanum
- .856      Eustachian tube
- .857      Bones
- .858      **Internal ear**
- 1              Conduction of sound in internal ear
- 2              Utricule      Saccule
- 3              Semicircular canals  
                     See also 612.8863 and 616.81982 Vertigo
- 4              Cochlea      Corti's organ or fibers      Spiral organ
- 5              Acoustic nerve
- 6              Endolymph
- 7              Acoustic perception      Conduction of acoustic excitation in the brain
- 71              Auditory acuteness
- 72              Auditory center in brain  
                     See also 612.82555
- 73              Subjectiv sensations
- 74              Musical physiology and psychology  
                     Distinction of tones and quality or tone color (timbre)
- 75              **Binaural hearing**
- 751              Localization of sound in space      Estimation and effect of distance
- 76              Sensibility of living beings to sound and vibrations
- 8              Otocysts
- 8              Auditory reflexes
- .86      **Smell**  
                     See also 612.82556 Seat of smell
- .867      **Perceptions      Conduction in the brain**
- .87      **Taste**
- .875      **Function of lingual nerve**  
                     See also 612.8195
- .877      **Function of chorda tympani**  
                     See also 612.81977
- .879      **Function of glossopharyngeal nerve**  
                     See also 612.8199

- 612.88 Touch Tactil sense Equilibrium
- .881 Notion of space
- .882 Sense of temperature
- .883 Sense of pressure  
Including all related phenomena; e. g. tickling
- I Esthesiometers
- .884 Sensibility to pain
- .885 Muscular sense Power sense
- .886 Sense of equilibrium
- I Sense of direction and orientation
- 2 Seasickness
- 3 Vertigo  
See also 612.8583
- 9 Function of special organs  
Function of lateral line of fishes and other special organs of lower animals
- .887 Anesthesia, hyperesthesia, synesthesia
- .89 Sympathetic nervous system
- .8903 Trofic action
- .8905 Reflex phenomena
- .891 Cervical ganglions and plexus
- .892 Thoracic " " "
- .893 Abdominal " " "
- .896 Action on eyes; iris  
See also 612.8422
- .897 Action on hart  
See also 612.1782
- .898 Action on digestiv tract; alimentary canal  
See also 612.3 and special subdivisions
- .899 Effect on blood vessels  
See also 612.18

# 613 Personal hygiene

Care of Health; Prophylaxis; Individual Health; Laws of Health.

.02, Compendis; .03, Dictionaries, Cyclopedias; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Sanitary Appliances; .09, History, Description, Reports, etc., divided like 930-999.

## .1 Air and Light.

For Air Analysis, see 543.7; Air Pollution, 614.7; Ventilation, 628.8.

.11 Climate. Acclimation. See 551.5, Meteorology; 615.834, Therapeutics; 614.42, Geographical distribution of disease.

.12 Health Resorts. Mountain. Sea-shore.  
Regions exempt from special diseases.

.13 Seasons. Time of Day.

.14 Malaria. Moisture. Ground Air. See Public Health, 614.775, 614.773, and 614.772.

.15 Purification of Air.

.16 Special Influences. Ozone, Electricity, etc.

.17 Quantity of Air Necessary.

.18 Temperature. See also 536.5, Heat; 551.52, Meteorology.

.19 Sunlight.

## .2 Food. Dietetics.

For Food Analysis, see 543.1; Adulterations, 614.31; Digestion and Nutrition, 612.3.

.21 Dietaries.

Including food for special classes of people; literary men, soldiers, etc.

.22 Food for Infants.

.23 Food for the Sick.

Including means for giving nutrition, baths, enemata, forced alimentation, etc.

.24 Fasting. Famine. Starvation.

.25 Excess of Food.

.26 Vegetable Food.

.27 Fruits.

.28 Animal Food. Meats.

.29 Fish, Oysters, etc.

## .3 Beverages.

For alcoholic beverages, see 613.81 and 178, Temperance Ethics; Inspection of beverages, 614.34.

.31 Water as a Beverage.

.32 Impurities in Water and Ice. See also 628.16, Water supply of towns.

.33 Microscopical Analysis. For Chemical Analysis, see 543.3.

.34 Biological Analysis.

.35 Purification. Filtration, Boiling, Chemical, etc. See also 628.16, Water Supply.

.36 Cold Drinks.

.37 Hot Drinks. Tea, Coffee, etc. See also 614.347, Adulterations.

.38 Mineral Waters, Carbonated Waters, etc. See also 614.348, Adulterations; 615.79, Therapeutics.

.39 Other Beverages.

**Cleanliness of Body. Clothing.**

See also 646, Clothing, Toilet, etc.; 391, Customs, Care of Person, Bathing, Toilet. For Therapeutic baths, electric, sulphur, etc., see 615.67.

- .41 Baths.
- .42 Warm.
- .43 Cold. For Swimming, see 796.
- .44 Douche or Shower.
- .45 Sea. Salt.
- .46 Hot Air. Turkish. Russian. Roman, etc.
- .47 Public.
- .48 Clothing.
- 1, Material, wool, cotton, etc.
  - 2, Quantity.
  - 3, Cleanliness.
  - 4, Pressure. Corsets, garters, tight boots, support from hips, etc.
- .49 Care of special parts of body.
- .5 **Human Habitation and Resort.**
- For Heating, see 697; Ventilation, 628.8; House drainage, 628.6; Sanitation of towns, 628.4; Industrial sanitation, 628.5.
- These subjects, partly Public and partly Private Hygiene, are for convenience grouped together here.
- .51 Homes.
- .52 Hotels.
- .53 Tenements.
- .54 Schools. Colleges. See School hygiene, 371.7.
- .55 Churches, Theaters, Halls, etc.
- .56 Hospitals. Asylums.
- .57 Prisons. Reformatories.
- .58
- .59 House Furnishing.
- 1, Bed and Bedding.
  - 2, Curtains. Tapestries.
  - 3, Carpets. Rugs. Floors.
  - 4, Wall Paper.
  - 9, House Cleaning.
- .6 **Hygiene of Employment.** *Effect of occupations on health*
- For Labor of children, see 331.3; Mining dangers and accidents, 622.8; see also Laboring classes, 331.8; Industrial sanitation, 628.5; Nuisances, 614.7.
- .61 Over-hours. Over-work.
- Occupations made Injurious.**
- .62 By Inhalation of Vapors and Gases.
- Bleachers, match-makers, lard refiners, etc.
- .63 By Inhalation of Dust or by Absorption.
- Grinders, stone-cutters, millers, wool operatives, hair pickers, type founders, grocers, etc.
- .64 By Elevated, Low, or Variable Temperature.
- Bakers, fergemen, mariners, fishermen, farmers, laborers, etc.
- .65 By Over-use of certain Organs. By Constrained Attitude and Sedentary Life.
- Engravers, public speakers, copyists, printers, salesmen, clerks, literary men, etc. See also Mental hygiene, 131.
- .66 By Accidents. See Public health, 614.8, Protection from accidents.
- Machinists, quarrymen, caisson-workers, manufacturers of explosives, etc.
- .67 Military Hygiene. Barracks, Camp and Tent Life.
- .68 Naval Hygiene. Ship Life.
- .69 Hygiene of Travel and Exploration.

- 613.7 **Hygiene of Recreation and Sleep.**
- .71 **Gymnastics.** See also 371.73, School Hygiene, Care of Body  
For Curative gymnastics, see 615.82, Massage.
  - .72 **Athletics and other Muscular Exercise.**  
See also 796, Out-door sports.
  - .73 **Training and Overstrain.** See also 371.75, Championship games;
  - .74 **Amusement or Play.**  
See also 796, Out-door sports, and 371.74, Recreations.
  - .75 **Parks.**  
Some subjects more properly placed in Public Health, are grouped here by attraction.
  - .76 **Vacations.** See also 371.23, School Vacations.
  - .77 **Holidays.** See also 371.23, School Holidays.
  - .78
  - .79 **Rest and Sleep. Late Hours.** See 613.86, Insomnia.
  - .8 **Hygiene of Nervous System.**  
Including the action of Stimulants and Narcotics. See also 615.78, Drugs acting on Nervous System; 615.95, Neurotic Poisons.  
For Mental overwork, see 131, Mental Hygiene. See also 178, Temperance.
  - .81 **Alcohol.** See also Temperance, 178; Beverages, 613.3; Inspection of Beverages, 614.34.
  - .82 **Opium and Hashish.** See also 178.8.
  - .83 **Chloral and Caffeine.** See also 178.8.
  - .84 **Tobacco.** See also 178.7.
  - .85 **Other Narcotics.**
  - .86 **Insomnia.** See also 613.79, Rest and Sleep.
  - .87 **Morbid Habits. Bad Social Customs.** See also Social Ethics, 177.
  - .88 **Luxury. Privation.**
  - .89 **Celibacy. Monogamy. Polygamy.**  
See also Polygamy and Monogamy, 173.2; Sexual Ethics, 176; Celibacy of Clergy, 254; Asceticism, 248.
  - .9 **Hygiene of Offspring. Heredity.**  
See also Heredity, 575.1.
  - .91 **Congenital Defects of Body.**  
See also Monstrosities, 573.9; and Orthopædic Surgery, 617.3.
  - .92 **Inherited Mental Disability.**  
See also Mental heredity, 136.3; Mental derangements, 132; and Mental physiology and hygiene, 131.
  - .93 **Transmitted Disease.**  
See also special diseases in 616.
  - .94 **Stirpiculture.** *See also*

# 614 Public health

- Public hygiene    Public sanitation    State medicine    Preventive medicine  
 See also 628, Sanitary engineering; 352.4 Boards of health  
 .02 Compendis    .03 Dictionaries, cyclopedias    .04 Essays    .05 Periodicals    .06 Societies, conventions    .07 Education    .08 Sanitary appliances, exhibitions    .09 History, description, legislation, reports, etc.    divided like 930-999, e. g. 614.0942  
 Public health in England
- .1 Registration and vital statistics**    See also 312 Population
- .11 Births and birthrates**
- .12 Deaths and deathrates**  
 Divided geographically like 930-999, e. g. Deathrate in England, 614.1242
- .13 Mortality at different ages**  
 For life insurance, life tables, biometry, etc. see Life insurance, 368.3, and Life contingencies, 519.5; Longevity, 612.68
- .131 Stillbirths**
- .132 Infant mortality**
- .133 Mortality in childhood**
- .134     "     " adult life**
- .135     "     " old age**
- .14 Mortality of sexes, races, etc.**
- .141     "     " the sexes**
- .142     "     " males**
- .143     "     " females**
- .144     "     " races: colored, white, indian, etc.**
- .145     "     " city and country**
- .15     "     " different occupations**    See also 613.6
- .16     "     " from special diseases**    Causes of death
- .17 Marriage**
- .18 Divorce**    See also 173.1 Family ethics
- .2 State control of medicine**
- .21 Medical education and degrees**    See 610.7; 378.2 Academic degrees
- .22 Anatomy and vivisection laws**    See 179.4 Ethics
- .23 Expert testimony and other medico-legal relations**  
 See 340.6 Medical jurisprudence
- .24 Registration of physicians, dentists, pharmacists, etc.**  
 License to practise
- .25 Regulation of medical practise**  
 See 174.2 Professional ethics, physicians
- .26 Quackery and malpractis**
- .27 Nostrums and patent medicines**    See also 614.353 Adulterations
- .28 Sale of poisons**    See 615.9 Toxicology
- .29 Medical police**



## Adulterations: inspection of articles liable to affect public health

- Public analysts    State laboratories    For chemic analysis see 543
- .31    Inspection of food    For chemic analysis see 543.1; Hygiene 613.2
- .311    Sugars    Syrups    Confectionery
- .312    Cereals    Starches    Bred
- .313    Lards    Fats    Oils    See 614.325-6 Butter, oleomargarin
- .314    Spices    Condiments
- .315    Yeast    Baking powders    Cream of tartar
- .316    Fresh food    Vegetables, fruits
- .317    Meats    Fish    (fresh)
- .318    Cand or preservd food    Vegetables, fruits
- .319    Meat    Fish    Oysters    (preservd)
- .32    Milk and milk products
- .321    Milk analysis    See also chemistry, 543.2
- .322    Milk of known purity
- .323    Milk sold to consumer
- .324    Cream    Skimd milk    Condensd milk    Buttermilk    Kumiss
- .325    Butter and its imitations
- .326    Oleomargarin
- .327    Cheese and its imitations
- .33    Other articles of food
- .34    Inspection of beverages
- For chemic analysis see 543.1; hygiene, 613.3
- .341    Fermented
- .342    Wine
- .343    Brewd
- .344    Beer
- .345    Distild
- .346    Fruit drinks: lemonade, shrub, etc.
- .347    Tea    Coffee    Chocolate    Cocoa    See also 613.37, Hygiene
- .348    Mineral waters    Soda water
- See also 613.38, Hygiene; 615.79 Therapeutics
- .349    Mixt drinks
- .35    Inspection of drugs    For chemic analysis see 543.4
- .351    Officinal or pharmacoepial drugs
- .352    Nonofficinal drugs
- .353    Empiric or patent medicins    See also 614.27 State control
- .354    Cosmetics
- .355    Poisonous cosmetics
- .36    Inspection of tobacco
- .37    Inspection of pigments, wall and other papers, textil fabrics, toys, etc.

- 614.4 **Contagious and infectious diseases: general**
- .41 Causes and origin
    - See 589.95 Bacteria, microbes; 616.01 Germ theory of disease
  - .42 Geographic distribution      Climatology
  - .43 Modes of propagation and communication
  - .44 Prevention and restriction      See also Ambulances, 614.882
  - .45 Isolation, lazarettos, etc.
  - .46 Quarantine, etc.
    - .461 Maritime quarantine
    - .462 Inland      "
    - .463 Control of rags, etc.
  - .47 Protectiv inoculation
    - .471 Against smallpox      See also 616.912, Pathology
    - .472 Variolation
    - 473 Vaccination
      - 1 Bovine vaccination
      - 2 Humanized vaccination
      - 3 Vaccinal syphilis
      - 4 Revaccination
      - 5 Vaccinisation
      - 6 Revaccinisation
      - 7 Retrovaccination
      - 8 Compulsory vaccination
      - 9 Optional vaccination
    - .474 Antivaccination
    - .475 Against cholera      See also 616.932, Pathology
    - .476 " yellow fever      See also 616.928 Pathology
    - .477 " hydrophobia      Pasteurism
    - See also 616.953 Pathology
  - .48 Disinfection
    - Houses, clothing, rags, workshops, cars, ships, camps, air, soil, persons  
sewers, vaults, excreta. Ded, see 614.64 Embalming, etc.
    - .481 Fumigating and other apparatus
      - 1 Stationary
      - 2 Portable
    - .482 Disinfectants      Antiseptics      Deodorizers
      - Treated with reference to public helth. See also Materia medica  
615.777 and 615.778
      - .483 Heat
      - .484 Chemic disinfectants
        - .485 Carbolic
        - .486 Salicylic
        - .487 Chlorids
        - .488 Copperas
      - .489
    - .49 Epidemics      Plagues

**Contagious and infectious diseases: special**

These heds are for public helth discussions only. For treatment, etc. see Pathology, 616

- Filth diseases
- .51 Typhoid or enteric fever
  - .511 Diphtheria
  - .512 Diarrheal diseases
  - .513 Cholera
  - .514 Cholera-infantum
  - .515 Dysentery
  - .516 Diarrhea
- Exanthemata
- .52 Smallpox
  - .521 Scarlet fever
  - .522 Measles
  - .523 R otheln, rubella, rubeola
  - .524 Chickenpox
  - .525 Typhus
  - .526 Malarial fevers
  - .53 Intermittent fever
  - .531 Remittent fever
  - .532 Other contagious and infectious diseases
  - .54 Yellow fever
  - .541 Phthisis
  - .542 Whooping cough
  - .543 Mumps
  - .544 Puerperal fever See also 618.72
  - .545 Leprosy
  - .547 Syphilis
  - .548 Gonorrhoea
  - .55 Parasitic diseases
  - .56 Diseases communicated from lower animals
  - .561 Anthrax Charbon
  - .562 Trichiniasis
  - .563 Hydrophobia
  - .564 Glanders
- .6 Disposal of the ded**
- See customs, 393 Treatment of the ded
- .61 Burial
  - .611 Earth burial
  - .612 Tomb burial
  - .613 Burials in churches Intramural
  - .614 Use of perishable coffins
  - .62 Cremation Crematories
  - .63 Transportation of the ded
  - .64 Embalming and disinfection of the ded Use of ice
  - See 614.48 Disinfection; 615.777 Disinfectants
  - .65 Effect of cemeteries on helth
  - .651 By water pollution
  - .652 " air "



- 614.7      **Hygiene of the air and ground**      **Nuisances**  
                     See 613.1 Air (Hygiene); 613.6 Hygiene of employment; 628.5 Industrial sanitation
- .71      Air pollution by dust and smoke      [works]
- .72      Air pollution by noxious gases, mineral trades, chemic
- .721      Carbon compounds
- .722      Carbonic oxid, carbonic acid, carburetted hydrogen
- .723      Illuminating gases      Gas works
- .724      Mineral oil refining
- .725      Sulfur compounds
- .726      Chlorin      “
- .727      Nitrogen      “
- .728      Phosphorus      “
- .729      Other
- .73      Air pollution by vegetable trades
- .731      Brewing
- .732      Distilling
- .733      Vinegar making
- .734      Sugar refining
- .735      Charcoal burning
- .736      Varnish making
- .74      Air pollution by animal trades
- .741      Slaughter houses      Abattoirs      Fish
- .742      Rendering works      Boneboiling      Tripe and gut cleaning
- .743      Pork packing      Lard refining
- .744      Soap making
- .745      Tanning
- .746      Glue making
- .747      Lampblack
- .748      Commercial fertilizers
- .75      Storage and handling of noxious and offensiv materials
- .76      Other air pollutions      See 628 Sanitary engineering
- .761      Stables      Stable manure
- .762      Hog styres
- .763      Offal      Ded and diseased animals and fish
- .764      Vaults      Cesspools      Water closets, privies, urinals, night soil
- .765      Sewers and sewer outlets      Sewer gas
- .77      Conditions of soil as affecting helth
- Topografy      Sanitary      Surveys
- .771      Analysis of soils      See 543.7 Chemistry
- .772      Soil moisture
- Hygiene of natural water courses and of marshes.      See 613.14 Hygiene
- .773      Ground atmosphere      See 613.14 Hygiene
- .774      Solid constituents of soil
- .775      Malarious soils      See 613.14 Hygiene
- .776      Recovery of soils from pollution
- .78      Air and ground in towns
- .781      Laying out of towns and streets
- .782      Subways and elevated ways      See 628.47 Sanitation of towns
- .783      Parks      Air spaces
- .784      Hight of bildings and proportion of occupiable area
- See 614.85 Bilding laws

- 614.8      **Protection of human life from accidents, casualties, etc.**  
             See 613.66 Hygiene of employment
- .81      Drowning
- .811      Rescue of the drowning
- .812      Resuscitation of the drowned      First help      Pulmotors
- .82      Suffocation  
             By gases, in vaults, mines, etc.; see also 622.8 Mining dangers. By illuminating gases
- .83      Explosions
- .831      Manufacture and storage of explosivs and combustibles  
             See 662 Chemic technology
- .832      Gunpowder
- .833      Dynamite, etc.
- .834      Inspection of kerosene, etc.
- .835      “      of illuminating gas
- .836      “      of electric apparatus
- .837      “      of steam boilers
- .84      Fires
- .841      Fire prevention
- .842      “      detection
- .843      “      extinction      See 352.3 Fire department
- .844      Automatic
- .845      Chemic extinguishers
- .846      Fire engins      Water towers      See 621.68 Pumping engins
- .847      “      escapes and other apparatus
- .848      “      exits, etc. from public bildings
- .85      Bilding laws      Inspection of bildings .  
             See 614.784 Hight of bildings
- .86      Protection of travelers
- .861      Travel on land
- .862      “      “      highways
- .863      “      “      railroads
- .864      “      “      water
- .865      Lighthouses, buoys, etc.
- .866      Pilots
- .867      Boats, life preservers, etc.
- .868      Rescue of shipwreckt      Lifesaving servis
- .87      Exposure to cold      Hospice of St Bernard
- .88      Aid to injured
- .881      Ambulance
- .882      Ambulance for contagious diseases      See also 614.44
- .883      Bed wagon
- .9      **Hygiene of animals      Veterinary sanitation**
- .91      Infectious diseases of domestic animals
- .92      Parasites of animals      See 591.69 Economic zoology
- .93      Animal diseases communicable to man      See also 614.56
- .94      Care and housing of animals
- .95      Feeding of animals
- .96      Transportation of animals
- .97      Methods of slaughtering
- .971      Painless extinction of animal life

# 615 Materia medica and therapeutics

.02 Compendis .05 Pharmaceutic journals .06 Pharmaceutic societies  
.07 Education, schools of pharmacy .09 History

## .1 **Materia medica      Drugs      Pharmacology**

For examining boards, laws, etc. see 614.24 Registration of pharmacists. See also 614.35 Adulteration of drugs; 543.4 Chemic analysis

### .11 Pharmacopœias

### .12 Dispensatories

### .13 Formularies

### .14 Prescription writing      Posology

## .2 **Inorganic drugs**

Divided like 546. 615.218 Phosphorus; 615.258 Mercury; 615.272 Iron. See also note to 615.7

## .3 **Organic drugs**

See also note to 615.7

### .31 Carbon compounds      Divided chemically like 547

### .32 Vegetable products      Divided botanically like 580

### .33 Vegetable products      Divided by character

1 Starches    2 Sugar    3 Glucosids    4 Tannins    5 Gums    6 Drugs  
containing alkaloids    7 Bitters    8 Organic acids

### .34 Fixed oils and acids

### .35 Ferments: diastase, pepsin, etc.

### .36 Organotherapy

### .37 Serotherapy

Opsonic theory; see also physiology, 612.118223

Vaccine therapy; see also public health, 614.473 Vaccination

## .4 **Practical pharmacy**

## .5 **Therapeutics      Action of medicins in general**

### .51 Certainty of medicins

### .52 Antagonism of medicins

### .53 Law of similars      Homeopathy

Homeopathic works are class with the subjects treated. This head is for Hahnemann's theory only

### .54 Influence of age

Infant therapeutics      Therapeutics of old age

### .55 Influence of sex

### .56 Influence of environment

### .57 Influence of idiosyncrasy

## .6 **Administration of medicins**

### .61 By stomach

### .62 " rectum

### .63 " subcutaneous tissue      Hypodermic medication

### .64 " lungs      Inhalation      See also 612.385 Absorption

### .65 " veins      Transfusion of blood

### .66 " serous and mucous membranes      Peritoneum, vagina, etc.

See also 612.387 Absorption

### .67 " skin      Baths

See also physiology 612.384

**Medicins groupt by effects**

Treatises on specific drugs, digitalis, ergot etc. are clast in the divisions of materia medica, 615.2-615.3; iron, 615.272; digitalis, 615.32381

- .71 **Drugs acting on circulatory system**
- .711 **Stimulants**  
Alcohol, ammonia, digitalis, coffee, ergot
- .716 **Depressants**  
Aconite, veratrum group, nitrites
- .72 **Drugs acting on respiratory system**
- .721 **Expectorants**
- .726 **Errhines Sneezing**
- .73 **Drugs acting on digestiv system**
- .731 **Emetics**  
Ipecac, mustard, metallic salts, apomorphin
- .732 **Cathartics**  
1 Laxativs    2 Salines    3 Purgativs    4 Hydragogs    5 Drastics  
6 Mercurials
- .733 **Anthelmintics**
- .734 **Aids to digestion**  
1 Bitters, tonics    2 Ferments, pepsin, pancreatin, etc.    3 Acids, antacids
- .735 **Demulcents, emollients, etc.**  
Bismuth, oxalate of cerium, etc.
- .74 **Drugs acting on glandular system**
- .741 **Sialagogs (Saliva)**
- .742 **Cholagogs (Bile)**
- .743 **Diaphoretics (Perspiration)**  
Pilocarpin, heat, exercise
- .75 **Antipyretics Antiperiodics**  
Quinin, salicylates, coal-tar products, kairin, antipyrin, antifebrin, cold, baths. See also 613.41 Baths
- .76 **Drugs acting on genito-urinary system**
- .761 **Diuretics**  
Water, citrates, acetates, digitalis, caffein, copaiba
- .766 **Uterins Oxytotics**  
Viburnum, ergot, etc.
- .77 **External agencies**
- .771 **Irritating**
- .772 **Astringents**
- .773 **Rubefacients**
- .774 **Epispastics Blisters**
- .775 **Escharotics Caustic potassa**
- .776 **Protectiv Emollient**  
Fats, oils, powders, starch, bismuth, oxld of zinc
- .777 **Deodorants Disinfectants**  
See 614.48 Disinfection; 614.64 Disinfection of ded
- .778 **Antiseptics Germicides**

- 615.78      Drugs acting on nervous system      See also 615.95 Neurotic poisons
- .781      Anesthetics      Chloroform, ether
- .782      Hypnotics      Chloral, bromids
- .783      Analgesics      Opium
- .784      Mydriatics      Belladonna
- .785      Excitants      Strychnin
- .786      Depressants      Conium
- .788
- .789      Other drugs  
             Camphor    valerian, asafoetida
- .79      Mineral waters      See also 613.38 Hygiene; 553.7 Occurrence in nature
- .8      **Other remedies**
- .81      Mechanical remedies
- .811      Bloodletting      Venesection      Cupping
- .812      Setons and issues
- .813      Bandages      Ligatures
- .814      Acupuncture
- .815      Pneumatic aspiration
- .82      Manipulation      Massage      Osteopathy  
             See also 613.71 Gymnastics
- .83      Imponderable remedies
- .831      Light      Blue glass
- .832      Temperature: heat, cold
- .833      Moisture
- .834      Climate      See also 613.1 Hygiene
- .835      Altitude  
             Decrease of oxygen and increase of nitrogen with increasing elevation
- .836      Pneumatic differentiation
- .837      Music
- .84      Electricity      Electrotherapeutics  
             See also 537.87 and 621.3915
- .85      Cures
- .851      Mind cure      Influence of mind on body  
             See also 130 Mind and body
- .852      Faith cure      Christian science      See 265.8 Religion  
             See also state control of medicin, 614.24; Christian science theology,  
             230.99; sects 289.9
- .853      Hydrotherapy      Water cure
- .854      Food cures: grapes, milk, beef, etc.
- .855      Thomsonianism      Herb doctors
- .856      Perkinism      Metallic tractors
- .86
- .87
- .88      Patent medicins
- .89      Ancient and mediæval remedies  
             Including those of modern uncivilized peoples



- .9 Toxicology Poisons**  
 For detection of poisons, see 543.5; Sale of poisons, 614.28; Poisons wound  
 617.148
- .91 Irritant poisons**
- .92 Mineral irritants**
- .921 Acid poisons**
- .922 Alkaline poisons**
- .923 Nonmetallic poisons**
- .924 Phosphorus** See also 615.218 Drugs
- .925 Metallic poisons**
- .926 Arsenic** See also 615.219 Drugs
- .927 Mercury** See also 615.258 Drugs
- .928 Lead Painters colic** See also 615.251 Drugs
- .929 Copper** See also 615.256 Drugs
- .93 Vegetable irritants**  
 Hellebore, aloes, croton oil, etc.
- .94 Animal poisons**  
 Cantharides, diseased meat, ptomaines, tyrotoxin, etc.
- .95 Neurotic poisons**  
 See also 615.78 Drugs acting on nervous system
- .96 Cerebral or narcotic poisons** Carbonic oxid and acid
- .961 Opium**
- .962 Prussic acid**
- .963 Cyanids**
- .964 Alcohol**
- .965 Ether**
- .966 Chloroform**
- .967 Chloral hydrate**
- .97 Spinal poisons**  
 Nux vomica, strychnia
- .98 Cerebrospinal poisons**  
 Aconite, belladonna, lobelia
- .99 Cerebrocardiac poisons**  
 Digitalis, tobacco

# 616 Pathology Diseases Treatment

May be subdivided by 0 like 610, if wisht. Use 616.01 for etiology, germ theory, classification of diseases. Use 616.07 for diagnosis, study of disease, and subdivide it as follows: 1 Pulse 2 Tong 3 Eye, skin, etc. 4 Auscultation, percussion 5 Thermometry 6 Chemistry, urin analysis 7 Microscopy 8 Pathologic anatomy 9 Postmortem examination

- .1 Diseases of circulatory system**
- .11 Membranes of the hart
- .12 Hart Angina pectoris
- .13 Arteries
- .14 Veins
- .15 Blood
- .2 Diseases of respiratory system**
- .201 Croup
- .202 Hay asthma, hay fever
- .203 Influenza, epidemic catarrh
- .204 Whooping cough See also 614.543
- .205 Coryza, catarrh
- .206 Asphyxia
- .21 Nose Naso-pharyngeal space
- .22 Larynx
- .23 Trachea Bronchi Bronchitis Asthma
- .24 Lungs
- .241 Pneumonia, lung fever
- .242 Congestion
- .243 Hemorrhage
- .244 Abscess
- .245 Gangrene
- .246 Phthisis, consumption See also 614.542
- .247 Embolism and aneurism of pulmonary artery
- .248 Emphysema
- .249 Collapse
- .25 Pleura Pleurisy
- .3 Diseases of the digestiv system**
- For diseases of teeth see 617.6
- .31 Mouth: tung, fauces Sore throat, quinsy, mumps  
See also 614.544
- .32 Pharynx Esophagus
- .33 Stomach Gastritis, dyspepsia, vomiting
- .34 Intestins Hernia, diarrhea, constipation, colic
- .35 Rectum Anus Piles
- .36 Liver Gall bladder Jaundis
- .37 Pancreas
- .38 Peritoneum Omentum Mesentery Peritonitis
- .39 Dietetic diseases  
Surfit, starvation, scurvy, dyspepsia

- 616.4 Diseases of the lymphatic system**
- .41 Spleen
  - .42 Lymphatics: thoracic duct
  - .43 Thymus
  - .44 Thyroid body      Goïter, Graves disease
  - .45 Suprarenal bodies
- .5 Dermatology      Skin diseases**
- .51 Inflammatory affections
    - Diffuse, papular, scaly, nettlerash, hives
  - .52 Catarrhal, vesicular, pustular      Eczema, shingles
    - See also 614.561
  - .53 Disorders of sebaceous glands
  - .54 Hypertrofies      Atrofies
    - Corns, warts, white hair, baldness
  - .55 New formations      Pigmentary changes
    - Albinism, freckles
  - .56 Disorders of sweat glands
  - .57 Parasitic diseases      See 616.96 Parasitic diseases
  - .58 Other skin diseases
    - Chilblain, frostbite, chaps
- .6 Diseases of genito-urinary system**
- For diseases of women, see 618
  - .61 Kidneys      Ducts      Bright's disease
  - .62 Bladder      Calculus
  - .63 Urinary disorders      Diabetes
  - .64 Male urethra
  - .65 Prostate
  - .66 Penis
  - .67 Scrotum
  - .68 Spermatic cord      Testes
  - .69 Functional diseases of male generativ organs      Sper-  
matorrhea, impotence
- .7 Diseases of organs of locomotion**
- .71 Bones (except spine)
  - .72 Joints (except spine)
  - .73 Spine      Curvature
  - .74 Muscles
  - .75 Tendons      Fasciæ
  - .76 Bursæ      Sheaths of tendons
  - .77 Connectiv tissue
- .8 Diseases of nervous system**
- .81 Diseases relating to cerebrospinal circulation      Apoplexy
  - .82 Diseases relating to cerebrospinal meninges
  - .83 Structural diseases of brain and cord
  - .84 Functional diseases of brain and cord
    - For insanity see 132.1
  - .841 Vertigo
  - .842 Paralysis
  - .843 Neurasthenia
  - .844 Spinal irritation
  - .845 Eclampsia, convulsions

- 616.85 Neuroses
- .851 Choreia, St Vitus dance
- .852 Hysteria  
See 135 Somnambulism, 132.4 Catalepsy, 132.3 Hypochondria
- .853 Epilepsy
- .854 Tetanus, lockjaw
- .855 Aphasia
- .856 Anesthesia, hyperesthesia
- .857 Megrim, sick headache
- .86 Neuroses due to special poisons
- .861 Alcoholism See also Dipsomania, 132.7
- .862 Metallic tremor
- .87 Diseases of nervs Neuralgia, cramp
- .88 Diseases of sympathetic system
- .9 **General diseases**
- .91 Infectious diseases
- .911 Eruptiv fevers
- .912 Small pox See also 614.471 and 614.521
- .913 Cowpox
- .914 Chickenpox See also 614.525
- .915 Measles See also 614.523
- .916 Rubella, rubeola, r otheln See also 614.524
- .917 Scarlet fever, scarlatina See also 614.522
- .92 Other fevers General works on fevers  
See also 612.57 Animal heat
- .921 Dengue, breakbone fever
- .922 Typhus See also 614.526
- .923 Plague
- .924 Relapsing fever, famin fever
- .925 Cerebrospinal fever
- .926 Simple continued fever
- .927 Enteric fever, typhoid fever See also 614.511
- .928 Yellow fever See also 614.476 and 614.541
- .93 Diphtheria Cholera Malarial fever
- .931 Diphtheria See also 614.512
- .932 Asiatic cholera See also 614.475 and 614.514
- .933 Sporadic cholera
- .934 Epidemic diarrhea See also 614.517
- .935 Dysentery See also 614.516
- .936 Malarial fever See also 614.53
- .94 Septic diseases
- .941 Phagedena
- .942 Erysipelas
- .943 Pyemia
- .944 Septicemia

- 616.95 Venereal diseases      Hydrophobia, etc.  
 .951      Syphilis      See also 614.547  
 .952      Gonorrhoea      See also 614.548  
 .953      Hydrophobia      See also 614.477 and 614.563  
 .954      Glanders      See also 614.564  
 .955      Horsepox  
 .956      Splenic fever  
 .96      Parasitic diseases      See also 614.55  
 .961      Animal parasites  
             See 591.69 Economic zoology; 614.92 Parasites of animals  
 .962      Entozoa  
 .963          Trematoda, flukes  
 .964          Cestoda, tapeworms  
 .965          Nematoda      Round worms, threadworms, trichinae  
             See also 614.562  
 .966          Acanthocephala, Thornheaded worms  
 .967          Insecta parasitica      Maggots  
 .968      Ectozoa  
             1      Insecta parasitica: mosquitoes, gnats, bedbugs, fleas, lice  
             5      Arachnida parasitica: mites, ticks  
             8      Suctoria parasitica, leeches  
 .969      Vegetable parasites      See 581.69 Economic botany  
 .97      Effects of poisons      See 615.9 Toxicology  
 .98      Effects of injuries and climate  
 .981          Presence of foreign bodies  
 .982          Mechanical injuries  
 .983          Excessive exertion and strain  
 .984          Excessive venery  
 .985          Privation  
 .986          Exhaustion  
 .987          Chemical agents  
 .988          Climate  
 .99      Other general diseases  
 .991          Rheumatism, rheumatic fever      Gout  
 .992          Tumors  
 .993              Nonmalignant: cysts, wens  
 .994              Malignant: cancer  
 .995          Tubercle  
 .996          Scrofula      Rickets  
 .997          Myxedema      Cretinism  
 .998          Leprosy      See also 614.546

# 617 Surgery

May be subdivided by o like 610, if wisht

## .1 Injuries

- .11 Burns and scalds
- .12 Lightning and electric shock
- .13 Contusions and abrasions
- .14 Wounds
  - .141 Incised
  - .142 Contused
  - .143 Lacerated
  - .144 Punctured
  - .145 Gunshot See 617.99 Military surgery
  - .146 With lodgment of foren bodies
  - .147 With complete separation of parts
  - .148 Poisons See 615.9 Toxicology
- .15 Fractures
- .16 Dislocations
- .17 Sprains
- .18 Asphyxia

## .2 Results of injuries

Constitutional effects and other complications. See also 616.94 Septic diseases

- .21 Shock
- .22 Inflammation
- .23 Abscess Sinus Fistula
- .24 Ulcers Sores
- .25 Mortification Gangrene
- .26 Traumatic fever
- .27 Tetanus See also 616.854

## .3 Orthopedic surgery Deformities

For convenience the whole subject of deformities is clast here, tho many of them have no surgical treatment. See also 573.8 Dwarfs and giants; 573.9 Monstrosities; 613.91 Congenital defects

- .31 Incomplete development or growth
  - Divided like 611 Anatomy
- .32 Incomplete coalescence of parts: harelip
- .33 Coalescence of parts
- .34 Extension of commissure (Apparent duplication)
- .35 Coalescence of fetuses Siamese twins
- .36 Supernumerary parts or organs: extra fingers or toes
- .37 Disproportionate growth of parts
- .38 Transposition or displacement of parts
- .39 Congenital distortions, including talipes, club foot

## .4 Surgical operations

- .41 Circulatory system
- .42 Respiratory system
- .43 Digestiv system
- .44 Glandular and lymphatic system
- .45
- .46 Genito-urinary system
- .47 Motor and integumentary system
- .48 Nervous system

## 617.5

**Regional surgery**

- .51      Hed      Trephining  
 .52      Face      Mouth      See 617.6, Dentistry; 617.7, Eye; 617.8, Ear  
 .53      Neck      Throat  
 .54      Chest  
 .55      Abdomen  
 .56      Pelvis  
 .57      Upper extremities      Artificial arms, hands, etc.  
 .58      Lower extremities      Artificial legs, feet, etc.

**.6      Dentistry      Diseases of teeth**

- .61      Diseases of dental pulp  
 .62      Diseases of dentin and cementum  
 .63      Diseases of dental periosteum  
 .64      Malposition and malformation of teeth  
 .65      Odontalgia, toothake  
 .66      Extraction of teeth  
 .67      Stopping teeth  
 .68      Transplanting teeth  
 .69      Artificial teeth

**.7      Ophthalmic surgery      Diseases of the eye**

- .71      Conjunctiva      Cornea      Sclerotic      Ophthalmia  
 .72      Iris      Choroid      Ciliary body  
 .73      Optic nerv      Retina  
 .74      Lens and its capsule      Vitreous humor      Affections of  
                     the globe      Cataract  
 .75      Disorders of vision

Myopia, shortsightedness, astigmatism, colorblindness, daltonism. See also  
 physiology, 612.845

- .76      Muscular apparatus      Lacrimal apparatus  
                     Strabismus, squint

- .77      Eyelids  
 .78      Orbit and neighboring parts  
 .79      Artificial eyes

**.8      Diseases of the ear**

- .81      Affections of external ear  
 .82      Auricle  
 .83      Auditory canal  
 .84      Affections of middle ear  
 .85      Membrana tympani  
 .86      Eustachian tubes  
 .87      Mastoid cells  
 .88      Affections of internal ear

.89

- 617 9      **Operativ surgery**  
                     See 615.781 Anesthetics
- .91      Armamentaria      Surgical instruments
- .92      Orthopedic appliances      Splints, trusses, etc.  
                     See 617.3 Orthopedic surgery
- .93      Surgical dressings
- .94      Amputation      Resection
- .95      Plastic surgery
- .96
- .97
- .98
- .99      Military surgery
- 618      **Diseases of women and children**
- .1      **Gynecology      Diseases of women**
- .11      Ovary
- .12      Fallopian tube
- .13      Periuterin diseases
- .14      Uterus and cervix
- .15      Vagina
- .16      Vulva
- .17      Functional and symptomatic disorders  
                     Diseases of menstruation      Leucorrhœa      Sterility
- .18
- .19      Diseases of breast
- .2      **Obstetrics**
- .21      **Pregnancy      Physiology**
- .22      Diagnosis      Signs of pregnancy
- .23      Duration
- .24      Hygiene      Management
- .25      Multiple pregnancy: twins, etc.
- .3      **Pathology of pregnancy**  
                     Diseases of pregnancy and their treatment
- .31      Ectopic gestation      Extra-uterin pregnancy
- .32      Pathology of ovum
- .33      Deth and retention of fetus
- .34      Pathology of fetal appendages
- .35      Decidua
- .36      Placenta
- .37      Amnion
- .38      Umbilic cord
- .39      Abortion      Miscarriage      Stillbirth      Molar pregnancy  
                     See 173.4 Infanticide; 340.6 Medical jurisprudence; 343 Criminal law
- .4      **Parturition      Labor      Physiology**
- .41      Mechanism of labor
- .42      Presentations      Positions
- .43      Clinic course and phenomena
- .44      Conduct of normal labor      Management



- 618.5 **Pathology of labor**  
 Abnormal labor from faults  
 .51 of powers Anomalies of expellent forces  
 .52 of passages Mechanical obstacles to expulsion of fetus  
 .53 of child Abnormalities of fetus See 617.3 Deformities
- Complications**
- .54 Hemorrhage  
 .55 Rupture or laceration of genital tract  
 .56 Retention of placenta  
 .57 Inversion of uterus  
 .58 Prolapsus funis  
 .59 Other complications
- .6 **Puerperal state** **Physiology**  
 Management, including care of child
- .7 **Pathology of puerperal state** **Puerperal diseases**  
 .71 Diseases of lactation: milk fever, mastitis, etc.  
 .72 Puerperal fever See 614.545 Public helth  
 .73 Metritis Peritonitis See also 616.38 Cellulitis  
 .74 Septicemia See also 616.944 Pyemia See also 616.943  
 .75 Convulsions See 616.845 Eclampsia  
 .76 Puerperal mania See 132.1 Insanity  
 .77 Phlebitis Venous thrombosis Phlegmasia dolens  
 See 616.14 Diseases of veins
- .78 Other puerperal affections  
 .79 Sudden deeth after delivery
- .8 **Obstetric operations**  
 .81 Application of lever and forceps  
 .82 Version  
 .83 Embryotomy  
 .84 Dilatation of os and cervix  
 .85 Symphyseotomy  
 .86 Cæsarian section  
 .87 Removal of placenta  
 .88 Induction of labor Removal of ovum  
 .89 Intra-uterin injections Antiseptics in midwifery
- .9 **Pediatrics** **Diseases of children**
- 619 **Comparativ medicin** **Veterinary**  
 .1 Horses  
 .2 Cattle  
 .3 Sheep, goats  
 .4 Swine  
 .5 Poultry  
 .6 Birds  
 .7 Dogs  
 .8 Cats  
 .9 Other

# 620 Engineering

See also 690 Blding; 721 Architectural construction

## SUMMARY

- 620.1 Applied mechanics      Engineering materials
- 621    **Mechanical engineering**
  - .1    Steam engineering
  - .2    Hydraulic engins or motors
  - .3    Electric engineering
  - .4    Air and gas engins and other motors
  - .5    Pneumatic machinery      Refrigerating machines
  - .6    Blowing and pumping engins
  - .7    Mills      Factories      Engineering works
  - .8    Millwork      Hoisting and conveying machinery
  - .9    Machine tools
- 622    **Mining engineering**
- 623    **Military and naval engineering**
  - .8    Naval architecture
- 624    **Bridges and roofs**
- 625    **Railroad and road engineering**
- 626    **Canal engineering**
- 627    **River, harbor and general hydraulic engineering**
- 628    **Sanitary engineering**
- 629    **Other engineering industries**
  
- .01    **Statistics**
- .02    **Quantities and cost**
- .03    **Contracts and specifications**
- .04    **Designs and drawings**
- .05    **Executiv**
- .06    **Working and maintenance**
- .07    **Laws and regulations**
- .08    **Patents**
- .09    **Reports**
  
- .1    **Applied mechanics      Engineering materials**
  - Class here general works on materials with reference to their fitness in engineering      See also 691 Blding materials
  
- .11    **Strength of materials      General theory**
  - General works considering various materials. For particular materials see 620.12-.19      Provision is made below for classing tests on 2 different bases: 1) by character of test, 2) by material tested. Class under material rather than under test when the two conflict. See also note under 620.112<sup>4</sup>
  - For theory or mechanics of structures see 624; for theories of construction of bildings see 690.1
  
- .111    **General**
  - This hed is left for specialists wishing to analyze general works or collect clippings and notes too limited for .11 yet not specific enough to be put with a particular test or material. Libraries are unlikely to need any general hed except 620.11

## Tests Factors affecting strength

- Kinds of tests. Directions for making various tests, laboratory manuals  
See note to 620.11
- 1 General: influence of temperature, selection of test pieces, etc.  
2 Corrosion Wethering Protection against deteriorating influences  
3 Elastic limit tests: plasticity, fatigue, deformation  
See also 620.11246 Repeated stress
- 4 Tension, compression, torsion, flexure, shearing  
Class here combined tests as well as general works covering these tests  
If wisht, subdivide farther as followe:
- 41 Tensil tests  
42 Compression tests  
43 Torsion "  
44 Flexure (transverse) tests  
45 Shearing tests  
46 Repeated stress tests
- 5 Impact Repeated shock tests  
Crystallization and formation of cleavage planes
- 6 Hardness tests  
7 Special tests  
Varying for different materials
- 8 Tests on special shapes and forms  
82 Plates and structural shapes  
Bars, rods, angles, beams: T, bulb, I, and channel beams
- 83 Columns, bilt columns Tubes, pipes, cylinders  
84 Rollers Spheres, solid or hollow Ball bearings  
85 Springs  
86 Hooks Chains Hoops Rings  
87 Rivets Bolts Screws Nails  
Riveted joints of plates
- 88 Wire Wire rope Cables Hawsers  
89 Other forms  
9 Other tests
- .12 Tests of timber See note to 620.11  
.13 Stone Cement Concrete  
.132 Stone  
.135 Cement  
.136 Concrete  
.137 Reinforced concrete  
.139 Other: artificial stone  
.14 Brick, tile, etc.  
For glass see 666.1 Manufacture of glass, 691.6 Glass as a bilding material.  
In engineering it is an accessory material not requiring a place under strength tests
- .15 Masonry adhesivs  
Cement, mortar, plaster of paris, etc. See also bilding materials 691.5  
Lime, plaster, cement
- .17 Iron and steel  
.18 Other metals  
.19 Other materials  
.195 Mineral: asbestos, mineral wool  
.196 Asphalt Tar  
.197 Vegetable: paper, hemp, etc.  
.198 Animal: hair, hide, bone, etc.  
.199
- .2 Compends Handbooks Kent, Trautwine  
.3 Dictionaries, cyclopedias  
.4 Essays  
.5 Periodicals  
.6 Societies  
.7 Study and teaching Instruments  
.8 Tables and calculations  
.9 History of engineering

## 62I Mechanical engineering

May be subdivided like 620.0 and by form numbers

- .I **Steam engineering**
  - Subdivide like 620 and 620.0, but use 621.101 as below. Other generalities of steam engineering are in 621.11 and 621.18
  - .101 Applied thermodynamics
    - Theory and use of steam in steam engine General energy considerations
    - Steam economy
  - 1 General
    - Expansion, entropy; extension of expansion approaching vacuum (condensers) superheating, cylinder condensation, jacketing, etc. For condensers, superheaters, etc. see 621.197
  - .11 Mechanism of steam engine Design of engine parts
  - .111 General
  - .112 Types of engines: structural
    - Reciprocating engines in general. Types specified below are all reciprocating, except 1 Primitiv and 9 Other
    - 1 Primitiv
    - 21 Single acting
    - 22 Double acting
    - 3 According to transmission of motion
    - 32 Direct connected
    - 33 Indirect: beam connected
    - 4 According to position
    - 42 Horizontal
    - 44 Vertical
    - 45 Oscillating
    - 46 Inclined
    - 5 According to terminal pressure
    - 52 Condensing
      - In early period called 'low pressure'
    - 53 Noncondensing
      - In early period called 'high pressure'
    - 6 According to expansion
    - 61 Single expansion
    - 62 Compound
      - Double expansion: cross compound
      - " " tandem "
      - " " angle "
    - 66 Triple expansion
    - 67 Quadruple expansion
    - 9 Other types
    - 95 Steam turbins
      - Better class 621.165
    - 96 Rotary engines
      - Better class 621.166
  - .12 Marine engines
    - For propulsion see 623.8 Naval architecture
    - .121 General
      - See also 621.11 and 621.18
    - .122 Types of marine engines
      - 1 Primitiv
        - Inventions of Papin, Perier, Fulton, Stevens, etc
      - 2 Beam and side lever engines
      - 4 Horizontal, inclined, vertical engines
      - 5 Oscillating
      - 8 Launch engines
      - 9 Other special engines
    - .123 Marine steam turbins
      - See also 621.165

- 621.13 Locomotives
- .131 Theory of the locomotiv
- 1 Adhesion Tractiv force Horsepower
- 2
- 3 Tests
- .132 Types
- Variations modifying tractiv force and speed, and affecting more than 1 class of mechanism. For variations in steam apparatus (oil burning locomotivs, etc.) see 621.133 and 621.134
- 1 Primitiv forms
- 2
- 3 Types according to distribution of wheelbase and load  
Express by Whyte nomenclature for wheel combinations
- 5
- 6 Types according to purpose
- 62 Freight or goods engines Hog engin
- 63 Yard, switch or shunting engines
- 65 Passenger engines
- 67 Mountain "
- 68 Mining "
- 69 Other special locomotivs
- 8 Peculiar types  
Combined 'engin and coach wagon'
- 9 Types in different countries  
Subdivided like 940-999; e.g. English locomotivs 621.132942
- .133 Locomotiv boilers Production of steam
- Better clast in 621.18423, as boilers of locomotiv type serv many other purposes For boiler management see 621.193
- 1 Combustion Fuels Petroleum Fuel consumption  
See also 621.18357
- 2 Grate and ashpit Firebox Stays  
See also 621.1835
- 3 Shell and tubes
- 4 Smokebox and stack Spark arresters  
See also 621.1838
- 5 Exhaust pipe
- 6 Dome
- 9 Miscellaneous fittings  
Gage cocks, safety valvs, whistles, pumps, injectors, etc.
- .134 Engin of the locomotiv
- 1 Driving mechanism Cylinders, pistons, rods
- 2 Steam distribution Valvs and valv gears
- 22 Special types of valvs and valv gear
- 3
- 4 Compound principle  
Distribution in compound locomotivs
- 5 Lubrication of locomotiv
- 9 Other parts of locomotiv: throttle, etc.
- .135 Running gear
- .136 Tenders
- 1 Design, weight, brakes, etc.
- 2 Appliances
- 3 Taking water without stopping; track tanks; water scoops
- .139 Miscellaneous parts  
Cowcatcher or pilot, hedlight, whistle, bell, sandbox

- 621.14 Traction engines Road locomotivs  
 Selfpropelling engines for hauling over roads or ground, or doing other work by locomotion. For railway engines see 621.13. For stationary hauling engines see 621.162  
 Hauling may be accomplished either by engines applying their power directly and moving with the load, i.e. locomotiv (621.13) over rails; or traction engines (621.14) over ground or roads; or by engines applying their power indirectly thru cables, etc. and standing in a fixt position either temporarily (621.15) or permanently (621.16)
- .141 Theory General
- .142
- .143 Boilers  
 Better clast in 621.18423; 621.143 if used is limited to discussion of those suitable to traction engines
- .144 Types Traction engines for special uses
- .145 Compressing machines Steam rollers
- .146 Agricultural: plows, reapers, etc.
- .15 Portable engines  
 Engines that may be moved from place to place, but that remain in a fixt position when working. If selfpropelling, the selfpropulsion is incidental. For fire engines and other pumping engines see 621.64
- .151 Theory General
- .152 Types, structural etc.
- .153 Boilers  
 Better clast in 621.18423. If used, limited to discussion of those suitable to portable engines
- .154 Portable engines for special purposes  
 Hoisting, dredging, drilling, etc. See also 621.86 Hoisting and conveying machinery; 621.68 Fire engines; 627.7 Dredges
- .156 Agricultural: threshers, etc.
- .159 Semistationary engines Various types
- .16 Stationary engines  
 Engines fixt in position; e.g. those running factory machinery, cables, elevators, etc. For management see 621.193. For boilers see 621.18424
- .161 Theory and general
- .162 Types by use: hauling, dredging, etc.  
 For pumps see 621.64. For types clast by engine mechanism see 621.164
- .163 Stationary boilers  
 Better clast in 621.18424 with only reference here
- .164 Types according to characteristics of engine mechanism or steam distribution  
 When mechanism and steam distribution conflict, class according to mechanism; e.g. compound releasing-gear engines 621.1644 rather than 621.1647. Each type may be subdivided like 621.11; e.g. vertical throttling engines 621.1642244
- 1 General
- 2 Throttling engines
- 3 Automatic shaft governor engines
- 4 Releasing gear (Corliss) engines Drop cutoff
- 5 Single acting engines: Westinghouse or Willans type
- 6 Simple engines
- 7 Compound engines, triple expansion, etc.

## Steam turbines

See also 621.123 Marine steam turbines

- 1 **Theory**
- 11 Methods of calculation
- 12 Vanes and buckets
- 13 Guide vanes and nozles
- 14 Stresses in rotor or disc
- 15 Windage
- 2 **Types**
- 22 Velocity turbines
- 23 Pressure turbines
- 24 Combined velocity and pressure turbines
- 3 **Construction Details of design**
- 32 Vanes Buckets
- 33 Guide vanes Nozles
- 34 Rotor Discs
- 35 Valvs, governors, safety device
- 36 Thrust balancing
- 37 Mass "
- 38 Casing, etc.
- 39 Bearings, etc.

## .166 Rotary engines

.169

## .18 Steam generation and transmission

Fuels, furnaces, boilers, piping, power plants

For steam heating see 697.5

## .181 General

## .182 Fuels Combustion

- 2 **Fuels for boiler heating**
- For fuels in general and fuel analysis see 662.6
- 22 Solid fuels: coal, lignite, wood, sawdust, peat
- 23 Liquid fuels: tar, petroleum, alcohol
- 24 Gaseous fuels: gas from blast furnaces, coke ovens; natural gas
- 25 Composit fuels: city refuse, coal dust, trash
- 3 **Fuel consumption**
- Practical experiments with a single fuel
- 4 **Comparativ consumption**
- Practical experiments with various fuels

## 183 Furnace Draft

- 1 **General**
- Heating and grate surfaces
- 2 **Types of furnaces**
- 3
- 4
- 5 **Furnace parts and construction details**
- 52 Grates
- 53 Stationary grates
- 54 Shaking, dumping and step grates
- 55 Ashpits Furnace doors
- 57 Burners for liquid fuel
- 6 **Mechanical stokers**
- 62 With traveling grate
- 63 " rocking "
- 64 " step grate (Roney grate)
- 65 " plunger
- 66 " screw
- 7 **Other appliances**
- 77 Pulverized fuel appliances
- 78 Fuel and ash conveyers Ash removers
- See also 621.86 Hoisting and conveying machinery
- 8 **Chimneys Stacks Draft appliances**
- Smoke consumers. For smoke prevention see 621.1941 Firing
- 82 Natural draft Dampers Uptakes
- 84 Induced draft
- 85 Forced draft

## Boilers

- For boiler plants see 621.19
- 1**     **General**
- 13**    Boiler economy     Tests     Feedwater
- 2**     **Types**
- 22**     Marine
- 23**     Locomotiv, traction, portable
- 24**     Stationary
- 25**     Firetube boilers (tubular)
- 252**    Internally fired
- 253**    Externally "
  - 26**     Water tube boilers (tubulous)
  - 27**     Flash generators     Instantaneous vaporizing boilers
- 5**     **Boiler construction**     Setting     Parts
- 52**     Shell     Heds     Tubesheets     Domes     Drums
  - Riveted joints, staying and bracing
- 53**     Tubes     Ferules     Rings
- 54**     Casing
- 55**     Inspection and cleaning parts: man and hand holes, cleanouts, covers
- 56**     Setting and hanging
- 57**     Foundations: masonry, flues, etc.
- 7**     **Boiler accessories**
- 72**     Water gages, floaters, gage glasses, warning whistles
- 73**     Pressure gages, manometers, safety valves
- 79**     Other: air cocks and blowout valves, zincs, steam collectors
- .185**   **Steam transmission and distribution**     Piping
- 1**     **General; laws of flow, condensation, friction**
- 2**
- 3**     **Connections; mains, auxiliary piping**
- 4**     **Valvs**
  - Stop, safety, reducing     Pressure regulators
- 5**     **Drains and traps**     Receivers and distributing valvs
- 6**     **Covering**     **Insulators**
  - Nonconductors for high, low and medium temperatures
- 7**     **Joints and cements**     **Expansion joints**
- 8**     **Utilization of exhaust steam**
  - See also 697.5 Steam heating
- .19**    **Steam boiler and power plants**     Central stations
  - See also bilding, 697.5 steam heating
- .191**    **General**
- .192**    **Arrangement and housing of apparatus**
  - 5**     Provision for enlargement
- .193**    **Care and management of steam apparatus**
- .194**    **Boilers**
  - 1**     **Firing**
  - 2**     **Feeding**
    - Put here general discussion of feeding and feedwater appliances. For separate description of appliances see 621.197
  - 3**     Treatment of feed water: purification, softening
  - 4**     Scale prevention     Incrustation
  - 7**     **Inspection**     Hydraulic tests     Rating
- .195**    **Engins: oiling, packing, adjusting**
- .196**    **Duration**     **Wear**
  - 5**     Corrosion
- .197**    **Steam plant accessories**     Economic appurtenances
  - 2**     **Feedwater appliances**
    - Tanks, heaters, economizers, filters, purifiers, regulators
  - 3**     **Pumps**     **Injectors**     Return traps
  - 4**     **Separators**
  - 5**     **Superheaters**
  - 6**     **Condensers and cooling towers**
    - 62**    Surface condensers
    - 63**    Jet condensers
    - 64**    Cooling towers
    - 67**    Condenser accessories
  - 7**     **Instruments**
    - Indicators, tachometers, gages, dynamometers, thermometers, pyrometers, lubricators, etc.



## 621.2 Hydraulic engines or motors

Industrial use of water as moti<sup>v</sup> power, ncluding machines run by water under pressure produced by accumulators and also constructions and appliances for distributing and regulating supply of water to motors  
For hydraulic engineering (dam, breakwater, etc.) see 627; for pumps see 621.6; for reservoirs, aqueducts, etc. see 628.1; for theory of mechanics of liquids see 532

- .21 Water wheels
  - Theory, classification, parts (e.g. paddles, vanes, buckets) water gates, cr<sup>v</sup>verts
- .22 Overshot or bucket wheels      Brest wheels
- .221      Overshot wheels of low velocity
- .222      Overshot wheels of high velocity
- .223      Brest wheels      Fairbairn wheels
- .224      Sluice gate or Sagebien wheels
- .23 Undershot or impulse wheels and floating wheels
  - .231      Ordinary undershot wheels
  - .232      Wheels with curvd vanes or buckets      Pelton wheel
  - .233      Vertical impulse wheels
  - .234      Current suspension wheels
  - .235      Floating wheels
- .24 Turbines
  - See also 621.165 Steam turbines
  - .241      General: parts (e.g. distributors, buckets, guide van<sup>e</sup> regulators
  - .242      Reaction or pressure turbines
  - .243      Outward flow
    - Early forms: Barker's mill
  - .244      Inward flow
  - .245      Downward flow
  - .247      Impulse or Girard turbines
- .25 Water pressure engines      Accumulators
- .252      Hydraulic pumps
- .253      Piping for high pressure
- .254      Accumulators
- .26 Hydraulic machinery and appliances
  - For theory see 532.81
  - .262      Funicular engines      Hydraulic tackle
  - .263      Hoists      Elevators      Cranes
    - Class preferably in 621.86; i.e. purpose outweighs moti<sup>v</sup> power
  - .264      **Special handling and lifting machinery for steel works, etc.**
  - .266      Presses      Forging and stamping machines
  - .267      Accessories: injection pumps
  - .269      Mining, tunneling and other hydraulic appliances
    - Hydraulic giant, Brandt's hydraulic gun
- .27 Hydraulic rams
  - For theory see physics 532.83
  - .272      Lifting rams      Montgolfier ram, Bolle ram, etc.
  - .273      Pumping rams      Leblanc ram
    - See also 621.64 Pumps
  - .274      Compressing rams      Sommelier ram
- .29 Flood gates      Dams      Mill sluices      Hed and tail races
  - Adaptation to hydraulic motors. For methods and principles of construction see 627.8 Hydraulic engineering

621.3 Electric engineering

*all books on Elect. Eng.*

001 Statistics; 002 Quantities and cost; 003 Contracts and specifications;  
 004 Designs and drawings; 005 Executiv; 006 Working and maintenance  
 007 Laws and regulations; 008 Patents; 009 Reports  
 May also be subdivided for form with 0 like 620.1-9

**SUMMARY**

- 621.31-7 **Hevy current engineering**
  - .31 Generation of electricity
    - .311 General
    - .312 Central stations
    - .313 Dynamoelectric machinery
    - .314 Stationary induction apparatus
    - .315 Electrostatic apparatus
    - .316 Accessories and parts
    - .317 Control and central station wiring
    - .319 Transmission
    - .32 Electric lighting
    - .33 Electric traction
    - .35 Voltaic cells and batteries
    - .36
    - .37 Electric mesurements and testing
  - .38 **Weak current engineering**
    - .382 Telegrafy
    - .384 Wireless communication
    - .385 Telefony
    - .39 Other applications of electricity

**621.31-37 Hevy current engineering**

- .31 Generation of electricity      Dynamoelectric machinery
- Transformers      Transmission

- .311 General

- .312 Central stations: metropolitan, rural

Divided by 001-009 like 621.3 with the following additions to 006:

006 Working and maintenance

- 4 Operation and running
- 5 Regulation and control
- 8 Testing
- 9 Repairs and renewal

Administrativ point of view; a specific repair belongs with the part repaird

- .31213 **General central stations**

- 132 Combined power, traction, light, etc. stations
- 132 Steam driven
- 133 Gas "
- 134 Hydraulic
- 135 Composit

- 2 **Stations for lighting only**

Divided by source of power like 621.31213

- 3 **Stations for traction only**

Divided like 621.31213

- 5 **Storage battery pressure regulating equipment**

- 6 **Substations**

- 63 Transformer substations
- 64 Converter "
- 65 Accumulator "

## Dynamoelectric machinery

- 1 **General; construction, installation**
- 2 **Direct or continuous current machinery**
- 21 Theory
- 22 General types
- 23 Continuous-current generators
  - 2 Series wound    3 Shunt wound    4 Compound wound
- 24 Continuous current motors
  - Subdivided like 621.31323 above
- 245 Constant speed motors
- 246 Multispeed motors
- 247 Adjustable speed motors
- 248 Varying " " (railway motors)
- 25 Continuous-current converters
- 26 Dynamotors and motordynamos
- 27 Compensators or balancers
- 28 Continuous-current boosters
- 29 Other
- 291 Acyclic or homopolar machines
- 3 **Alternating-current machinery**
- 32 General types of alternating current machinery
- 321 Single phase machinery
  - 322 2 " "
  - 323 3 " "
- 325 Other polyphase machinery
- 4 **Synchronous machinery**
- 41 Theory
- 42 General types
- 43 Alternating-current generators
- 44 Synchronous motors
- 5 **Alternating-current converters**
- 51 Theory
- 52 General types    Description
- 53 Synchronous converters
- 54 Phase converters
- 55 Frequency converters
- 56 Double-current generators
- 57 Motor converters
- 6 **Asynchronous machines**
- 61 Theory
- 62
- 63 Induction generators
- 64 " motors
- 65 Series alternating-current motors
- 66 Repulsion motors
- 67 Frequency converters
- 68 Phase converters
- 7 **Rectifying apparatus**
- 72 Mechanical rectifiers
- 73 Arc "
- 74 Electrolytic "

621.314	Stationary induction apparatus
1	Theory
2	General types and description
3	Transformers
31	Constant-current transformers
32	Constant-potential transformers
33	Phase-changing transformers
34	Meter transformers
38	Auto transformers
4	Potential regulators
5	Compensator potential regulators
51	Induction           "           "
52	Magneto           "           "
53	Reactors or choke coils
6	Induction coils
7	Electrostatic apparatus: condensers
.315	Details of electric machinery   Parts
.316	Armatures, field cores, etc.
.317	Central station wiring   Control devices and switchboards
	For meters and mesuring instruments see 621.37
1	General
2	Panels
22	Generator panels
23	Motor           "
24	Feeder         "
25	Transformer   "
26	Converter     "
27	Lighting      "
28	Accumulator   "
3	Switches
31	General
32	Knife switches
33	Dial           "
34	Plug           "
35	Oil            "
36	Circuit breakers
4	Rheostats and control devices
5	Signal devices
6	
7	Barriers and compartments
8	Station protectiv devices (fuzes, lightning arresters etc.)
.318	Manufacturing processes
	Processes peculiar to electric machinery and apparatus: e.g. insulating varnishing, baking, armature stamps and dies

## Transmission of electric energy

Limited to transmission of current from control to substations (stepdown transformers) and to questions common to all lines. For transmission systems for a special application see subject; e.g. traction lines 621.332

- 1 **General**
- 12 **Systems**
- 122 Direct or continuous current systems
  - Including 2 wire systems
  - 123 3 wire (or Edison) and other
  - 129 Other direct current systems
- 13 Alternating current systems
- 131 Single phase systems
- 132 2 phase (or quarter phase) systems
  - 3 3 wire system
  - 4 4 " "
  - 133 3 phase systems
    - 2 Delta or mesh connections
    - 3 Star or Y connections
  - 139 Other polyphase systems
  - 15 Composit systems
    - Direct and alternating current combined
- 2 **Lines and conductors**
  - For local wiring see specific application; e.g. electric light wiring 621.328
  - 21 **General**
    - Interaction of parallel lines, heat losses. For traction lines see 621.332; for interior wiring for electric light see 621.328, for telegraf see 621.382, for telephones see 681.386-7
    - 22 Overhed or aerial lines
    - 222 Systems
    - 223 Poles: foundations, guys, etc.
    - 224 Cross arms Pins
    - 225 Towers
    - 23 Underground lines
    - 232 Systems
    - 233 Conditis
    - 234 Manholes
    - 3 Cables and conductors Insulating materials
    - 32 Uninsulated conductors Bare wire
    - 33 Insulated " Wire and cable
    - 34 Cables
    - 37 Insulating materials
      - Leakage Influence of chemic composition
    - 4 Insulators
  - 8 **Protectiv devices**
  - 82 Line lightning arresters
    - For protection of central stations see 621.3178

Class here works limited to electric lighting, but more general than any of the subheads below. This number is for matter differentiating lighting from other branches of electric engineering, but not for subjects which lighting has in common with other branches. For generation and control of electricity (including central stations) see 621.31, for transmission and wiring see 621.319, for measuring see 621.37

For theory of electric light see 537.83 Electric lighting

.321

## General

.325

## Arc lighting

Including systems and lamps

1

General: efficiency, cost, etc.

2

Constant-current or series systems

3

Constant potential or parallel systems

4-5

Arc lighting according to

4

Type of arc

If emphasis is on form of current, class under 621.3255 If there is conflict, prefer 621.3254

42

Open arc

421

" " direct current

422

" " alternating current

423

Inclosed arc

43

431

" " direct current

432

" " alternating current

433

5

Form of current

If emphasis is on type of arc class in 621.3254

52

Direct current

521

" " open arc

522

" " inclosed arc

523

53

Alternating current

531

" " open arc

532

" " inclosed arc

533

6

Composit electrode arcs

Flaming arcs. Carbid, Bremer magnetite, titanium oxid arcs

7

Details Accessories

Arc light carbons

8

Applications

For welding see physics 537.85, and metallurgy 669

" therapeutic applications see 615.84 and 621.3915

82

Searchlights

.326

## Incandescent lighting

Including lamps and systems

1

General: efficiency, cost, etc.

2

Systems (Edison 3 wire system)

3

Carbon filament lamps

31

Metalized filaments

32

Other carbon filaments

4

Metal filament lamps

41

Platinum filaments

42

Tantalum "

43

Tungsten "

44

Osmium "

45

Other metal filaments

5

Glowers of other materials

53

Nernst lamps

.327

## Incandescent vapor lighting and lamps Other electric lighting

3

Vacuum or incandescent vapor lamps

4

Mercury vapor lamps

For mercury rectifiers see 621.3137

5

Carbon vapor lamps Moore lamp

7

Vacuum lamps for special radiations: Crookes tubes, etc.

621.328

Apparatus at servis end of line

- 1 Underwriters requirements
  - National electric code
- 2 House wiring
- 3 Panels
- 4 Fuzes
- 5 Insulators, etc.
- 6 Meters
  - See also 621.37 Electric mesurements and testing
- 7 Switches

Other apparatus

.33

Electric traction

*Electric roads trolley line*

See 625 for construction of route; 656 for business management, maintenance; 654 for communication and signals; 699 for car bilding; 725.3 for architecture of stations, terminals, carsheds, shops, round houses, etc This number is concernd properly only with the apparatus and appliances for transmission and use of the current after it enters the line.

.33I

General

- 2 Systems
  - 3 Systems according to servis
    - 3.2 Trunk lines
    - 3.3 Interurban
    - 3.4 Local
      - 3.4.2 Surface
      - 3.4.3 Elevated
      - 3.4.4 Subway
  - 4 Systems according to current
    - 4.2 Direct current
    - 4.3 Alternating current
      - 4.3.1 Single-phase
      - 4.3.2 2 phase
      - 4.3.3 3 phase
      - 4.3.9 Others
  - 5 Systems according to delivery of power
    - 5.2 Trolley systems
      - 5.3 Overhed trolley
      - 5.4 Underground trolley
    - 5.6 Third rail systems
      - 5.6.2 Unprotected third rail
      - 5.6.4 Protected " "

.332

The line (including track)

- 1 General
  - Interaction of parallel lines, heat losses, etc. are better clast in 621.319.1
- 1.7 Feeders and return systems
- 2 Overhed wire Trolley lines
  - 2.3 Catenary suspension
  - 2.5 Trackless trolley
- 3 Third rail
- 5 Underground conductor or contact
- 6
- 7 Accessories
- 9 Other types of line

.333

Track

- 1 General
  - 1.6 Deteriorating influences
    - 1.6.7 Electrolysis Leakage
  - 2 Rails
  - 4 Bonding

- 621.334 Rolling stock  
 For nonelectric rolling stock see 656 for administration, 699 for construction
- 2 Locomotivs  
 3 Motor cars  
 4 Accessories and parts Control systems  
 Motor, controller, current collecting devices, etc. Multiple unit control  
 5 Locomotiv and car wiring  
 7 Running gear and other nonelectric details
- .35 Chemic electricity Voltaic cells and generators  
 Primary and secondary
- .351 General  
 E.m.f, counter e.m.f, polarization, weight, capacity; efficiency, life, crumbling, deterioration and detrimental influences; residues
- .352 Parts and accessories of cells and accumulators
- 1 Containers: jars, troughs, vats, etc.  
 2 Electrodes and their accessories: positiv and negativ plates or elements  
 Grids, supporting frames, insulating rods, etc.  
 3 Diaframs and partitions  
 4 Electrolytes Depolarizers Packing  
 5 Circulators Conditis and piping  
 6 Connections Terminals Binding posts  
 7 Regulating apparatus  
 8  
 9 Other apparatus
- .353 Primary cells  
 See also 537.5 Voltaic electricity; 541.37 Electrochemistry
- 1 General  
 3 Single fluid  
 4 Double " Hevy current cells  
 5 Open circuit or nondepolarized  
 6 Closed circuit or depolarized  
 7 Accessories and parts  
 8 Classification according to use or operating methods
- .354 Accumulators or storage batteries  
 Secondary cells and batteries
- 1 General  
 18 Care and handling of accumulators  
 7 Accessories and parts
- .355 Led accumulators
- 1 General  
 18 Care and handling  
 2 Naturally formd: Planté type  
 3 Artificially formd: Faure type  
 4 Combined Planté-Faure types  
 5 Other led accumulators  
 52 Complex oxid types  
 55 Led element accumulators  
 56 Copper led "  
 57 Zinc " "  
 58 Cadmium " "
- .356 Alkalin accumulators
- .357 Other types of accumulators  
 Thallium, gas, etc.
- .358 Other classifications of accumulators  
 According to use or operation
- .359 Other topics pertaining to chemic generation of electricity
- .36 Vacant for future use; perhaps for direct transformation of heat or fuel energy



- 621.37 Electric measurements, meters and testing
- .371 General  
 Tariffs may be class here, tho better put in 654
- .372 Standards Calibration of instruments
- .373 Meters General types  
 Recording meters. See also special meters, 621.384  
 Prepayment meters. See also special meters, e.g. 621.3745 Watt hour
- .374 Special meters and measurements
- 2 Resistance meters: inductance, capacity  
 Wheatstone bridges, ohmmeters, resistance boxes
- 3 Potential meters: voltage  
 Voltmeters, electrometers, standard cells
- 4 Intensity meters: current  
 Galvanometers, ammeters, coulometers, Ampère-hour meters
- 5 Quantity or work meters Watt-hour meters
- 6 Power meters Watt meters
- 7 Frequency meters Oscillograms
- 9 Other meters and measurements
- 91 Phase meters Power-factor meters Synchronizers
- .379 Other electric measuring instruments  
 For other than electric measurements; e.g. electric thermometers
- Weak current engineering
- .38 Electric communication: telegraphy, telephony, wireless *books on wireless telephony*  
 Libraries have too much material class in 654 to make it practicable to abolish that number for construction and instruments; but for electric engineers and new libraries who prefer it, the detail technical classification is develop here.  
 For overhed or underground lines see 621.3192
- .381 General
- .382 Telegraphy Systems  
 When systems and instruments conflict, classify according to systems.  
 For business administration, see 654; for wireless see 621.384
- 15 Codes
- 152 Morse
- 153 Continental
- 154 Phillips (press code)
- 2 A B C, dial, needle telegraf, etc.
- 21 Early experimental forms
- 22 A B C
- 23 Dial
- 24 Needle
- 25 Pointer
- 29 Other
- 3 Hand operated code telegraphy
- 31 Simplex
- 311 Open circuit
- 312 Closed circuit
- 32 Duplex
- 321 Differential duplex systems
- 322 Stearns duplex
- 323 Polar duplex
- 325 Bridge duplex systems

621.382	34	Quadruplex
	35	Multiplex
	36	Synchronous multiplex: Delany
	37	Harmonic " Gray
	4	Automatic code telegrafy High speed systems
	41	Electrochemic automatic: Bain, Morse
	44	Ink recording or embossing
	45	Wheatstone
	46	Pollak-Virag
	47	Telepost (Delany)
	5	Printing telegraf
	51	Tape printing: stock tickers
	53	Other tape printing: Hughes
	55	Page printing: Buckingham, Murray, Baudot
	57	Multiple page printing: Rowland
	6	Writing telegrafy
		Transmitting and recording characters while being written; Gray's telautograf
	7	Facsimile telegrafy
	8	Submarine cable telegrafy
	9	Other wire systems
	94	Induction telegrafy; from moving trains, etc.
	95	Combined telegrafy and telefony Fantom circuits
.383		Telegraf instruments
	1	Transmitting: keys, senders, etc.
	2	Intermediate and accessory: relays, repeaters, switches
	21	Relays
	22	Differential relays
	23	Polarized "
	24	Repeaters, for simplex; Milliken, Ghegan, Toye, etc.
	25	" " duplex or quadruplex
	26	* Half' repeaters
	27	Switches and distributing apparatus
	28	Protectiv apparatus
	29	Miscellaneous telegraf accessories
	3	Receiving instruments
		Sounders, recorders, etc. Subdivided, if wisht, like 621.3824-8
.384		Wireless electric communication: telegrafy, telefony
	1	General
	2	Wireless telegrafy Systems
	21	Spark telegrafy; by free oscillations
	25	Continuous-train telegrafy; by forced oscillations
	3	Instruments
	31	Sending apparatus
	35	Antennae, aeriels, and their substitutes
	36	Receiving instruments and apparatus
	4	Applications, adaptations, specific installations
	5	Wireless telefony systems
	6	Apparatus
	61	Sending apparatus
	65	Aeriels etc.
	66	Receiving apparatus
	7	Applications, adaptations, specific installations
	8	Vacant for possible development of visual transmission by wireless

## Telephony Systems

See also 621.3845 Wireless telephony

- 1 **General**
- 2 **Party line**
  - When 2 and 3 or 2 and 4 conflict, 3 or 4 prevails
- 22 Series
- 23 Bridging
- 24 Selectiv
- 3 **Intercommunicating systems**
  - Without central switchboard
- 32 Common return systems; selectiv at each station
- 34 Radial common return systems; selectiv at one station only
- 36 2-wire systems; separate returns
- 4 **Central switchboard systems**
  - Manual; for automatic see 621.3857
- 42 Local battery or magneto systems
- 46 Common battery or central energy systems
- 5 Multiple switchboard systems
- 6 Trunking Transfer systems
- 61 Trunking
- 63 Transfer system
- 7 **Semiautomatic and automatic systems**
- 72 Semiautomatic
- 75 Automatic
- 76 Strowger system (Automatic Electric Co)
- 8 **Private exchanges**
- 386 **Telephone instruments**
  - Terminal; subscriber's instruments
- 2 Transmitters
- 3 Receivers
- 4 Induction coils
- 5 Condensers
- 6 Hook or other switches
- 7 Call receiving apparatus
- 8 Call sending "
- 9 Miscellaneous accessories
- 92 Coin collecting devices
- 94 Protectiv devices
- 96 Current supply (local batteries)
- .387 **Central switchboards and other station equipment**
- 1 **General**
- 2 **Switchboards, manual**
- 22 Local battery or magneto
- 26 Common battery
- 3 Multiple switchboards
- 35 Divided multiple
- 4 Trunks Transfer boards
- 41 Trunks and trunking
- 43 A boards
- 45 B boards
- 47 Multiple plug transfer
- 5 **Switchboard parts and accessories**

- 621.387 6 Power plant equipment and accessories
  - 62 Accumulators
  - 63 Charging generators
  - 64 Ringing " "
  - 7 Automatic and semiautomatic switchboards
    - Including accessories. Subdivided like 621.3857
  - 8 Telephone transmission
    - For transmission common to other branches of electricity see 621.319
    - Put here only that peculiar to telephony
  - 81
  - 82 Long distance
  - 83 Transposition
  - 84 Telephone cable construction
  - 85 Loading
  - 86 Pupin coils
  - 9 Other central station accessories
    - 92 Distributing frames and racks; main
    - 93 " " " " intermediate or secondary
    - 94 Protectiv devices
      - See also 621.3178 and 621.31982
    - 96 Meters and counters
      - See also 621.3286 Electric light meters
  - .388 Vacant for visual transmission by wire
  - .389 Other electric communication
  - .39 Other application of electricity
    - Subdivide like 600; e.g. electricity applied to mining 621.3922, applied to medicin 621.3915. This place is provided for specialists who prefer to mass all their material under 621.3. Libraries should class rather by purpose of the application; e.g. books on electric heating will be more useful in a general library under 697.7 with the question of heating than in 621.3997 with a general assortment of unrelated applications. References here show a library's resources on special applications
  - .4 Air and gas engins and other motors
    - .41 Hot air engines
    - .42 Comprest or rarefied air or gas engins
    - .43 Internal combustion engines
      - .431 General theory of internal combustion engines
      - .432 Cycles and systems of operation
        - 1 Four cycle systems Otto cycle
        - 2 Two cycle systems
        - 3 Other and modified systems
      - .433 Gas turbins
      - .434 Internal combustion engines clast by fuels
        - 1 Engins for gaseous fuels
          - 11 Engins for natural gas
          - 12 " " illuminating gas
          - 13 " " blast furnace gas
          - 14 " " producer gas
            - For gas producers see 665.8
        - 15 Engins for acetylene gas
        - 2 Engins for liquid fuels
          - 21 Engins for gasolene
            - 22 " " kerosene
            - 23 " " other petroleum oils
            - 24 " " alcohol
          - 3 Engins for solid fuels

- 621.436 Special engines or motors  
 Those not limited to a single system or fuel; e.g. description or discussion  
 of Diesel motor. Arrange alphabetically by name of machine
- .437 Parts and accessories of internal combustion engines
- .438 Special applications
- 3 Selfpropelled machinery  
 Engines for farm machinery, fire engines, roadrollers, etc. See also  
 special machines
- 1 Selfpropelled vehicles  
 Class here only adaptation and application of internal combustion  
 engines to motor vehicles. See also 629 for motor vehicles
- 5 Motors for small boats
- 6 " " large vessels
- 7 Airship motors  
 For airships see 629
- .44 Binary vapor engines
- .45 Windmills
- .46 Animal motors Treadmills
- .47 Solar engines
- .49 Power plants and central stations
- .5 Air compression or rarefaction Pneumatic machinery  
 Refrigeration Ice machines
- .51 Air compressors
- .515 Dry air compressors
- .517 Wet " "
- .52
- .53 Comprest air transmission and distribution
- .532 Details of transmission Piping, mains, gages, etc. Designs of transmis-  
 sion
- .54 Applications for compressed air  
 For pneumatic hoists, etc. see 621.86
- .541 Comprest air motors
- .542 Pneumatic tools: drills, hammers, etc.  
 See also 821.9 Machine tools
- .543
- .544 Special applications in railway service
- .545 Comprest air locomotives
- .546 Pumping by compressed air
- .549 Other applications  
 Pneumatic cleaning, sandblasts, tubes
- .55 Rarefied air and vacuum appliances  
 Vacuum cleaners: general discussion and description. See also domestic  
 economy 648.52 Methods of sweeping and dusting
- .56 Refrigeration  
 For cold storage see 664.8
- .564 Refrigerating fluids
- .565 Refrigerating systems and plants
- 1 Brine system
- 2 Direct expansion system
- .566 Design Calculation of piping, refrigerating surface,  
 etc.

- 621.57 Refrigerating machines
  - .572 Ammonia compression machines
  - .573 Ammonia absorption “
  - .574 Carbonic acid machines
  - .575 Air machines, vacuum machines. etc.
  - .579 Other
  - .58 Icemaking
    - .581 Can system
    - .582 Plate system
- .6 **Blowing and pumping engines**
  - .61 Piston blowers. Blast furnace blowing engines, etc.
  - .62 Rotary blowers
  - .63 Centrifugal blowers
    - Including fans: exhaust and plenum
  - .64 Power pumps and pumping engines
    - Regardless of moti<sup>v</sup> power
  - .641 General theory Design and construction
  - .642 Tests of pumps and pumping engines
  - .65 Direct acting pumps
    - .652 Piston pumps
    - .654 Plunger “
  - .66 Rotary pumps
  - .67 Centrifugal pumps
  - .68 Fire engines
  - .69 Other blowing and pumping devices
    - Steam jets, ejectors, etc.

## 621.7 Mills Factories Engineering works

Engineering questions affecting establishment and conduct of manufacturing plants. Arrangement of shops and departments (including storehouses, offices, etc.) with reference to sequence of processes, economy of power and handling; also equipment and internal arrangement of each shop. See also

651 Offis methods and equipment

657 Accounting, costkeeping, estimates

658 Business methods

659 Advertizing, etc.

670 Manufactures: articles, and methods and machines for making them

725.4 Architecture of factories

In 621.7 is considered the disposition of the material for which the architect constructs the shell, the assembling into a unit of elements essential to a great factory. A works manager may wish to keep *all* his notes on his own plant here, including machines and processes for his special product, but a general library should class manufactured articles, with the special means and methods of producing them, under the number for the article; e.g. a library would class material on spindles and looms in 677, but the manager of a woolen mill might prefer to class them in 621.7983 as an integral part of his plant, tho classification under the regular number will usually prove more satisfactory in all cases

### .701 Location

With reference to supply of raw material, market for finisht product, shipping facilities, relativ cost of freight on material or product; e.g. the much greater cost of carrying a bulky car than an equal weight of compact raw material as a factor in locating an automobile factory

### .704 Organization and administration

Managers and engineers, professional staff; artizans and laborers regarded as machine accessories; hours and shifts considered solely with reference to effect on output. For wages and other economic aspects see 331 Capital, labor and wages; for factory legislation (protection and welfare of employees) see 338.9. For organization of clerical force see 651

### .705 Mechanics and laborers

#### .71 Drafting room

.711 General

.712 Arrangement

.713 Equipment

.714 Materials and supplies

.715 Methods and processes

.719 Other

#### .72 Woodworking shop Pattern shop

May be subdivided like 621.71

#### .73 Forge shop

May be subdivided like 621.71

#### .74 Foundry

May be subdivided like 621.71

#### .75 Machine shop

May be subdivided like 621.71

#### .76 Blast furnace

May be subdivided like 621.71

#### .77 Rolling and drawing mills

May be subdivided like 621.71

.78

- 621.79 Other shops and departments
  - .792 Boiler and sheet metal shops
    - Stamping and punching May be subdivided like 621.71
  - .794 Special process shops
    - Galvanizing, plating, etc. May be subdivided like 621.71
  - .795 Finishing shop
    - Painting, glazing, grinding, buffing, testing. May be subdivided like 621.71
  - .796 Storehouses
    - 3 Materials and supplies
    - 4 Explosives
    - 6 Products Shipping department
  - .798 Department turning out main product
    - Processes and machines Varying for different kinds of factories and provided only for factory use, see note to 621.7. Libraries should leave vacant May be subdivided like 621.71
  - .799 Other minor shops and departments
- .8 Principles of mechanism Millwork and mechanism of transmission Hoisting and conveying machinery
  - .81 General Principles of mechanism Machine design
  - .82 Journals, shafting, etc.
    - .821 Journals
    - .822 Bearings: ball, roller, etc. Hangers Bearing metals
    - .823 Shafting
      - .8235 Flexible shafting
    - .825 Couplings and clutches Universal joints
      - Friction clutches
    - .826 Shaft brakes
    - .83 Tootht gears and cams
      - .831 General: theory, forms of teeth, tooth curvs
      - .832 Efficiency of gears Tests Friction of gears
      - .833 Design of gears
        - 1 Spur gears
        - 2 Bevel and skew bevel gears
        - 3 Worm and spiral gears
          - Screws for transmitting motion, endless screws
      - .834 Construction: gear cutting and casting
      - .835 Chain gearing
      - .837 Ratchet gearing: pawls, dogs
      - .838 Cams
      - .84 Valv motions and gears
        - General, trade catalogs; for special valvs see subject
      - .846 Valvs and cocks
    - .85 Machinery and mill gearing
      - Transmission by flexible connections
      - .852 Belt connection
      - .853 Hemp rope transmission
      - .854 Wire rope "
      - .856 Pulleys Sheaves
      - .858 Friction gearing



621.86

## Hoisting and conveying machinery

For dredges see hydraulic engineering, 627.7 Dredging, dredging machinery See also 621.26 Hydraulic machinery: 621.18378 Fuel and ash conveyers

.861

Hoists: blocks and tackle

.863

Mechanical tackle Chain blocks

.864

Winches Capstans Windlasses

.865

Power shovels

.867

Conveyers Telferage

4

Belt or bucket conveyers

5

Belt: moving sidewalks

6

Bucket: escalators, moving stairs

9

Other conveyers: cash carriers, etc.

.868

Telfers

4

Selfpropelling

.869

Other: jacks, etc.

.87

Cranes and elevators

.871

Derricks

.872

Revolving cranes.

.873

621.873-5 may be subdivided like 621.8771-5 by kind of power, if wisht; e.g. 3 Steam 4 Hydraulic 5 Electric

.874

Traveling cranes

.875

Locomotiv cranes

.876

.877

Elevators

1

Handpower

2

Belt driven

3

Steam, gasoline

4

Hydraulic

5

Electric

6

7

For special purposes

71

Passenger elevators

72

Freight "

For mines see 622.17-.68

73

74

Dum waiters Book lifts

Lifts for small objects

7

Apparatus

71

Car and guides

82

Power transmitting devices

83

Counterbalancing weights and guides

84

Control devices

85

Safety "

86

Accessories

- 621.88 Fastenings
- .882 Screws and bolts Systems of screw threads  
 For screws for transmitting motion see 621.8333
- .883 Keys and cotters
- .884 Rivets Design of riveted joints
- .89 Friction Lubrication Lubricants
- .9 **Machine tools**  
 Manipulation Discussion and catalogs of different kinds and makes of metalworking tools. For manufacture of various tools, see 672. For wood-working tools, see 674 Wood manufactures; also 684 Cabinet making, 694 Carpentry
- .91 Planing and milling machines
- .912 Metal planers, shapers, and slotters
- .92 Grinding and filing Abrasives
- .922 Cylinder and surface grinding machines  
 Lapping machines
- .923 Emery wheels
- .924 Filing machines
- .93 Cutting and sawing
- .931
- .932 Metal sawing and cutting machinery
- .94 Turning
- .941
- .942 Metal turning lathes
- .943
- .944 Pipethreading machines
- .945 Boring mills
- .95 Perforating machinery
- .951
- .952 Drilling machinery Drills
- .953
- .954 Reamers
- .955 Tapping machines
- .96 Punching and shearing machinery
- .97 Hammers Riveting tools
- .98 Bending, straightening, and shaping
- .981
- .982 Bending machinery
- .983 Straightening machinery
- .984 Flanging and die press machinery
- .99

622 Mining engineering. See also 338.2 Mining products; 332.41 Coin-

age metals

May be subdivided like 620 and 620.0; e. g. Societies, 622.06; Reports, 622.009

.1 **Exploration and Prospecting.**

.11 Theory. Applied Geology, etc.

.12 Prospecting. Practical Methods.

Including Divining Rods.

.13 Mineral Surveys.

.14 Mine Surveying.

.15 Magnetic Surveys.

.16 Theory of Faults. See 551.87 and 553.19

.17

.18

.19 Mining Prospectuses. See 553.

.2 **Practical Mining.**

.21 Excavation.

.22 Quarrying.

.23 Drilling and Blasting.

.24 Deep Boring.

.25 Shaft Sinking.

.26 Tunneling and Drifting.

.27 Stopping.

.28 Timbering. Masonry lining. See also 622.56.

.3 **Working of Mines. Exploitation.**

.31 Open Workings.

.32 Hydraulic Mining and Sluicing.

.33 Coal Mining. See 553.2.

.34 Metal Mining. See 553.3 and .4.

.35 Working Thick Deposits.

.36 Salt Mining. See 553.63.

<b>622.4</b>	<b>Ventilation and lighting of mines</b>	
.41	Theory	Gases met with, etc.
.42	Natural ventilation	
.43	Furnaces	Steam jets, etc.
.44	Fans	See 621.62
.45	Airways	Stoppings Regulators
.46	Measurement of ventilation.	
.47	Lighting	Safetys lamps, etc.
<b>.5</b>	<b>Drainage</b>	
.51	Theory of infiltration of water	
.52	Natural drainage	
.53	Cornish pumps	See 621.64
.54	Steam pumps	See 621.64
.55	Hoisting of water	
.56	Dams and watertight linings	See also 622.28, Timbering
.57	Acid waters	
<b>.6</b>	<b>Extraction Hoisting and transportation</b>	
.61	Handling mineral in working place	
.62	Underground roads	
.63	Mine cars	Trams, etc.
.64	Gravity roads and planes	
.65	Tramming and animal haulage	See 625.7
.66	Mechanical haulage	
.67	Hoisting engines	Drums Ropes Whims
.68	Cages	Skips Buckets
.69	Surface transportation	
		Including mineral roads, wire ropeways, transshipment, loading and unloading, etc.
<b>.7</b>	<b>Mechanical preparation Ore dressing</b>	
.71	Theory	Preliminary operations
.72	Hand dressing	
.73	Crushing	Stamping engine
.74	Screening	
.75	Jigging	Oreconcentrators
.76	Slime treatment	
.77	Magnetic separation	
.78	Coal washing	
.79	Dressing works	
<b>.8</b>	<b>Dangers and accidents</b>	See also 613.6 Hygiene; 331.82 Laboring classes
.81	Explosions of fire-damp	
.82	Mine fires	
.83	Crushing and fall of ground	
.84	Flooding of mines	
.85	Accidents to miners	
.86	Rescue and relief	
.87		
.88		
.89		

# 623 Military and naval engineering

For military and naval science, maneuvers, strategy and tactics see 355-359

## SUMMARY

- 623.1 Fortifications: field and permanent
- .2 Siege operations: mines, etc.
- .3 Defensiv operations
- .4 Ordnance and projectiles
- .5 Gunnery
- .6 Military roads and bridges
- .7 Military signals: telegraf, ballooning, etc.
- .8 Naval architecture
- .9 Armor Torpedoes, etc.

- .1 **Fortifications: field and permanent**
  - .11 Principles of fortification
  - .111 Profiles
  - .112 Plans
  - .113
  - .114 Defilading
  - .115
  - .116 Details: bastions, curtains, glacis, etc.
  - .117 Accessory defenses
    - Flanking defenses; outworks, palisades; moats, obstacles, etc.
  - .12 Construction of permanent fortifications
    - .122 Earthwork
    - .123 Masonry: concrete
    - .124 Armor
  - .13 Systems of forts
    - .131 Central fort
    - .132 Citadel
    - .133 Fortified positions
    - .134 Barrier forts
  - .15 Temporary fortifications      Field works
  - .19 Special forts
    - Divided like 930-999; e.g. history of the fortress of Gibraltar 623.19468
- .2 **Siege operations      Mines**
  - Class here only engineering operations. For conduct of sieges, see 355.44
  - .21 Siege works
    - Investment, establishing camps
  - .22 Circumvallation and countervallation
  - .23 Establishing parallels and advancing batteries
  - .24 Zigzags      Saps
    - Trenching, blindage, gabionades
  - .25 Breaching batteries      Breaches
    - For assaults see 355.44
  - .26 Land mines and torpedoes
    - See also 623.9 Submarine torpedoes
  - .27 Other means of demolition
    - Firing and exploding devices

- 623.3**    **Defensiv operations**  
             For maneuvers see 355.44
- .34    **Defense of trenches**
- .35          "       breaches
- .36    **Countermines**
- .4    **Firearms ordnance and projectiles**        **Arsenals**  
             Including ammunition in general and fireworks. For manufacture of explosives see 662. For general history of war customs and wepons, and of ancient engines of war see 399. Class here wepons for gunpowder and similar explosivs
- .41    **Artillery material**  
             Class according to use
- .412    **Field artillery material**
- .413    **Mountain**       "       "
- .414    **Landing**       "       "
- .415    **Siege**       "       "
- .416    **Fortress**       "       "
- Including large guns (fortress, coast and naval) considered together
- .417    **Coast artillery material**
- .418    **Naval**       "       "
- .42    **Guns**
- .421    **Guns according to form and construction**  
             See also 623.5 Gunnery; 623.47 Gunmaking
- 1    **Early forms: bombards, culverins, etc.**  
             For blunderbuses and other early forms of small arms see 623.441
- 2    **Guns proper or long cannon**
- 3    **Short cannon or howitzers (shell guns)**
- 4    **Mortars**
- 5    **Guns made in a single piece**
- 6    **Bilt up guns**
- 61    **Hoopt guns**
- 62    **Jacketed guns**
- 63    **Hoopt and jacketed guns**
- 64    **Wirewound guns**
- .422    **Guns according to mode of loading and operating**
- 1    **Muzzleloading guns**
- 2    **Breechloading**       "
- 3    **Rapidfire guns**
- 4    **Machine**       "
- 42    **Multiple tube guns**  
             Gatling guns, Hotchkiss revolving cannon
- 43    **Single tube guns**
- 5    **Automatic and semiautomatic guns**  
             Hotchkiss, Maxim, Colt
- .423    **Form and interior arrangement of guns**
- 1    **General plan**
- 2    **Outside form**
- 3    **Hooping**
- 4    **Jacketing**
- 5    **Bore**
- 6    **Rifing**
- 7    **Chamber**

- 623.424 Breech and firing mechanisms
- 1 Breech closing apparatus
  - 11 Block
  - 12 Wedge
  - 13 Screw
  - 2 Firing apparatus Vent Vent bushing Firing pin
  - 3 Safety apparatus: gas checks, etc.
- .425 Sighting attachments
- For detach apparatus, see 623.462
  - 1 Backsight, sliding notch, eyehole, etc.
  - 2 Sight Foresight
- .43 Mounts and carriages
- Including their parts and accessories
- .431 Field and mountain mounts and carriages
- 1 Field mounts
  - 2 Mountain mounts
  - 3 Machine gun mounts
  - 4 Caissons and limbers
  - 5 Ammunition chests
  - 6 Battery carriages (i. e. tenders)
- .432 Siege mounts and carriages
- 1 Siege gun mounts
  - 2 Howitzer mounts
  - 3 Mortar mounts
  - 4 Siege carriages (i. e. tenders)
- .433 Fortress, coast and naval mounts
- For accessories see 623.435
  - 1 Casemate mounts
    - Pedestal and pivot mounts
  - 2 Barbet mounts
  - 3 Disappearing mounts
  - 4 Turret mounts
- .434 Naval mounts
- For discussion limited to naval use
- .435 Mechanism of mounts
- Platforms, circular pintle block and pivots
  - 1 Checks and transoms
  - 2 Chassis and crosshead slides
  - 3 Mechanism for maneuvering and going into battery: wheels trucks, rollers
  - 4 Sighting apparatus
  - 5 Recoilchecking mechanism Breeching Vent plug
  - 6 Recoil mechanism Brakes
    - 61 Automatic friction recoil checks
    - 62 Screw brakes
    - 63 Hydraulic brakes
    - 64 Pneumatic "
    - 65 Trail spades
  - 7 Reactionary mechanism
    - Devices for restoring guns to firing position after recoil
  - 71 Spring recuperators
  - 72 Pneumatic recuperators

- 623.436 Maneuvering appliances
  - 1 Levers, handspikes, roller handspikes
  - 2 Breaching tackle
  - 3 Shot barrows, shell barrows
  - 4 Projectil hoists
    - See also 621.86 Hoisting and conveying machinery
- .44 Small arms
  - Mechanism and military efficiency
  - For small arms practis see 355.5
  - " manufacture of small arms see 683
  - " wepons prior to firearms see 399
- .44I Primitiv forms of firearms
  - Blunderbus, harquebus, etc.
- .442 Rifles, muskets, carbines, musketoons
  - Including also bayonet as part of the complete wepon
  - 1 Single shot, muzzleloading
  - 2 " " breechloading
  - 3 Repeating rifles
    - 3I With magazine
    - 32 " loader
  - 4 Automatic guns
- 443 Pistols and revolvers
  - 1 Single shot pistols
  - 3 Automatic pistols
  - 4 Revolvers
- .444 Side arms Cutting arms
  - For halberds, axes, dirks, poniards, and other antiquated forms see 399
  - 2 Swords
  - 3 Bayonets: saber, bayonets, sword bayonets
  - 4 Lances
- .45 Ammunition and fireworks
  - Kinds and relativ efficiency for military purposes. For details of manu-  
facture of powder and explosivs see 662
- .45I Artillery projectils
  - Including exploder as part of projectil
  - 1 Spheric projectils
    - 1I Solid shot
    - 12 Bombs
    - 13 Shells: early shrapnel
    - 14 Grenades
  - 2 Elongated projectils
    - 22 Case shot: canister and grape
    - 25 Elongated bullets
    - 3 Shells
      - 4 Modern shrapnel
      - 5 Segment and ring shell
      - 6 Incendiary shells
        - For illuminating shells see 623.45446
      - 7 Shells with high explosiv Torpedo shells
      - 8 Armorpiercing shells and other projectils



- 623.452 Powders Explosivs  
 See also 662.2 Powder manufacture
- 1 Gunpowder  
 2 Other powders  
 9 Other explosivs
- .453 Fixt ammunition
- .454 Exploding devices and fireworks  
 See also 662 Pyrotechnics, explosivs, matches, etc.
- 1 Matches and fuzes  
 11 Slow matches and fuzes  
 12 Quick matches and fuzes  
 2 Exploders  
 21 Percussion caps  
 22 Primers  
 23 Projectil fuzes  
 24 " detonators  
 29 Other exploders, etc.  
 3 Fireworks, bombs, etc.  
 For torpedoes see 623.9  
 31 Incendiary devices  
 32 War rockets  
 33  
 34 Petards  
 35 Camouflets  
 4 Illuminating fireworks  
 41 Links  
 42 Torches  
 43  
 44 Signal rockets  
 45  
 46 Illuminating projectils Star shells
- .455 Small arms ammunition  
 For powder see 623.452
- 1 Spheric bullets  
 2 Elongated bullets Minie ball  
 3 Cartridges Fixt ammunition  
 32 Jacketed bullets  
 35 Prohibited bullets: Dumdum or expanding; explosiv  
 Those prohibited by Hague conference
- .46 Artillery accessories
- .461 Battery tools
- .462 Instruments  
 1 Sighting apparatus; rear sight, quadrants, elevating arcs,  
 range scales  
 5 Range finders
- .463 Implements: rammers, swabs, levers
- .47 Arsenals  
 Subdivide like 621.7

623.48	Preservation and care of munitions		
	Reception, tests, accidents		
.481	Preservation		
	1	Magazines	
	2	Guns	
	3	Carriages	
	4	Small arms	
.482	Reception	Tests	Buying
	1	Inspection	
	2	Acceptance tests	
	3	Function of commissions	Experimentation
.483	Accidents	Explosions; preventiv mesures	
	1	Accidents to persons	
	2	" material	
	21	Accidents to arms	
	22	" in transit	
		Damage to boats, cars, etc.	
	23	Accidents to structures	
.5	<b>Gunnery</b>		
	Theoretic and experimental; efficiency of artillery system as a whole		
.51	Theory and strength of guns		
.52			
.53	Interior ballistics		
	Effects of powders; experiments		
.54	Exterior ballistics		
.55	Sighting and firing		
.551	Field and mountain guns		
.552	Siege guns		
.553	Fortress, coast and naval gun :		
.554	Naval target practis		
.56	Effect of projectiles		
.561	On living targets: impact, gases		
.562	" inanimate targets		
	1	Earthworks	
	2	Masonry	Concrete
	3	Armor	
.57	Reaction of mounts		
.571	Rigid rolling mounts		
.572	" " sliding "		
.573	Theory of braking		
.574	Mechanically controlld recoil		
.575	Nonrecoil mounts		
.58	Traction of carriages		

- 623.6 **Military roads, bridges and bildings**  
 From the special point of view of military servis      For construction in general  
 see 690.1 and 721; for bridges, roads and railways see 624 and 625; for seacoast  
 walls, 627 Hydraulic engineering
- .61 **Military bildings**  
 Duplicating 725.18 for military engineers. Libraries should use 725.18 and  
 leave 623.61-624 vacant; for construction of fortifications see 623.1
- .611
- .612 **Barracks**
- .613 **Military establishments**  
 Groups of bildings forming a unit; e.g. military schools, army posts
- .614 **Magazines**
- .62 **Military roads and thorofares**  
 See also 625.7 Construction of roads
- .63 **Military railways**  
 See also 625 Railway construction
- .631
- .632 **Destruction of tracks**
- .633
- .634
- .65 **Military bridges**  
 For permanent bridges see 624
- .651
- .652 **Pontoon bridges**
- .653 **Trestle bridges**
- .654 **Other temporary bridges**
- .66 **Bridge material**
- 7 Military signals      Aeronautics, etc.**  
 Special military applications of science
- .71 **Military topografy**  
 Special processes and instruments. See also 526 Topografy in general
- .72 **Photografy**  
 Reproductiv processes applied to military art. See also 770 Fotografy
- .73 **Signaling      Military telegrafy**
- .731 **Visual signals: heliografs, searchlights, etc.**
- .732 **Military telegrafy**  
 Both wire and wireless. See also 621.382 and 654 Telegrafy
- .733 **Military telefony**  
 Both wire and wireless. See also 621.385 and 654.6 Telefony
- .74 **Military aeronautics**  
 For principles see 533.6 Aeronautics; for construction of airships see 629.13  
 Class here only military utility
- .741 **Machines lighter than air**
- .742 **Free balloons**
- .743 **Dirigible balloons**
- .744 **Captiv balloons**
- .745
- .746 **Machines hevier than air: aeroplanes**
- .749 **Other**
- .75 **Military sanitation**  
 Camp sites: soil, water, drainage, etc. For personal hygiene see 613.67

- 623.8 Naval architecture Shipbilding**  
 Including warship accessories. Class here comprehensiv works on shipbilding. Subdivide with 001-009 and 02-09 like 620. For ship design and theory see 623.81 Design; for principles of flotation see 532.3 Floating bodies
- .81 **General Design**  
 Class here also separate discussion of such general questions as flotation, displacement, stability, strength, resistance, propulsion and design; i. e. speed and power, coal endurance and steaming radius, passenger or cargo capacity, etc.
- .82 **Types of ships and boats**
- .821 **Primitiv and early forms**
- 2 **Rafts, catamarans, dugouts; galleys**
- .822 **Modern sailing vessels**
- 5 **Caravels, sailing yachts, etc.**  
 See also 799 Yachting; 623.824 Power yachts
- .823 **Engin driven vessels**  
 Steam, internal combustion, electric, etc.
- 2 **Tugs and lighters**
- 4 **Ferry boats: passenger, freight and train**
- .824 **Passenger and cargo vessels**  
 River, lake or ocean liners; power yachts, etc. For tugs, ferryboats, small motor boats, etc. see 623.823
- .825 **Warships**  
 Fighting vessels: battleships, cruisers, gunboats, monitors, torpedo boats, submarines. For sailing men-of-war see 623.822
- .826 **Other government vessels**  
 Transports, hospital ships, store and fuel ships (supply, food, refrigeration, ammunition ships; colliers, oilers, mineplanters, etc.) repair ships, lightships and lighthouse tenders, police boats, revenue cutters, fish commission boats, fireboats, etc.
- .828 **Other power vessels**  
 Ships for cable laying, icebreakers, trawlers, etc. For dredges see 627.7
- .829 **Other boats**  
 Flatboats, scows, lighters, canal boats, barges, rowboats and canoes, life-boats, surf boats
- .83 **Appliances peculiar to shipbilding**  
 Model tanks and experiments, including also Froude's tests on full size ships launching ways and launching; dry or graving docks; moldloft and scribeboard
- .84 **Hull and its accessories**  
 Structural: watertight compartments; systems of construction (wood, composit, iron and steel), structural details (framing, bulkheds, etc.)  
 Nonstructural: joinery, nonstructural decks
- .85 **Hull accessories: masts and spars; rudder and steering gear; drainage, etc.**  
 Lighting, ventilating, heating, refrigerating; electric plant and lighting for ship installation only; see also 621.3 Electric engineering  
 Ship fittings: doors, hatches, etc.
- .86 **Equipment and outfit**  
 Superadded, not bilt in, but necessary for effectiv use of ship  
 Sails and rigging; anchors, chains, cables, hawsers; compasses, sounding machines, speed logs; boats, rafts, life preservers, buoys;  
 Furniture, saloon and cabin furnishings; table and galley (kitchen) outfit.  
 See also domestic economy, 645
- .87 **Propelling machinery**  
 Vibration and balancing. For theory of propulsion see 623.81  
 See also 621.12 Marine engins; 621.165 Steam turbins; 621.18 Boilers
- .9 **Armor and armament**  
 Distribution, armoring; proper hight, etc; battery  
 For manufacture of armor plate see metallurgy, 669.1 Iron and steel
- .95 **Torpedoes**  
 Launching tubes and other accessories

Subdivide if wisht like 620.1-.9 and 620.0

- .1 General**
- .12 Purpose**  
Highway, foot bridges, etc. regardless of structural type
- .13 Location Approaches**
- .15 Foundations**  
General works Foundations of bildings are better clast 721.1
- .151 Foundation bed Nature of soil**
- .152 Excavation, timbering, shoring**
- .153 Material for bilding foundations**  
For material for superstructure see 624.01
- .154 Pile foundations**
- .155 Platform foundations**
- .156 Subaqueous foundations**  
Processes: cofferdam, caisson, freezing
- .16 Piers and abutments**  
Wood, masonry, metal. Subdivided like 620.1
- .17 Stresses and strains**  
General; if limited to a special type, class with that type
- .171 General Computation of stresses**
- .172 Loads**  
Dead, live or moving loads
- .173 Highway**
- .174 Railway**
- .175 Wind pressure**
- .176 Working stresses**
- .2 Girders and girder bridges Floor systems**
- .21 Girders**  
Continuous; discontinuous or independent
- .22 Solid beams**
- .222 Wood**
- .227 Metal**
- .23 Plate girders Lattis girders**
- .24 Trestles**
- .25 Floor systems**
- .26**
- .27 Girder bridges**
- .3 Trusses and trussed bridges**  
Constructed of systems of braced girders
- .31 Simple truss**
- .32 Continuous truss**
- .35 Cantilever truss Balance bridge**
- .4 Tubular bridges Box-girder bridge**

- 624.5 Suspension bridges**
- .52 Flexible Rope bridge
  - .53 Rigid
  - .55 Cables
  - .56 Towers or piers
  - .57 Anchorage
  - .6 Arch bridges**
  - .62 Wood
  - .63 Masonry
    - Stone, brick, concrete, reinforced concrete
  - .67 Metal: iron and steel
  - .68 Hinged arch
  - .7 Compound structures**
    - Structurally compound; e. g. plate girder and suspension, trussed arch
  - .8 Movable bridges Drawbridges**
  - .82 Bascule: counterpoise, folding
  - .83 Swing: pivot, swivel, turning
  - .84 Lifting
    - Whole bridge lifted vertically
  - .85 Rolling
    - Floating; see also 624.87
  - .86 Aerial and other traveling bridges
  - .87 Pontoon bridges: floating, boat or raft
  - .88
  - .89

**625 Railroad and road engineering**

*Road building  
care of roads*

May be divided by 0 and 00 like 620. For railway operation see 656

- .1 Way and works**
- .11 Route**
  - Reconnaissance, preliminary and locating surveys; center line; grades; curvs; switchbacks
- .12 Permanent way Roadbed**
  - Earthwork: surveys, computation, classification, cuts and fills. Drainage
- .13 Structures: tunnels, culverts, snowsheds**
  - Class here general works on tunnels; see also mining 622.26
  - For bridges and trestles see 624; for transportation buildings see 725.3
- .14 Track: ballast, ties and tieplates, strains**
  - Including also rails and their accessories
- .146 Monorail tracks**
- .15 Rails and accessories**
  - Rail braces, rail joints, chairs, track bolts, nut locks, spikes
- .16 Track accessories**
  - Turnouts, switches, sidings, bumping posts; crossings: signals; turntables; ashpits, track tanks; cattle gards
- .17 Road maintenance and repair Materials**
- .18 Road equipment**
  - Fences, gates, platforms, track scales, yards, etc. Stations, depots, shops, etc. considered as road accessories
  - For stations, depots, roundhouses, etc. see 725.3
  - For shops see 621.7
- .19 Other topics**

- 625.2 **Trains and accessories**  
 Interrelations of road and rolling stock; strain and wear  
 For car bilding see 699  
 For time tables, traffic, etc. see 656
- .21 **Running gear**  
 Trucks, bogies and Bissell bogies; wheels, axles, tires, balancing: axle boxes  
 and gards; lubrication  
 Suspension, bearing springs
- .22 **Cars**  
 Transverse section of car and track gage  
 Effect of length of car in rounding curvs
- .23 **Passenger cars**
- .24 **Freight and combination cars**
- .25 **Brakes      Buffers and couplings**
- .26 **Power requirements**  
 Length and weight of trains. Speed  
 See also 621.13 Steam engines; 621.3342 Electric engines; 621.43 Gas engines
- .27
- .28 **Monorail rolling stock**
- .3 **Inclined and mountain railways**
- .32 **Funicular railways**
- .33 **Rack railways**
- .4 **Elevated and underground roads, subways**
- .5 **Cable roads**
- .6 **Street railways, tramways**  
 See also 621.33 Electric traction; 625.4 Elevated and underground railways  
 625.5 Cable roads; 699 Carbuilding;
- .7 **Roads, highways, streets**  
 See also local government 352.7 Streets, highways; for pavements see 625.8
- 71 **Road systems**
- 711 **Rural**
- .712 **Urban**
- .72 **Location**  
 Preliminary and locating surveys      Grades      Curvs
- .73 **Roadbed, foundation**  
 Earthwork      Subsurface drainage
- .74 **Dirt roads      Crowning      Drainage**
- .75 **Surfacing      Oil and other binders**
- .76 **Maintenance and repair**
- .77 **Trees      Parkings**
- .78 **Subsurface condits, pipes, etc.**  
 Sewers; water, steam and gas pipes as affecting roads
- .79 **Other topics**

- 625.8 Pavement**
- .81 Flagstone
  - .82 Stone blocks and brick  
Including cobblestone. Requirements of paving stones  
For vitrified brick see 625.87
  - .83 Wood pavements  
Corduroy, plank, blocks
  - .84 Concrete pavements
  - .85 Asphalt
  - .86 Stone roads  
Macadam, telford and other broken stone processes
  - .87 Metal, vitrified brick, reinforced blocks  
For other brick pavements see 625.82
  - .88 Sidewalks  
May be divided like 625.81-.87
  - .888 Curbs
  - .89 Other topics
  - .9 Ship railways

**626 Canal engineering**

- .1 Route
- .2 Water supply
- .3 Size and shape
- .4 Locks
- .5 Lifts and inclined planes
- .6 Canal boats: size, shape, etc See 623.829 Shipbuilding
- .7 Towing; power, etc.
- .8 Irrigation canals and other irrigation works
- .9 Ship canals

*irrigation on a large plain not farms or fields.*

**627 River, harbor, and general hydraulic engineering**

- .1 Rivers: force of water, discharge, bars
- .2 Harbors Breakwaters
- .3 Docks Piers Quays Shipping facilities
- .4 Dikes and levees, embankments
- .5 Other protection and reclamation of land from tides and waves, drainage For agricultural drainage see 631
- .6 Jetties
- .7 Dredging Dredging machinery
- .8 Dams
- .9 Lighthouses Buoys

**628 Sanitary engineering Waterworks**

- .01 Theories, utility .02 Compendis .03 Dictionaries .04 Essays .05 Periodicals .06 Societies .07 Study and teaching .08 Polygraphy .09 History and description of sanitation and general sanitary works, divided geographically like 930-999
- .1 Water supply of towns For isolated supply see 628.7
- .11 Sources of water supply  
Lakes, rivers, springs, wells, and pumping
- .12 Pumping vs gravitation systems  
Pump well, standpipe, high servis, Holly system

*on large scale not here*



- 628.13 Storage and servis reservoirs
- .14 Conditis, aqueducts, tunnels
  - See 625
- .15 Mains and servis pipes
  - Freezing, iron, led
- .16 Impurities and their removal: filter basins, etc.
- .17 Public (sprinkling, fire, flushing), manufacturing, and domestic use and waste; meters
- .2 Sewerage works**
- .21 Sewerage systems
  - .211 Combined system
  - .212 Separate system
  - .213 Liernur system
  - .214 Shone system
  - .215 Berlier system
  - .216 Other systems
  - .217 Outfall
  - .218 Depth and allinement
  - .219 Grade and velocity
  - .22 Shape and size of sewers
    - .221 Stormwater flow
    - .222 Ordinary flow
    - .223 Circular section
    - .224 Ordinary eg shape
    - .225 Other eg shapes
    - .226 Other forms
    - .227
    - .228 Formulas for size
  - .23 Ventilation of sewers
    - .231 Openings in streets
    - .232 Lamp posts
    - .233 Flues in houses
    - .234 Pipes on houses
    - .235 House drains
    - .236 Chimneys and furnaces
    - .237 Charcoal and chemicals to deodorize sewer gas
    - .238 Special mechanism
    - .239 Special construction
  - .24 Design and construction of sewers
  - .25 Sewer appurtenances
    - .251 Junctions
    - .252 House connections
    - .253 Manholes and lampholes
    - .254 Flushing shafts and fixtures
    - .255 Catch basins and inlets
    - .256 Traps and ventilators
    - .257 Valvs and penstocks
    - .258 Overflows and regulators
    - .259 Miscellaneous

- 628.26 River crossings
- .27 Intercepting and outfall sewers
- .28 Reservoirs and tank sewers
- .29 Pumping stations
- .3 **Disposal of sewage**
- .31 Physical properties of sewage
- .32 Deodorization and disinfection of solids and liquids
  - See also 628.237
- .33 Subsidence
- .34 Precipitation
  - .341 Precipitation tanks
  - .342 Mixing machinery
  - .343 Filter presses
  - .344 Precipitation by salts of alumina
    - .345 By lime
    - .346 By salts of iron
    - .347 By other methods
    - .348 Disposal of sludge
    - .349 Miscellaneous
- .35 Filtration
- .36 Irrigation
  - .361 Broad irrigation
  - .362 Ridge and furrow irrigation
  - .363 Flatbed irrigation
  - .364 Subsurface irrigation
  - .365 Intermittent downward filtration
  - .366 Carriers and appurtenances
  - .367 Drains and drainage of sewage farms
  - .368 Filtration areas
  - .369 Miscellaneous
- .37 Sewage farming      Required modifications of ordinary methods
- .38 Sewage manures
- .39 Discharge into sea, etc.
- .4 **Sanitation of towns**
- .41 Middens and privies
- .42 Pail systems
- .43 Earth closet systems
- .44 Domestic ashes and garbage
- .45 Public urinals and latrines
- .46 Street cleaning and sprinkling
- .47 Pavements and subways
- .48 Trees in streets and squares
- .49 Manufacture of fertilizers from town wastes

- 628.5 Industrial sanitation**
- .51 Factories and trades
  - .511 Prevention of dust and fumes
  - .512 Protection of throat and eyes
  - .513 Protection against infection
  - .519 Special trades
  - .52 Effluvium nuisances
  - .521 Situation of works
  - .522 Use of high chimneys
  - .523 Condensation in water
  - .524 Combustion in furnaces
  - .529 Special trades
  - .53 Smoke nuisance
  - .538 From steam generators
  - .539 From special industries
  - .54 Disposal of solid and liquid wastes
  - .541 Discharge into streams
  - .542 Absorbing wells and burial
  - .543 Clarification by subsidence
  - .544 Chemical treatment
  - .545 Filtration
  - .546 Purification by the soil
  - .549 Special methods and special trades
  - .6 **House drainage**
  - .7 **Rural water supply: villages and country houses**
  - .8 **Ventilation and heating** See 697, 644, 628.23, 622.4, 621.19  
This head is chiefly for ventilation. Most matter on heating goes in 691
  - .9 **Lighting** See 621.32, 537.83, 644, 665
- 629 Other branches of engineering

Usual form division .09 to include general accounts of voyages, but class special voyage with type of machine used

- .141        Aerostatics
- .142        Aerodynamics, bird flight, soaring
- .143        Meteorologic conditions; wind currents etc.
- .144        Aerodromes, flying grounds, parks
  - Experiment stations, landing places, sheds, hangars
- .145        Navigation
  - Atmospheric roads, airways; aerial maps, topography; airsickness; disasters
- .148        Laws, international and local
- .15        Aircraft lighter than air    Aerostation
- .151        Nondirigible
  - Hot air balloons, montgolfières; pilot balloons; balloon sonde; kite and captiv balloons
- .154        Dirigible    Airships
- .155            Rigid
- .156            Semirigid
- .157            Nonrigid
- .16        Construction
- .161            Gas envelop, material
  - Balloon fabrics, netting, gas used, apparatus for inflation
- .162            Car or basket, cabin, seats
  - Method of attaching to gas envelop
- .163            Motors
  - See 621.4387
- .164            Propellers
- .165            Steering apparatus
- .166            Balancing
- .167            Landing apparatus: anchors, parachutes
- .17        Aircraft heavier than air    Aviation
- .171            Kites
- .172            Gliders
- .173            Monoplanes
- .174            Biplanes
- .175            More than 2 planes
- .176            Helicopters
- .177            Ornithopters or orthopters
- .179            Special adaptations: hydroaeroplanes, aviettes
- .18        Construction
- .181            Structure
  - Planes, wings, ailerons etc.
- .182            Seats, cabin, etc.
- .183            Motors
  - See 621.4387
- .184            Propellers
- .185            Steering apparatus
- .186            Stability, balancing apparatus
- .187            Starting and landing apparatus
- .19        Applications of aeronautics
- .2        Motor vehicles, automobiles

# 630 Agriculture

1, ; 2, Compendis; 3, Dictionaries, cyclopedias; 4, Essays; 5, Periodicals; 6, Societies; 7, Study and teaching; 8, ; 9, History, divided like 930-99

*Buzzell, Ag. in 2nd ed. 1910. L. W. Geo.*

## 631 Farm, farmsted Soil: fertilizers, drainage

### .8 Fertilizers

- .81 History, nature, uses
- .811 Nutrition of plants; necessary principles
- .812 Production, preparation, collection, conservation
- .813 Composition
- .814 Loss of fertilizing principles
- .815 Economic value
- .816 Use Methods of application and distribution
- .817 Purchase Transport Cost
- .818 Frauds Adulterations Control; legislation, inspection, analysis

These numbers may be used when wisht after any special fertilizer as a subdivision; e. g. 631.8525 Economic value of bone as a fertilizer  
631.8733 Composition of seaweed

### .82 Mineral amendments

- .821 Lime, gypsum, plaster
- .822 Marl
- .825 Sulfate of iron

### .83 Potash fertilizers

- .831 Wood ashes, vegetable ashes, burning turf
- .832 Chlorids
- .833 Sulfates

### .84 Nitrogen fertilizers

- .841 Ammonia
- .842 Nitrates
- I Calcium cyanid

### .843 Animal industry residue: skin etc.

See also 831.852 Bone

- .844 Fish
- .845 Blood
- .846 Tankage

### .847 Vegetable nitrogen fertilizers

Cotton seed meal, castor beans, pomace

- I Nitrifying crops
- .848 Azotin, ammonite, etc.

### .85 Phosphoric acid

- .851 Natural rock
- .852 Bone
- .853 Slags
- .854 Guano
- .855 Superphosphates

### .86 Farmyard manures, etc.

631.861-.865 agreeing with 636.1-.5

- 631.87 Vegetable manures
- .871 Muck
- .872 Leaves
- .873 Seaweed
- .874 Green manures
- .875 Vegetable compost heap
- .876 Residue from vegetable industries
- .88 Fertilizer experiments
  
- 632 Pests Hindrances Blights Insects
- 633 Grains Grasses Fibers Tea Tobacco, etc.
- .1 Cereals
- 634 <sup>2</sup> ~~3~~ Fruits, orchards, vineyards, forestry
- .1 Pomaceous or pome fruits
- .2 Drupaceous or stone fruits Prunus
- .3 Citrous fruits, orange family, etc.
- .4 Minor fruits
- .41 Anonaceous fruits, custard apple family
- .42 Myrtaceous fruits, myrtle family
- .43 Sapotaceous fruits, star apple or sapodilla family
- .44 Anacardiaceous fruits, cashew family
- .45 Ebenaceous fruits, ebony family
- .46 Leguminous fruits, bean family
- .5 Nut fruits Nuciculture
- .6 Palmaceous fruits; palm family and miscellaneous tree fruits  
Cocoanuts, dates, olives, pomegranates, etc.
- .7 Small fruits: bush and herblike fruits
- .8 Grapes, vineyards
- .9 Forestry *See also 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000*
  
- 635 Garden crops; kitchen and market gardening
- .1 Edible roots, including tubers and bulbs
- .2 Tubers and bulbs
- .3 Edible leaves or flowers
- .4 Greens, pot herbs
- .5 Salads  
Generally eaten uncooked
- .6 Edible seeds and fruits
- .7 Condimental and sweet herbs
- .8 Mushrooms, truffles
- .9 Floriculture  
See also 716 Plants, flowers

636

Domestic animals

*care & feeding of domestic animals (diseases, diseases, etc.)*

See also 619 Veterinary medicine; 599.7 Zoology

.1

Horses, asses, mules

See also 682.1 Horseshoeing

.2

Cattle

See also 637 Dairy

.3

Sheep, goats

.4

Swine

.5

Poultry

.6

Birds

.7

Dogs

.8

Cats

.9

Other: camels, etc.

637

Dairy and dairy products

.1

Milk

638

Bees, silkworms, etc.

Insects whose products are useful for food or manufactures

.1

Bees, honey, wax

.2

Silkworms

.3

Cochineal

639

Hunting, trapping, fish culture, etc.

*commercial sport.*

See also 799 for sporting side

.1

Hunting, trapping, game preserves etc.

.2

Fishing as an occupation

.3

Fish culture Pisciculture

Including turtle, terrapin, frogs

.4

Oysters and other mollusks Shellfish

Oyster, clam, mussel, snail, pearl-fishing, scallop, quohog, cockle, winkle, periwinkle

.5

Crustaceans

Lobsters, crabs, crawfish, shrimps, prawns

.6

III Other sea food

Sea urchin, echinus

.7

Leeches

.8

# 640 Domestic economy

*practical side*

Public as well as private household administration covering work of housekeeper, matron, steward, janitor, etc. in hotels, clubs, apartments, boarding houses, schools, restaurants, factories, offices and other commercial buildings, churches, theaters, railway stations, ships and other public gathering places.

For economics of consumption, including standards of living, see 339; for care of library buildings see 025.9. Numbers for allied subjects in army and navy will be provided under military and naval science. See also 331.83 Food, clothes and shelter of laboring classes

## SUMMARY

- 641 Food, cookery
- 642 Serving, entertaining
- 643 Shelter, house, home
- 644 Heat, light, ventilation
- 645 Furniture, furnishings Decoration
- 646 Clothing, toilet
- 647 Administration, household management
- 648 Sanitary precautions, cleaning
- 649 Nursery, sickroom

- .1 Theories, utility, etc.
- .2 Compendis
- .3 Dictionaries, cyclopedias
- .4 Essays
- .5 Periodicals
- .6 Societies
- .7 Study and teaching
  - Schools of housekeeping, experiment stations. Investigations of home conditions. For cooking schools see 641.07
- .71 Schools and experiment stations
  - See 630.7 Agricultural schools, farmers institutes; 630.6 Farmers associations, granges, etc; 371.42 Manual training courses; 371.6764 Laboratory equipment for home economics courses; 375.64 Place in curriculum; educational values. 640.711-.74 may be used for keeping all phases of the subject in 640
- .711 College and university courses and departments
  - Schools of college grade
- .712 Secondary courses; high school
- .713 Elementary courses; below high school
- .714 Extension work
  - Courses for special needs: women's clubs, farmers' wives, etc.
- .72 Research work: experiment stations, graduate courses
  - For Sage foundation see 306
- .73 Normal courses, teachers institutes, etc.
- .74 Exhibits Museums
- .9 History

## 641 Food Cookery

*preparation of food*

For physiology of nutrition, see 612.39; for dietetics and dietary standards, 613.2; for food values, 641.1

- .01 Gastronomy Epicurism
  - Pleasures of eating, esthetics of cookery, epicures (gourmets). For gluttony, see 178.91 and 613.25
- .02 Compendis
- .03 Dictionaries, cyclopedias
- .04 Essays, addresses, lectures
- .05 Periodicals
- .06 Societies
- .07 Study and teaching
  - Cooking schools, classes and clubs
- .08 Polygraphy
- .09 History and description
  - Divided like 930-999. Including foods characteristic of different peoples, but for preparation of specific dishes (i. e. recipes) peculiar to special countries see 641.59



## 641.1 Food chemically considered      Food values      Tables

For methods of chemical analysis see 543.1; for adulterations see 614.3; for commercial preparation or manufacture see 664; for physiology of nutrition see 612.39; for dietetics see 613.2

612.39 treats of physiologic effect of different kinds and quantities of foods from purely scientific point of view, without regard to benefit or injury  
613.2 treats of food requirements in special conditions of age or disease and of the beneficial or injurious effects of different kinds of foods

641.1 translates scientific facts into familiar terms for cook and housekeeper, treats of the required amount of the different constituents and their proportion as found in various foods

### .11 Organic food constituents

#### .12 Proteids or nitrogenous foods

Meat, eggs, nuts, legumes, etc.      See also 612.398

#### .13 Carbohydrates or nonnitrogenous foods

Vegetables, cereals, fruits, sugar      See also 612.396

#### .14 Fats, oils

See also 612.397

### .15 Inorganic food constituents

#### .16 Water

#### .17 Salts, mineral or ash constituents

### .3 Animal and vegetable foods

Class here also works dealing both with food material and its preparation

Subdivided like 630 (not yet completed); e.g. 641.33 Cereals, 641.34 Fruits

#### .31 Prices      Relativ cost

Quality and other factors in buying for table

### .4 Food preservation      Markets

Subdivide like 664 (not yet completed)

For commercial methods see Chemic technology 664.8-.9; for transportation see 656 (subdivision not completed)

### .5 Cookery      Cook books

General recipes, specific directions, in whatever form (books, cards, etc) for preparing food

Distinction between 612.39, 613.2 and 641.5; in 641.5 class cook books and collections of recipes in which physiologic and hygienic effects of foods (if treated at all) are secondary; in 613.2 class dietaries and selection and preparation of food for special systemic conditions, with recipes subsidiary or with recipes and diet about evenly balanced; in 612.39 class the scientific study of physiologic effects of various foods, regardless of benefit or injury

See also 641.59 Recipes peculiar to special countries; 641.6 Cookery of specific substances; 641.7 Cookery by specific processes; 641.8 Composit dishes, ices, confectionery, beverages

#### .52 Brekfast

#### .53 Luncheon, afternoon tea, supper

#### .54 Dinner

#### .55 Economic cookery

#### .56 Special conditions

Under limitations of age, helth, ethical or religious theories, etc.

#### .562 Children

#### .563 Invalids and aged      Hospital cookery

#### .564 Ethical limitations

#### .565 Religious limitations

#### .566 Seasons and days: Lent, fast days, etc.

#### .567 Cults: Jews, Buddhists, etc.

- 641.57      **Special situations**  
                     Adaptation to large numbers, large variety, and limitations of time, place  
                     or appliances
- .572      **Hotel and restaurant cooking**
- .573      **Army and navy cooking**  
                     See also 355
- .574      **Shipboard cooking**  
                     Exclusiv of navy
- .575      **Camp and travel cooking**
- .576           **Railway dining and buffet cars**
- .577           **Itinerant companies; circuses, etc.**  
                     Methods of feeding large numbers en route or in tempora ry shelters
- .578           **Camp cooking**
- .58      **Special utensils or fuels**
- .583      **Cooking by oil**  
                     Including oil and gas together
- .584           **Cooking by gas**
- .585      **Cooking by alcohol**      **Chafing dish recipes**
- .586      **Cooking by electricity**
- .587      **Cooking by apparatus heated by steam or hot water**
- .588      **Cooking by slowly applied heat**  
                     Aladdin ovens, fireless cookers
- .59      **Cookery of special countries**  
                     Class here descriptions of national cookery or recipes for dishes character-  
                     istic of special countries or regions
- .591      **Frigid zone and cold wether**
- .592      **Tropics and hot wether**  
                     Divide farther like 930-999, using these numbers preferably only for  
                     reference and shelving books under 641.5-.578
- .6      **Cookery; clast by material**  
                     Subdivide like 641.3 (not yet completed)
- .7      **Cookery; clast by process**
- .71      **Baking, roasting**
- .72      **Braising**
- .73      **Boiling, simmering**      **Soups**
- .74      **Stewing**
- .75      **Steaming**
- .76      **Broiling, grilling**
- .77      **Frying, sautering**
- .8      **Composit dishes**  
                     Ices, confectionery, beverages, etc. See also 641.53 Luncheon, afternoon tea,  
                     supper
- .81
- .82      **Entrées**      **Made dishes**
- .83      **Salads**
- .84      **Sandwiches**
- .85      **Confectionery, candies, sweets, bonbons**
- .86      **Ices: ice cream, sherbet, water ices, etc.**
- .87      **Beverages**      **Soft drinks**  
                     See also 663 Manufacture of beverages; 663.8 Bartenders manuals, mixing  
                     drinks; 613.3 Hygiene of beverages

## 642 Serving Table Entertaining

See also 395 Etiquet

- .1 **Home and family meals**
  - Brekfast, lunch, dinner, supper. Menus and servis
  - For tables of chemic constituents and calories see 641.1
- .2 **Refreshments**
  - Afternoon tea, sandwiches, ices, soft drinks
- .3 **Camp, picnic and travel lunches**
  - Lists of supplies; suitable food and dishes; packing and accessories. For recipes see 641.53; for camp cookery see 641.578
- .4 **Entertaining**
  - .41 **Private entertainments**
    - .42 **Small numbers**
      - Luncheons, dinners, etc.
    - .43 **Large numbers**
      - Receptions, balls, garden parties, etc.
    - .45 **Public entertainments**
      - Banquets, dinners, clambakes, etc. For history of banquets, eating, etc. see 394.1 under Public and social customs. For dining room see 643.4
    - .48 **Toasts Table anecdotes and conversation**
      - See also table talk in literary miscellany
  - .5 **Table systems for large numbers**
    - .51 **Table d'hôte**
    - .52 **American plan**
    - .53 **European plan, à la carte**
    - .54 **Club: choice of combinations**
    - .55 **Harvard Memorial hall plan**
      - Harvard university plan of a fixt charge for essentials, and coupons (alimentary milage) for extras
    - .56 **Mixt plan**
      - Table d'hôte and à la carte; table d'hôte and club
    - .57 **Lunch counters Cafeteria**
    - .58 **School lunch rooms**
      - Management, prices, rules for payment, suitable food, freedom of choice, etc.
      - See also 371.716 School meals
  - .6 **Serving Carving**
    - Directions for setting table, changing courses, etc.
  - .7 **Table furnishings**
    - Linen, china, glass, plate, etc. Preferably clast here, tho possible to be considerd part of 645.66 Dining room furnishings
  - .8 **Table decoration**
    - Selection and effectiv arrangement of flowers colors, lights, centerpieces, etc.

## Shelter: house, home

For types of houses and plans see 725, 727 and 728; for materials and construction see 690; for heating and ventilation see 628.8, 644 and 697; for lighting, 628.9 and 644.3; for plumbing and gasfitting see 696; for furnishing see 645

.1

**Location, site**

Social and religious character of neighborhood; accessibility, railways, tramways, etc.; nearness to churches, schools, markets, etc. Property increasing or decreasing in value

For hygiene of soil and grounds: city, village or country see 614.77; for Sanitation, water supply and drainage see 628

.2

**Plan**

Requirements of house for convenient and economic administration; relative situation and intercommunication of rooms, amount and direction of light, etc. Special rooms: kitchen, dining room, baths, etc. For detached rooms and buildings see 728.9; for furnishing see 645; for architectural aspect of structural parts of house (foundation, floors, walls, etc.) see 721; for wall finish see 729.31

.3

**Kitchen and its equipment**

.31

**Plan: situation and arrangement**

Relation to rest of house. Housekeeper's requirements as guide to architect. Light. For plans see 728 Residences, and 728.93 Detached kitchens

.32

**Ventilation**

Carrying off odors, etc.

.33

**Stoves, ranges, cookers, hot tables, fuels**

See also 641.58 Cooking by special utensils or fuels

.331

**Fireplaces, open fires: turnspit, crane, etc.**

.332

**Coal and wood Stoves and ranges**

.333

**Oil and oil stoves**

.334

**Gas and gas stoves**

Including natural gas and acetylene

.335

**Alcohol and alcohol stoves Chafing dish**

.336

**Electricity and electric stoves**

.337

**Steam heated cooking appliances Steam tables**

.338

**Slow and fireless cookers**

Aladdin oven, Norwegian haybox. See also 641.588

.34

**Machinery and labor savers**

.35

**Utensils**

.36

**Pastry room**

.37

**Storeroom, larder Refrigerators**

.38

**Care of kitchen and accessory rooms**

.39

.4

**Dining room and adjuncts**

.45

**Serving room Butler's pantry**

.47

**Other pantries**

.48

**Cupboards**

.5

**Other special rooms**

.52

**Baths, lavatories, toilets**

.57

**Sun rooms, solariums: sleeping balconies, etc.**

.58

**Laundry**

Place in house; for equipment see 648. See also 728.93 Detached laundries

.6

**Labor savers**

General: bells, telephones, tubes, lifts, chutes, door openers and closers, etc. See also special subjects; e.g. 648.52 Vacuum cleaners

.7

**Repair**

# 644 Heat Light Ventilation

## .1 Systems of heating

Desiderata, relativ advantages for household  
For varieties of apparatus and installation see 697; for sanitary engineering  
see 628.8

## .15 Fireplaces Family hearthstone

Open fire as household institution; mental influence  
Sanitary advantages. See also 749 Artistic fireplaces

## .19 Portable heaters: bedwarmers, warming pans, footwarmers

## .2 Fuels

Relativ cost; clenliness; labor involved, e.g. hauling and carrying wood or coal  
and removing ashes. Chimney sweeping

## .21 Wood

## .22 Coal

## .23 Oil, gasoline, etc.

## .24 Gas

## .26 Electricity

## .3 Systems of lighting

Fixtures, fittings, accessories. Class here general discussion covering fixtures  
and medium, their relativ advantages, etc. For medium alone see 644.31; for  
fixtures see 644.32

## .31 Lighting medium

See also Chemic technology 665

## .311 Candles

## .312 Oil

## .313 Gas

## .314 Acetylene

## .315 Electricity

See also 621.32 Electric lighting

## .319 Other

## .32 Apparatus and accessories

Subdivide each, if wisht, like 644.31

## .321 Hand lamps Candlesticks

## .322 Lanterns

## .323 Table, banquet and piano lamps

## .324 Standards

## .325 Wall lamps Sconces

## .326 Chandeliers Ceiling fixtures

## .5 Ventilation

Most material belongs elsewhere: hygienic influence of air and light 613.1;  
sanitary engineering 628.8; ventilating apparatus 697.9. For advantages of  
fireplaces see 644.15

# 645 Furniture, carpets, upholstery Decoration

For plan and furnishing treated together see 643

See also hygiene 613.59; architectural decoration 729; design 745; artistic furniture 749; manufactures of cotton, wool, etc. 677

- .1 **Floor coverings: carpets, rugs**
- .2 **Wall coverings**
- .3 **Window and door furnishings**
  - Screens, shades, awnings, draperies
- .4 **General furniture**
  - See also 645.6 Furnishings for special rooms
  - .41 **Chairs**      **Footstools**
  - .42 **Couches**      **Settees**
  - .43 **Tables**
  - .44 **Desks**
  - .47 **Cushions, pillows, etc.**
  - .48 **Linen**
    - Removable furniture covers, centerpieces, etc. See also 642.7 Table furnishings; 645.67 Bedroom furnishings
  - .49 **Other**
- .5 **Ornaments**
  - Clocks, vases, pictures, statuary, etc. See also 739 Bronzes, brasses, bricabrac
- .6 **Special rooms**
  - For kitchen see 643.3; for laundry see 648
  - .61 **Hall and stairs**
    - Hatracks, umbrella stands, etc.
  - .62 **Drawing room**      **Reception room**      **Parlor**
  - .63 **Library**
  - .64 **Study or offis**
  - .65 **Living room**
    - Class here furnishings of room used as combined reception room, library and living room
  - .66 **Dining room**
    - For table equipment and decoration see 642.7-.8
  - .67 **Bedrooms and nursery**
    - Sleeping balconies, open air bedrooms. Beds and bedding, linen, etc. For nursery see also 649
  - .68 **Bathrooms**      **Lavatories**      **Toilets**
    - Fittings and supplies. See also 646.7 Bathing
  - .69 **Other rooms**
    - Music, billiard and ball rooms, picture gallery, servants rooms, cellar, attic
- .8 **Outdoor space**
  - Verandas, balconies, roof gardens
  - For sleeping balconies see 645.67. See also 712 Private grounds; 717 Arbors, seats, outlooks

## 646 Clothing Toilet

*Personal*

See also ethics of dress, display 177.4; ecclesiastic costume 247.7; clothing as related to economics of laboring classes 331.83; bleaching and dyeing 667.1-.3; academic costume 378.29; history of costume 391; clothesmaking 687; hygiene of clothing 613.48; adulteration of textiles 614.37; for uniforms and liveries see occupations to which they pertain

- .01 Psychology and economics of fashions
  - Reasons for change of fashions; expense of fashionable dressing
- .02 Compendis
- .03 Dictionaries, cyclopedias
- .04 Essays, lectures, addresses
- .05 Periodicals
- .06 Societies Dress reform societies
- .07 Study and teaching
- .08 Polygraphy
- .09 Adaptation to climate or season
- .091 Clothing for cold wether and frigid zones
- .092 " " hot " " tropics

### .1 Materials Textils and fibers

With reference to domestic use, or domestic use and hygiene combined. For hygiene of materials see 613.481; for general works on textiles and fibers see 677 Manufacture of textiles

- .11 Cotton
- .12 Linen Flax Hemp
- .13 Wool Mohair, alpaca, camel's hair, rabbit's hair, etc.
- .14 Silk
- .15 Lether
- .16 Fur
- .17 Other animal materials: fethers, hair, whalebone
- .18 Other vegetable materials
- .181 Rubber
- .182 Paper
- .183 Celluloid
- .184
- .185 Straw Raffia
- .186 Other fibers: jute
- .19 Other materials Tinsel, aluminum, asbestos, etc.

### .2 Sewing Knitting Crochet

For fancywork see 746

- .21 Plain sewing
  - Running, backstitching, hemming, overhanding, etc.
- .24 Mending Darning
- .26 Knitting and crochet Tattting
  - For machineknit goods see 677
- .27 Crochet

### .3 Clothing divided by wearers

Class here trade catalogs; e.g. Liliputian bazar catalog 646.36  
See also 391 Costume; 687 Clothesmaking as a trade

- .32 Clothing for men
- .34 " " women
- .36 " " children

**646.4 Clothing divided by purpose**

Including directions to amateurs for cutting and making, economic use of material, suitability of material for purpose, adaptation of style to material and purpose, choice of color, etc. For limitation to special kinds of garments see subdivisions below; e.g. patterns or catalogs of underwear 646.42  
Subdivisions .42-.48 may be farther divided by 2 Men, 4 Women, 6 Children

.42 **Underwear**

.43 **Outer house garments**

Gowns or dresses, coats, trousers, etc.

.45 **Outdoor garments**

Cloaks, coats, overcoats, shawls, sweaters, etc. See also 646.5 Hedgear, millinery; 646.48 Accessories: gloves, mufflers, etc.

.47 **Garments for special purposes**

Negligée, lounging or smoking, yachting, bathing, hunting, riding, etc.

.48 **Accessories**

Neckties, collars, cuffs, belts, aprons, caps, handkerchiefs, gloves, mufflers, garnitures, etc.

For outdoor hedgear see 646.5

.5 **Millinery Outdoor hedgear**

See 687 Millinery as a business

.52 **Hats, caps, etc. for men**

.54 **Hats and bonnets for women**

.55 **Other outdoor hedgear for women**

Hoods, scarfs, etc.

.56 **Hedgear for children**

.57 **For boys**

.58 **" girls**

.6 **Cleaning Drycleaning**

For laundry see 648.1

.7 **Toilet Cosmetics Bathing**

Care of hair, nails, teeth, etc.

For historic customs see 391.5-.6. See also hygiene, 613.4 care of body

**647 Household organization and administration**

.1 **Household accounts: finances, cost**

See also bookkeeping 657

.2 **Personnel**

Intelligence office, employment bureau

Class here regular employees or assistants; for occasional employees see 647.29

For ethical considerations, see 173.8. See also political economy, 331 Labor and wages

.21 **Manager**

Superintendent, housekeeper, steward. See also 640.8

.22 **Male employees**

.23 **Female " "**

.24 **Foren " "**

Races and nationalities: orientals, negroes, etc.

.25 **Indoor servis**

Cook, butler, waitress, parlor maid, lady's maid, chambermaid, nurse, laundress, furnaceman, etc. For housekeeper, steward, etc. see 647.21; for outdoor servis see 647.3

.29 **Other employees**

Emergency help, household registers

.3 **Servis outside the house**

Coachman, gardener, laborers



- 647.6 Wages Hours Duties
- .9 **Cooperativ and collectiv housekeeping**  
Hotels, clubs, apartments, commercial bildings, churches and other public and semipublic establishments or rooms  
See also 692.9 Bilding laws; 728 Residence architecture
- .91 **Tenements**  
See also 728.1 Tenement house architecture; 331.83 Housing of laboring classes, including tenement house laws; 613.53 Hygiene of tenements
- .92 **Apartments, flats**  
See also 728.2 Apartment house architecture
- .93 **Cooperativ housekeeping**  
See also 334.4 for economic aspect
- .94 **Hotels Clubs**  
See also 728.4 Clubhouse architecture; 728.5 Hotel architecture
- .95 **Restaurants, tea rooms, etc.**  
See also 642.5 Table systems for large numbers
- .96 **Public bildings Institutions**  
General administration and care affecting helth and convenience of occupants and public; janitor's duties. May be subdivided if wisht like 725; e.g. 647.962 Administration of offis bildings, or 647.9623 if so close classification is preferd  
See also 362 Hospitals, asylums, etc; 365 Prisons
- .97 **Cottage systems**

## 648 Sanitary precautions: laundry, cleaning

- .1 **Laundry Washing**  
Private, cooperativ, public. For other processes of clothes cleaning see 646.6  
Dry cleaning. For sanitary precautions see 648.5-.6; for pests see 648.7
- .11 **Administration Accounts**
- .12 **Marking**
- .14 **Equipment**  
Collectiv: specifications and cost. Class specific appliances with processes to which they belong
- .15 **Hand equipment**
- .16 **Power** "
- .18 **Supplies**  
Soap, starch, bluing, powders, reagents
- .2 **Washing**  
Requirements of temperature, ingredients, etc. for different materials Wash-  
ing directions
- .22 **Washing by hand**
- .23 " **machine**
- .25 **Starching**
- .27 **Bluing Tinting**
- .3 **Drying Driers Extractors Wringers**  
Confined or open air Temperature Effect on dyes of freezing, etc.
- .4 **Ironing**
- .42 **By hand Sad irons**  
Electric and gas heated irons, etc.
- .43 **By machine Collar and shirt machines, fluting irons, etc**
- .45 **Power machinery Mangle**

- 648.5 Cleaning and sanitation of house or bilding**  
 See for sanitary engineering 628; for plumbing 696; for dry cleaning 646.6; for chimney sweeping 644.2
- .52 **Sweeping and dusting**  
 Floors, walls, moldings, furniture; implements, vacuum cleaners, etc.
- .54 **Washing**  
 Porcelain, glass, windows, mirrors, paint, including table ware, bricabrac and fixtures. For washing textils see 648.2
- .55 **Polishing**  
 Silver, knobs, scutcheons, pipes and other metals
- .6 **Disinfecting**  
 Waste pipes, traps, etc. Household disinfectants. See also 649.8 Care of sickroom; and public helth, 614.48 Disinfecting apparatus
- .7 **Pests; traps, poisons**
- 649 Nursery Sickroom**  
 This provides for persons requiring special adjustment of household administration: children and invalids
- .1 **Care of children**  
 See also 136.7 Child study; 173.5 Duties of parents
- .2 **Rooms Nursery**
- .3 **Food**  
 See also 613.22 Diet of infants; 641.5 Cookery for children
- .4 **Clothing and care of body**  
 See also 646.36 Childrens clothing, outfit and making; 646.4 Clothing for various purposes; 613.4 Hygiene of bathing and clothing
- .5 **Exercise Recreation**  
 See also 613.7 Hygiene of recreation; 790 Amusements
- .55 **Amusements: toys, dolls, games**
- .6 **Manners Habits**  
 See also 173.6 Duties of children
- .7
- .8 **Care of invalids and the infirm Sickroom**

# 650 **Communication Commerce**

651 **Offis equipment and methods**

652 **Writing: material, typewriters, cipher**

653 **Abbreviations Shorthand**

.01 **Theories Available material Shading Position Detacht vowels**

.02 **Practicability for general use Teaching in public schools**

For methods see 653.07

.03 **Speed** See also 653.046, Verbatim reporting

.04 **Applications**

.041 Personal notes and records

.042 Correspondence

.043 Amanuensis work

.044 Newspaper work

.045 Shorthand job offices

.046 Official reporting, court and legislativ

.047

.05 **Periodicals** If strictly limited to one system, class with that system

.06 **Societies** " " " "

.07 **Education Shorthand schools Teaching, privately or in classes**

.08

.09 **History** Divided by countries like 930-999

.1 **Abbreviations Omissions of silent letters, vowels, etc.**

Covers desirability, dangers, lists, and all general matter about use of recognized abbreviations. See also 421.4 Phonetic spelling 421.8 Abbreviations

.2

**Abbreviation systems**

Brief longhand. Fonoscribing, etc. For telegraphic codes, see 652

Covers only systems of quick writing with common characters.

.3

**Stenografies**

Includes both discussions and systems with arbitrary signs and new characters

.31

Before 1837

.32

Gurney

.33

Gabelsberger

.34

Stolze (Dettmann)

.35

Taylor (Baker; Harding; Odell)

.36

Cross

.37

Scovil

.38

Duployé (Pernin, Sloan)

.4

**Phonetic shorthand Phonografies**

Limited to phonetic stenography, i. e. brief sound writing. .5 and .6 include only systems using Izaac Pitman's consonants

.41

Before Pitman (1837)

.42

Bell

.43

Jones

.44

Williams

.45

**653.5 Pitman old vowel scale systems**

- .51 Benn Pitman
- .52 Graham
- .53 Scott-Brown
- .54 Marsh
- .55 Thornton
- .56 Haven
- .57 Allen
- .58

**.6 Pitman new vowel scale systems**

- .61 Izaac Pitman
- .62 Munson
- .63 Longley
- .64 Burnz
- .65

**.7 Connected vowel systems**

- .71 Lindsley's takigrafy
- .72 Everett
- .73 Barrows
- .74 Bishop
- .8

**.9 Foren systems**      Divided by languages like 400

The heds above are for English systems or (as in .33) foren systems adapted to and used for English. Other systems are group't here by languages, but history of shorthand in special countries is in 653.09

**654 Telegraf Cables Signals**      For codes see 652

- .1 Telegrafic instruments
- .2 Duplex, quadruplex, multiplex telegrafs, etc.
- .3 Printing, perforating, dial telegrafs, etc.
- .4 Telegrafic construction; poles, wires, condits, etc.
- .5 Cables      Submarine
- .6 Telefonos
- .7 Alarms; burglar, fire      Annunciators, bells
- .8 Speaking tubes      Pneumatic tubes
- .9 Signals      See also 534.83 Navigation signals; 623.7 Military signals

**655 Printing Publishing Copyright**

- .1 History of printing
- .11 Origin, invention
- .111 Claims of Gutenberg, Mainz
- .112 Claims of Coster, Haarlem
- .12 Celebrations, anniversaries
- .121 1640
- .122 1740
- .123 1823
- .124 1840
- .13-.19 Printing in special countries      Divided like 930-999

- 655.2 Type and typesetting**
- .21 Type founding Tools of the art
  - .22 Electro and stereotyping, etc. Patent blocks  
For Photoelectrotyping, see 777
  - .23 Patent types, logotypes, etc.
  - .24 Faces, sizes, styles Specimen books
  - .25 Typesetting: composition, proofreading  
Artistic composition: taste, display, job work
  - .26
  - .27 Imposition Locking up, etc.
  - .28 Typesetting and distributing machines Linotype,  
monotype
  - .3 **Practical printing** For Calico printing see 657.3
  - .31 Printing presses
  - .32 Press work: making ready Colors Cuts
  - .33 Drying: hydraulic pressing, etc.
  - .34
  - .35 Stamps, stencils, etc.
  - .36 Machines: paging, numbering, addressing, etc.  
See also 654.3 Printing telegraphs; 651 Typewriters
  - .37 Nature printing From plants, etc.
  - .38 Printing for blind See also 371.91 Education of blind
  - .4 **History of publishing and bookselling**  
Divided by countries like 930-999
  - .5 **Publishing and bookselling**
  - .51 Selection of mss  
For freedom of press vs censorship, see 323; Morals of press 179.1
  - .52 Relations to authors  
Copyright payments, prices of mss bought
  - .53 Size, paper, type, illustrations, binding
  - .54 Cost of manufacture  
Retail prices and discounts to dealers
  - .55 Advertising, press copies and notices See 659.1 Advertising
  - .56 Retail bookselling Prices and discounts to buyers
  - .57 Subscription book publishing, canvassing
  - .58 Publishing societies
  - .59 Publishing by governments, institutions, etc.
  - .6 **Copyright Literary property**
  - .61 Perpetual or common law right  
Including ethics of copyright
  - .62 Copyright in other matter than books  
Music, mss, lectures, trademarks
  - .63 International copyright  
See also 341.5 International private law
  - .64-.69 Copyright in special countries  
Divided like 940-999
- 656 Transportation: railroading, etc.**
- 657 Bookkeeping Accounts**
- 658 Business manuals Methods Tables**
- 659 Other topics** *advertising, salesman help.*
- .1 Advertising**

*Management after  
valued is lost  
books on management  
management  
efficiency*

# 660 Chemic technology *uses of chem.*

- .1
  - .2 Compendis
  - .3 Dictionaries, cyclopedias
  - .4 Essays
  - .5 Periodicals
  - .6 Societies
  - .7 Study and teaching
  - .8
  - .9 History
- of chemic technology

## 661 Chemicals

- .1 Chemic elements Divided like 546
- .2 Acids: sulfuric, nitric, etc.
- .3 Alkalies: potash, soda, ammonia
- .4 Salts For common salt see 664.4
- .5 Ammonia salts
- .6 Sulfates and nitrates
- .7 Cyanids
- .8

## 662 Pyrotechnics Explosivs, matches, etc.

- .1 Pyrotechnics
- .2 Explosivs See 622.23 Blasting; 623.4 Ordnance
- .3 Gunpowder
- .4 Fuses, percussion caps
- .5 Matches
- .6 Fuel: coal, peat, natural gas, etc.
- .7 Charcoal, coke See also 644 Domestic economy 669.8 Metallurgy
- .8 Artificial fuel See also 644 Domestic economy 669.8 Metallurgy
- .9

## 663 Beverages See also 178 Temperance 614.35 Adulterations

- .1 Fermented
- .2 Wine
- .3 Brewd
- .4 Beer
- .5 D stild
- .6 Artificial mineral waters: soda water
- .7
- .8 Mixing drinks Barkeepers manuals
- .9 Chocolate, cocoa Commercial mixing of teas, coffees, etc.

## 664 Foods

- For Adulterations see 614.31 Public helth. See also 641 and 643 Domestic economy
- .1 Sugar, molasses, glucose, etc.
  - .2 Starch, tapioca, sago, etc.
  - .3 Artificial butter, oleomargarin Lard, compound lard  
For butter, milk, and cheese see 637 Dairy
  - .4 Salt
  - .5 Spices Condiments
  - .6 Yeast Baking powder  
For Bread see 641 Cookery
  - .7
  - .8 Preservation of fruits and vegetables
  - .9 " " meat and fish

## 665 Oils Gases Candles Lamps

- .1 Candles Torches
- .2 Animal oils and fats See also 664.3 Foods
- .3 Vegetable oils and fats
- .4 Mineral oils: paraffin, ozocerite, asphaltum
- .5 Petroleum, kerosene
- .6 Lamps See also 644.32 Domestic economy
- .7 Illuminating gases Calcium light
- .8 Other gases
- .9

## 666 Ceramics Glass, etc.

- .1 Glass See also 748 Stained glass
- .2 Enamel
- .3 Ceramics See also 738 Pottery, porcelain
- .4 Clay See also 553.61 Economic geology
- .5 Porcelain
- .6 Stoneware, earthenware, pottery
- .7 Bricks Tiles See also 691.4 Building materials; 695.3 Roofing
- .8 Artificial stone See also 691.3 Building materials
- .9 Cements Limes Mortars See also 691.5 Building materials

## 667 Bleaching, dyeing, etc.

- .1 Bleaching
- .2 Dyeing Artificial colors Silk and wool
- .3 Cotton dyeing and calico printing
- .4 Inks: writing inks, indelible inks
- .5 Printing inks
- .6 Paints and pigments See also 698.1 House painting; 751 Fine arts
- .7 Varnishes Polish Lacker See also 698.3 Varnishing
- .8 Japan Blacking
- .9

## 668 Other organic chemical industries

- .1 Soap
- .2 Glycerin
- .3 Glue
- .4 Gums and resins
- .5 Essences, perfumery, essential oils and ethers, etc.  
See also 646 Toilet
- .6 Fertilizers See also 631 Agriculture
- .7 Distillation: coal tar, etc.

## 669 Metallurgy and assaying

History of metals goes here, not in 553, 622, nor 671

- .1 Iron and steel
- .2 Gold and silver
- .3 Copper
- .4 Lead
- .5 Zinc
- .6 Tin
- .7 Mercury and other metals
- .8 Fuels and furnaces Slags
- .9 Assaying

## 670 Manufactures

*Use on use of steel in general subject requires a general*

Specific topics go where of most interest. These heds are for the *general* subject of metal, wood, etc. manufactures, and for such specific manufactures as are not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject; e. g., a steam engine is certainly made of metal, but its manufacture should go under 621.1, not 672. The character of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood churns with the dairy, 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library will incline to the special subject, as a more minute classification is thus obtained, and references under 670 answer inquiries for all the library has on the subject of brass or rubber or paper manufactures. Whether group by use or material, if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and oftener wanted. But if the uses are various the general hed is better; e. g. bells are for scores of distinct uses, but their manufacture is a unit; but all churns are for the dairy

### 671 Articles made of metals

672 Of iron and steel; stoves, cutlery, etc.

673 Of brass and bronze; bells, etc. See also 739

### 674 Lumber and articles made of wood

675 Leather " " " " leather

676 Paper " " " " paper

677 Cotton, wool, silk, linen, etc.

678 Rubber and articles made of rubber

679 Celluloid and other

## 680 Mechanic trades *boy's handicraft* Amateur manuals

681 Watch and instrument making

682 Blacksmithing

.1 Horseshoeing

683 Lock and gun making

684 Carriage and cabinet making

Furniture. See also 749 Artistic furniture; 694.7 Fine joinery, interior finish

685 Saddlery and shoemaking Trunks

686 Bookbinding

687 Clothesmaking Hats

688

689 Other trades



## 690 Buildings

For Architectural construction, see 721

- .1 Theories of construction
- .2 Compends, manuals
- .3 Dictionaries, cyclopedias
- .4 Essays, lectures
- .5 Periodicals
- .6 Societies, exhibitions
- .7 Education, study, training, apprenticeship, tools and their use (for use of special tools see special trade)
- .8 Collections, patents, inventions
- .9 History of bilding construction

## 691 Material Processes Preservativs

Water-proofing See also 620.1 Strength of Materials

- .1 Wood Creosoting, etc.
- .2 Natural stone Paraffining, etc.
- .3 Artificial stone Concrete
- .4 Bricks Tiles Other ceramic products
- .5 Lime Cement Plaster
- .6 Glass
- .7 Iron Steel Antirust processes
- .8 Other metals
- .9 Other materials

## 692 Plans Specifications, etc.

- .1 General drawings
- .2 Detail drawings
- .3 Specifications
- .4 Contracts Agreements Bids Advertisements
- .5 Estimates Quantities Costs
- .6 Superintendence
- .7 Supervision of accounts
- .8 Professional servises Fees Commissions
- .9 Bilding laws Liabilities of architects, owners, and contractors

## 693 Masonry Plastering Fireproofing

- .1 Stone construction
  - .11 Bonds of stone work
  - .12 Cutting and dressing of stone
    - See 515.8 Stereotomy; 736 Stone carving
- .2 Brick construction
  - .21 Bonds of brick work
  - .22 Adobe or sundried brick, etc.
- .3 Terra cotta construction
- .4 Hollow tile and porous terra cotta construction
- .5 Concrete and beton construction
- .6 Plastering
  - .61 External plastering and stucco
  - .62 Internal plastering
  - .63 Ornamental plaster work
  - .64 Scagliola
  - .65 Wooden lath
  - .66 Metal lath (Wire, etc.)
  - .67 Mineral wool linings, etc.
- .7
- .8 Fireproofing
- .9

- 694 **Carpentry: joinery, stairbiling**
- .1 Wood construction; general
  - .2 Joints of woodwork Framing
  - .3 Strengthen beams
  - .4 Posts Columns See also 721.31
  - .5 Panel and lattice construction
  - .6 Joinery, general For Finishing, varnish, polish, etc. see 698.3
  - .7 Ornamental joinery Cabinet work  
For cabinetmaking see 684
  - .8 Stairbiling See also 515.83 Stereotomy
  - .9 Other branches See also 721.87-89
- 695 **Roofing: slating, tiling** For roof construction see 721.4
- .1 Shingle
  - .2 Slate
  - .3 Tile
  - .4 Metal: tin, copper, lead, zinc
  - .5 Iron
  - .6 Asphalt Tar Concrete (Melted)
  - .7 Felt Asbestos Paper (In rolls)
  - .8 Textil: duck, canvas
  - .9 Thatch and other coverings
- 696 **Plumbing Gas and steam fitting, etc.**
- .1 Plumbing For principles of sanitation see 628
  - .2 Gasfitting
  - .3 Steamfitting
  - .4 Rivets and riveted joints
  - .5 Screws and screw joints
  - .6 Rust or calkt joints
  - .7 Anchors Band irons
  - .8 Other branches
  - .9 Plumbing laws See also 614 Public health
- 697 **Heating and ventilation** *interior of houses not engineering standard*  
See also sanitary engineering, 628.8; domestic economy, 644
- .1 Fireplaces
  - .2 Stoves
  - .3 Furnaces
  - .4 Hot water, high and low pressure
  - .5 Steam, high and low pressure  
For boilers, see 621.184; for power plants, see 621.19
  - .6 Gas: coal gas, water gas, natural gas
  - .7 Electric and other methods
  - .8 Smoke flues and chimneys
  - .9 Ventilation: air ducts, condits, fans

698 Painting Glazing Paperhanging

- .1 **Painting** Oil
- .2 Distemper and fresco
- .3 Varnishing Polishing
- .4 Other modes of protection

.5 **Glazing** For Stained glass see 748

.6 **Paperhanging**

.7 **Textil hangings: tapestry**

For tapestry design, see 745

.8 **Relief work: lincrusta, stamped leather, etc.**

.9 **Other branches**

699 Carbuilding

# Fine Arts

## 700 Fine arts

- 701 Philosophy: theories, utility, esthetics
- 702 Compendis, outlines
- 703 Dictionaries, cyclopedias
- 704 Essays, lectures, addresses
- 705 Periodicals, magazines, reviews
- 706 Societies: transactions, reports, etc.
- 707 Education: study and teaching of art
- 708 Art galleries and museums
  - .1 American: Corcoran, Metropolitan, Boston
  - .2 English: National, Hampton Court, Windsor
  - .3 German: Dresden, Munich, Berlin, Vienna
  - .4 French: Louvre, Luxembourg
  - .5 Italian: Vatican, Sistine, Pitti, Medici, Borbonico
  - .6 Spanish: Madrid, Seville
  - .7 Russian: St Petersburg, Hermitage
  - .8 Scandinavian: Copenhagen
  - .9 Other countries

709 History of art in general Divided like 930-999

## 710 Landscape gardening

- 711 Public parks
- 712 Private grounds, lawns
- 713 Walks Drives
- 714 Water: fountains, lakes
- 715 Trees Hedges Shrubs
  - See also 634.9, Forestry; 582, Botany
- 716 Plants Flowers
  - .1 Plants
  - .2 Flowers
  - .3 Conservatories
  - .4 Window gardens
  - .5 Ferneries
- 717 Arbors Seats Outlooks
- 718 Monuments Mausoleums
- 719 Cemeteries See also 393.1 Earth burial; 614.61 Public health

# 720 Architecture

.1 Theories, esthetics, architectonics .2 Compendis, manuals .3 Dictionaries, cyclopedias .4 Essays, lectures .5 Periodicals .6 Societies .7 Education, study, training, schools of architecture .8 Polygrafy, collections .9 General history of architecture, divided geografically like 940-999

## 721 Architectural construction

- .1 Foundations** See also bridge engineering, 624.1 Foundations
- .11 Foundation bed** Nature of soil Load on foundation  
Trial borings. Rock, sand, gravel, peat, quicksand
- .12 Excavation: timbering, shoring**
- .13 Material for bilding foundations**  
Divided like 620.1
- .132 Wood**
- .133 Stone, cement, concrete**
- 2 Stone, dimension or rubble**
- 5 Cement**
- 6 Concrete**
- .134 Brick**
- .14 Pile foundations: general** Material
- .141 Sand piles**
- .142 Wood or timber piles**
- .143 Concrete piles**
- .147 Iron piles**
- .15 Pile foundations: method of sinking**
- .151 Piledriver**
- .152 Screw pile** Boring anchor
- .153 Disk pile**
- .154 Hydraulic pile**
- .155 Pneumatic pile**
- .16 Platform and other special foundations**
- .162 Timber platforms or gratings: plank foundations**
- .163 Concrete platforms**
- .164 Iron and concrete: reinforced concrete platforms**
- .165 Masonry platforms**
- .166 Concrete legs or stilts**
- .167 Cantilever foundations**
- .17 Subaqueous foundations**
- .171 Cofferdams**
- .172 Open crib or caisson** Cylinder foundations
- .173 Pneumatic caisson**
- .174 Freezing**
- .175 Pneumatic forcing**
- .176 Sunken wells: dredging thru wells**
- .177 Sunken tubes**

**721.2****Walls**

- .21 Wood and halftimberd
- .22 Stone
- .23 Artificial stone, concrete, pisé, etc.
- .24 Brick
- .25 Bases      Water tables      Belt courses
- .26 Arcades      Colonnades
- .27 Cornises
- .28 Gables and pediments      See also 721.58 Gable roofs
- .29 Other walls

**.3 Piers      Columns**

- .31 Wood      See also Carpentry 694.4
- .32 Stone
- .33 Concrete, artificial stone
- .34 Brick, terra cotta
- .35 Iron, steel
- .36 Fireproof      Protected

.38

.39

**.4 Archt constructions**

See 624.6 Archt bridges; and 729.33 and 729.37 Elementary forms

- .41 Arches, circular
- .42 Arches, other forms
- .43 Vaults, cylindric
- .44 Vaults, groind
- .45 Vaults, other forms
- .46 Domes, circular
- .47 Domes, other forms

.48

.49

**.5 Roofs**      See also 695 Roof coverings; 624.9 Engineering, roofs

- .51 Wood
- .52 Masonry
- .53 Glass
- .54 Metallic
- .55 Windows      Openings in roofs
- .56 Roof decoration: cresting, repoussé work, colord tiles, etc.

See also 695.3

.57 Spires and domes

.58 Gables      See also 721.28 Gable walls

.59 Other forms of roofs

**.6 Floors and flooring**

- .61 Wood      Construction and coverings
- .62 Stone      "      "
- .63 Brick and hollow tile      "      "
- .64 Metallic      Compound      "      "
- .65 Composit      "      "
- .66 Parquetry      Coverings only
- .67 Mosaics      "      "
- .68 Tiles      See 695.3 Roofing tile
- .69 Other coverings

- 721.7 **Ceilings**  
 .71 Wood  
 .72 Stone  
 .73 Brick or tiles with iron  
 .74 Metallic  
 .75 Concrete Plaster  
 .76  
 .77  
 .78  
 .79

For vaulted ceilings, see 721.4 and 729.34

- .8 **Doors Gates Grilles Windows**  
 .81 Doors, wooden  
 .82 Doors, metallic  
 .83 Doors, sash, lattis, screen, etc.  
 .84 Windows, external  
 .85 Windows, internal  
 .86 Inclosures of doors and windows  
     Architraves Pilasters Jambes Pediments Lintels, etc.  
 .87 Shutters Blinds Screens Grilles  
 .88 Fastenings Locks  
 .89 Other details  
 .9 **Iron and composit structures**  
     For strength of materials, see Engineering, 620.11  
 .91 Cast iron  
 .92 Wrought iron  
 .93 Steel  
 .94 Composit  
 .95 Iron and wood  
 .96 Iron and stone  
 .97 Iron and brick, tile, terra cotta  
 .98 Iron and glass  
 .99 Wood and glass

## 722 Ancient and Oriental architecture (Pagan)

See also 571.8 Prehistoric dwellings

- .1 **Chinese Japanese**  
 .2 **Egyptian**  
 .3 **Phenician Tyrian Jewish Carthaginian Cypriote**  
 .4 **Indian (Asiatic)**  
     Hindu, Buddhist, Jaina, Himalayan, Dravidian, Chalukyan, Indo-Aryan, Burmese,  
     Siamese, Cambodian  
 .5 **Chaldean Assyrian Babylonian Ancient Persian**  
     Sassanian  
 .6 **Pelasgian Etruscan**  
 .7 **Roman** See 729.32 for Roman orders  
 .8 **Grecian** See 729.32 for Greek orders  
 .9 **Other: Aztec, Peruvian, Maya, Yucatan, etc.**

## 723 Medieval Christian Mohammedan

- .1 Early Christian
- .2 Byzantine Armenian Russian
- .3 Mohammedan: Saracenic, Moorish, Persian, Turkish,  
Indian For Ancient Indian see 722.4
- .4 Romanesque
  - .41 Scotch Irish
  - .42 English Saxon Norman
  - .43 German Austrian
  - .44 French Provençal Norman Angevin
  - .45 Italian Sicilian Norman
  - .46 Spanish Portuguese
  - .47
  - .48 Danish Swedish Norwegian
  - .49 Minor countries
- .5 Gothic or pointed Divided like 723.4

## 724 Modern

All the subsections of 724 are subdivided geographically like 940-999

- .1 Renaissance
- .2 Grecian revival
- .3 Gothic revival
- .4 Victorian Gothic Tudor
- .5 Queen Anne
- .6 Néo-Grec
- .7 Swiss Timber
- .8 Romanesque revival
- .9 Other styles

## 725 Public buildings

- .1 Administrativ Governmental
  - .11 Capitols Houses of parliament
  - .12 Ministries of war, state, etc.
  - .13 City and town halls Bureaus Public offices
  - .14 Custom houses Bonded warehouses Excise offices
  - .15 Court houses Record offices
  - .16 Post offices, general and special
  - .17 Official residences Palaces of rulers
  - .18 Barracks Armories Police stations
- .19 Engin houses Fire alarm stations

See also 623, 61 Military buildings



725.2 **Business and commercial**

- .21 Stores, wholesale and retail
- .22 Mixt store, offis, and apartment bildings
- .23 Offis bildings: telegraf, insurance
- .24 Banks: safe deposit, savings
- .25 Exchanges      Boards of trade
- .26 Markets
- .27 Cattle markets      Stock yards
- .28 Abattoirs
- .29 Other business bildings

**.3 Transportation and storage**

- .31 Railway passenger stations
- .311      Small (country) stations
- .312      Large (city)      “
- .313      Union      “
- .314      Stations on 2 levels
- .315
- .316
- .317      Street-car stations
- .318      Elevated railway stations
- .319      Underground railway stations
- .32      Railway freight houses
- .33      Railway shops, roundhouses, car houses, tanks, stores
- .34      Dock bildings      Wharf boats and houses
- .35      Warehouses      Cold storage      Safe deposit storage
- .36      Elevators, grain
- .37
- .38      Garages      Livery stables
- For private stables and garages see 728.94
- .39      Other

**.4 Manufactories**

- .41      Textil factories or mills: wool, cotton, silk
- .42      Breweries      Malteries      Distilleries
- .43      Foundries      Machine shops      Iron and steel works
- .44      Woodworking mills      Furniture factories
- .45      Carriage and car factories
- .46      Paper mills
- .47      Mills for flour, meal, feed, etc.
- .48      Pottery, glass, terracotta, brick works
- .49      Other manufactories

- 725.5 Hospitals and asylums**      See also 725.6 Reformatories
- .51 Sick and wounded      Eye and ear      Incurables      Lying-in
  - .52 Insane
  - .53 Idiotic      Feeble-minded
  - .54 Blind      Def and dum
  - .55 Paupers      Almshouses
  - .56 Aged
  - .57 Children      Orphans
  - .58 Foundling
  - .59 Soldiers homes
  - .6 Prisons and reformatories**
  - .61 State prisons      Penitentiaries
  - .62 Jails      Cell houses
  - .63 Reformatories for adults      Houses of correction
  - .64 Reform schools
  - .65 Washingtonian homes      Inebriate asylums
  - .66
  - .7 Refreshment      Baths      Parks**
  - .71 Cafés      Restaurants
  - .72 Saloons
  - .73 Baths: warm, medicated, turkish, russian
  - .74 Swimming baths
  - .75 Buildings for watering places, spas, etc.
  - .76 Buildings for parks
  - .8 Recreation**
  - .81 Music halls
  - .82 Theaters      Opera houses
  - .83 Halls for lectures, readings, etc.
  - .84 Bowling alleys      Billiard saloons
  - .85 Gymnasiums      Turn halls
  - .86 Skating rinks      Bicycle rinks
  - .87 Boat houses
  - .88 Riding halls and schools
  - .89 Shooting galleries
  - .9 Other public bildings**
  - .91 Exhibition halls
  - .92 Temporary halls      Tabernacles      Wigwams
  - .93 Workingmen's clubs and institutes
  - .94

## 726 Ecclesiastic and religious

- .1 Temples
- .2 Mosques
- .3 Synagogs
- .4 Chapels      Sunday school bildings
- .5 Churches
- .6 Cathedrals
- .7 Monasteries      Convents      Abbeys
- .8 Mortuary: cemetery chapels, receiving vaults, tombs
- .9 Other: Y. M. C. A. etc.

## 727 Educational and scientific

- .1 Schools  
    Study and recitation rooms. Not including dormitory or boarding
- .2 Academies      Seminaries      Boarding schools
- .3 Colleges      Universities
- .4 Professional and technical schools: law, theology, etc.
- .5 Laboratories: physical, chemic      See 542.1      biologic, etc.  
    Zoologic and botanic gardens      See also 590.7 and 580.7
- .6 Museums      Herbariums      See 580.7
- .7 Art galleries      Studios
- .8 Libraries      See 022 Library bildings
- .9 Other: learned societies, etc.

## 728 Residences

- .1 Tenement houses
- .11 City homes of poor
- .12 Country      “
- .13 Cités ouvrières
- .2 Apartment houses      Flats      Family hotels
- .3 City houses      Mansions      Palaces
- .31 Between party walls      Stone
- .32      “      “      Brick
- .33      “      “      Partly wood
- .34 Semidetacht, including end houses in city blocks      Stone
- .35      “      “      “      Brick
- .36      “      “      “      Partly wood
- .37 Detacht      Stone
- .38      “      Brick
- .39      “      Partly wood
- .4 Club houses      Bildings for secret societies
- .5 Hotels      Inns
- .51 City hotels
- .52 Summer resorts
- .53 Country inns

- 728.6 **Village and country homes**
  - .61 Village dwellings; on small lots
  - .62 Stone
  - .63 Brick
  - .64 Concrete or stucco
  - .65 Part masonry, part wood
  - .66 All wood
  - .67 Farm houses
  - .68 Laborers cottages
- .7 **Seaside and mountain cottages**      Chalets
- .8 **Country seats**
  - .81 Castles
  - .82 Chateaux
  - .83 Manor houses
  - .84 Villas
- .9 **Outbuildings**
  - .91 Porters lodges
  - .92 Servants quarters
  - .93 Kitchens and laundries
  - .94 Stables      Carriage houses      Garages  
See also 725.38 Public garages and livery stables
  - .95 Barns      Granaries
  - .96 Dairies
  - .97 Ice houses
  - .98 Conservatories      Green houses      Graperies
  - .99 Other

## 729 **Architectural design and decoration**

For decorativ illumination see 745

- .1 **The elevation**
  - .11 Composition
  - .12 Distribution
  - .13 Proportion
  - .14 Light and shade
  - .15 Perspectiv effect
  - .16
  - .17
  - .18
  - .19

For projection of shadows and grafics of light and shadow see 515.63 and 515.7

- .2 **The plan**
  - .21 Elements required
  - .22 Distribution
  - .23 Proportion
  - .24
  - .25
  - .26
  - .27
  - .28
  - .29

### 729.3 Elementary forms

For construction of these forms see 721

- .31 Walls Moldings Cornises
- .32 Piers, columns, pilasters, pedestals and the orders Colonnades
- .33 Arches and arcades
- .34 Vaults and domes
- .35 Roofs Spires Dormers
- .36 Towers
- .37 Gables and pediments
- .38 Doors and windows Bays Oriels
- .39 Stairs and balustrades

See also 515.83 Stereotomy; 694.8 Stairbuilding

### .4 Painted decoration

See also 729.7 Mosaic

- .41 Vegetable forms
- .42 Animal forms
- .43 Grotesque forms
- .44 Conventional and geometric forms
- .45 Painted moldings
- .46 Painted friezes and panels
- .47 Painted columns and pilasters
- .48 Painted ceilings and vaults
- .49 Painted walls

### .5 Decoration in relief

For bas relief and figure carving see 730

- .51 Vegetable forms
- .52 Animal forms
- .53 Grotesque forms
- .54 Conventional and geometric forms
- .55 Carvd moldings
- .56 Carvd friezes and panels
- .57 Carvd columns and pilasters
- .58 Carvd ceilings and vaults
- .59 Other carvd ornament

### .6 Incrustation and veneering

- .61 Of external walls (in brick, stone, or marble, tiles, etc.)
- .62 Of interiors
- .63 Intarsia and inlay
- .64 Niellowork
- .65 Enamel decoration
- .66
- .67
- .68
- .69

**729.7 Mosaic**

- .71 Mosaic ceiling
- .72 Mosaic walls
- .73 Mosaic floors
- .74 Other mosaic designs
- .75
- .76
- .77
- .78
- .79

**.8 Stained glass design**

For technical processes see 666.1; for history see 748

- .81 Geometric windows
- .82 Medallion windows
- .83 Canopy windows
- .84 Figure windows
- .85 Mosaic windows
- .86 Other kinds of stained glass
- .87
- .88
- .89

**.9 Architectural accessories and fixt furniture**

- .91 Altars
- .92 Pulpits Tribunes
- .93 Dais Thrones
- .94 Buffets
- .95 Mantels Overmantels
- .96 Screens Rood screen Reredos
- .97
- .98
- .99

**730 Sculpture**

- 731 Materials and methods
- 732 Ancient
  - 733 Greek and Roman
  - 734 Medieval
  - 735 Modern
- 736 Carving Seals Dies Gems Cameos
- 737 Numismatics Coins Medals
- 738 Pottery Porcelain
- 739 Bronzes Brasses Bricabrac

- 740 **Drawing Decoration Design**
- 741 Freehand Crayon Sketching from nature  
Caricatures Cartoons  
Collections on any subject go with that subject with reference from 741
- 742 Perspectiv See also 515.6
- 743 Art anatomy Life school
- 744 Mathematic and scientific drawing See 515
- 745 Ornamental design: woven fabrics, carpets,  
wall paper, etc.
- 746 Art needlework Fancy work
- 747 Interior decoration Distemper Fresco  
Polychrome
- 748 Stained and iridescent glass For leading, see 698.5
- 749 Artistic furniture Fireplaces Frames, etc.

750 **Painting**

- 751 Materials and methods
- 752 Color See also 535.6 Optics
- 753 Epic Mythic Idealistic See 759.3 German school
- 754 Genre Still life See 759.4 French; and 759.9 Belgian
- 755 Religious, ecclesiastic See 759.5 Italian; and 759.6 Spanish
- 756 Historical, battle scenes
- 757 Portrait
- 758 Landscape and marine Animals Flowers
- 759 Various schools of painting *china*
- .1 American
  - .2 English
  - .3 German
  - .4 French
  - .5 Italian
  - .6 Spanish
  - .7 Slavic
  - .8 Scandinavian
  - .9 Other schools

**760 Engraving**

- 761 Wood
- 762 Copper and steel
- 763 Lithography
- 764 Chromolithography
- 765 Line and stipple
- 766 Mezzotint and aquatint
- 767 Etching Dry point
- 768 Bank note and machine
- 769 Collections of engravings

**770 Photography**

- 771 Materials Photographic chemistry
- 772 Silver processes: daguerreotype, talbotype  
Collodion process: ambrotype, etc. Dry  
plate processes
- 773 Gelatin and pigment processes: woodbury-  
type Carbon process: lambertype, auto-  
type, etc.
- 774 Gelatin and printer's ink processes: alber-  
type, heliotype, artotype, etc.
- 775 Photolithography, etc.
- 776 Photozincography, etc.
- 777 Photoengraving and photoelectrotyping
- 778 Special applications
- See 522.63 Astronomy. See 578 Microscopy
- 779 Collections of photographs



# 780 Music

- .1 Philosophy and esthetics of music
  - .2 Compendis
  - .3 Dictionaries
  - .4 Essays
  - .5 Periodicals
  - .6 Societies
  - .7 Education, conservatories
  - .8 Polygraphy, libraries
  - .9 History, divided by countries, like 930-999
- All heads include the music itself and everything about it: score, libretto, history, criticism, etc.

## 781 Theory of music

- .1 **Mathematic and physical**
- .2 **Elementary and general**
- .3 **Harmony**    **Thorbass**
- .4 **Counterpoint**
- .5 **Musical form**
- .6 **Composition and instrumentation**
- .7 **Oriental theories and forms**    **Russian music**
- .8 **Ancient Grecian theories, modes, and forms**
- .9

## 782 Dramatic music

- .1 **Grand opera**
- .2    **Epic**    **Wagnerian**    *stories*
- .3    **Other German grand opera**
- .4    **French grand opera**
- .5    **Italian grand opera**
- .6 **Comic and satiric**
- .7 **Opera bouffe**
- .8 **Operettas and cantatas**    See 783.4
- .9 **Pantomimes, masks, etc.**

## 783 Sacred music

See 245 Hymnology, sacréd poetry, for hymns alone; if with tunes they go in 783.9; 786.8 Organ; 246.7-8 Evangelistic use and Eucharistic music; 264.2 Public worship

- .1 **Organ and orchestral**    **Accompaniment**
- .2 **Cathedral servises: masses, vespers, etc.**
- .21    **Mass**    **Communion servises**
- .22    **Common of the mass: kyrie, gloria in excelsis, credo, benedictus, Agnus Dei**
- .23    **Proper of the season: offertory, sequence, gradual, tract**
- .24    **Choral servis: antiphonal, responsiv**
- .25    **Plain song**
- .26    **Litanies**
- .27    **Lenten and penitential: Good Friday, reproaches**
- .28    **Festival: Christmas, Easter, etc.**
- .29    **Processional**    **Recessional**
- .3 **Oratorio**    **Passion music**
- .4 **Anthem**    **Motet**    **Sacred cantata**  
Polyphonic school, Palestrina. 16th century
- .5 **Chant: Gregorian, Anglican**
- .6 **Chorale**    **Tune**    **Carol**
- .7 **Evangelistic: mission, revival**    **Sunday school**
- .8 **Choir: men and boys**    **Quartet**    **Chorus**
- .9 **Congregational singing**    **Psalmody**    **Hymnody**

- 784 Vocal music
- .1 Glee Madrigal Round Catch
  - .2 Aria Cavatina Recitative; e. g. in oratorio, mass, opera
  - .3 Ballad and song  
Romantic, idyllic, sentimental; e. g. modern German
  - .4 Popular ballads Volkslied; e. g. Irish, Scotch, etc.
  - .5 Festival; e. g. sangerbund, eisteddfod Competitiv
  - .6 College, society songs, and choruses
  - .7 Negro minstrelsy, plantation songs
  - .8 Collected songs
  - .81 Solos
  - .82 Duets
  - .83 Trios
  - .84 Quartets
  - .85 Other part songs
  - .86 Choruses
  - .87 Collections for male voices
  - .88 Collections for female voices
  - .89 Other special collections
  - .9 Vocal hygiene, culture, development, and methods Tonic  
sol-fa

785 **Orchestral music**

For dramatic orchestral music, see 782; sacred, 783.1

- .1 **Symphony**  
Three or more movements; e. g. adagio, andante, allegro, allegretto, scherzo finale, etc.
- .2 **Dramatic, illustrativ, descriptiv, program, imitativ**  
e. g. Mendelssohn's Midsummer night's dream
- .3 **Romantic, idyllic**
- .4
- .5 **Overture: e. g. Beethoven's Leonores**
- .6 **Concerto: orchestral with solo instrument**
- .7 **Chamber music**
- .8 **Suite**
- .9 **Arrangements, transcriptions, potpourris**

## 786 Piano and organ

- .1 **Piano History**
- .2 **Manufacture Tuning Temperament**
- .3 **Instruction**
- .4 **Piano music General collections**
  - For piano concerto, see 785.6
- .41 **Sonata Sonatina Rondo**
- .42 **Fantasia Arabesque**
- .43 **Nocturne Meditation Romantic Descriptiv**
  - Songs without words
- .44 **March and march form Polonaise Polka Mazurka**
- .45 **Dance form: national, classic, idealized**
- .46 **Modern dance music Society, festiv**
- .47 **Etudes Artistic** For études for instruction, see 786.3
- .48 **Variations, transcriptions**
- .49 **Arrangements**
  - Four hands and more; e. g. orchestral music arranged for piano
- .5 **Organ History**
- .6 **Bilding**
- .7 **Instruction**
- .8 **Organ music** See also 783 Sacred music
- .81 **Sonata**
- .82 **Fugue**
- .83 **Preludes**
- .84 **Interludes**
- .85 **Postludes**
- .86 **Offertories**
- .87 **Voluntaries Improvisations**
- .88 **Organ and piano**
- .89 **Organ, piano, and orchestra**
- .9 **Cabinet organ Melodeon**

## 787 String instruments

Including with each, history, manufacture, instruction, music, etc. Music for 2 instruments is put with the one most prominent in the composition

### Bowd

- .1 **Violin**
- .2 **Viola**
- .3 **Violoncello**
- .4 **Double bass Contra bass**
  - Plectral
- .5 **Harp**
- .6 **Guitar Lute Mandolin, etc.**
- .7 **Banjo**
- .8 **Zither**
- .9 **Other stringd instruments Harpsichord**

## Wind instruments

Including with each, history, manufacture, instruction, music, etc.

## Brass

- .1 Trumpet: slide and valv
- .2 Trombone
- .3 Cornet
- .4 Horns and other brass wind instruments
  - .41 French horn
  - .42 Saxhorn
  - .43 Saxophone
  - .44 Euphonium
  - .45 Ophicleide
  - .46 Key bugle
  - .47 Valv bugle
  - .48 Bass Tuba and contrabass tuba      Serpent
  - .49 Other

## Wood: flute group

- .5 Flute      Waldflute      Piccolo      Fife      Flageolet

## Wood: reed group

- .6 Clarinet      Bass clarinet      Bassethorn
- .7 Oboe      D'amore      Da caccia      Cor anglais
- .8 Bassoon      Double bassoon      Bombardon
- .9 Other reed wind instruments: bagpipe

## 789 Percussion and mechanical instruments

## Percussion

- .1 Drum
- .2 Cymbals
- .3 Triangle
- .4 Tambourine      Castanets      Bones
- .5 Bells: chimes, carillon
- .6 Other percussion instruments: xylofone

## Mechanical

- .7 Orchestrion
- .8 Music box
- .9 Other mechanical instruments

790 **Amusements** For ethics of amusements, see 175

791 **Public entertainment**  
Concert, panorama, circus, menagerie, summer resort, garden, rink, museum,  
fair, festival

792 **Theater Pantomime Opera**  
See also 782 Dramatic music

793 **Indoor amusements**  
Private theatricals, tableaux, charades, dancing

794 **Games of skill**  
*12 crossword puzzles*  
Chess, checkers, billiards, bowling, bagatel

795 **Games of chance**  
Cards, dice, backgammon, dominoes

796 **Outdoor sports**  
Children's sports, athletic sports, coasting, skating, cycling, quoits, archery,  
croquet, lawn tennis

797 **Boating and ball**  
Rowing, yachting, baseball, football, cricket, polo

798 **Horsemanship and racing**

799 **Fishing, hunting, target shooting**

*Notes: Look in the des. 2 subjects. part in part.*

# Literature

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The classification, of literature is by *language*, not country, except that North and South American are separated from other English. Canadian French goes with 840; Australian and Indian English with 820; South American Spanish with 860, etc. Numbers assigned to individual authors include only their *literary* works of that section

and complete works which can not be divided. Books on other subjects go with their proper subjects, unless a 'special library' attracts all the authors' works, lives, etc. An author writing in 2 periods has all his books put in the one where most of them belong.

## 800 Literature: general works

801 Philosophy Theories Literary esthetics

802 Compends, outlines

803 Dictionaries, cyclopedias

804 Essays, lectures, addresses

805 Periodicals, magazines, reviews

806 Societies: transactions, reports, etc.

807 Study and teaching of literature

808 Rhetoric Treatises Collections

Divided .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory, see also 784.9 Vocal culture .6 Letters, epistolografy .7 Satire, humor .8 Collections too general to go with any one language, e. g. a book of quotations from many languages

These heds, and the same under 809, include only works about poetry, etc. regardless of language

## 809 History of literature in general

Including general histories of books and knowledge; e. g. Hallam's *Literature of middle ages*

Divided like 808 .1 Poetry .2 Drama .3 Fiction, etc.

# 810 American literature Includes Canadian English

- .1 Philosophy
- .2 Compends
- .3 Dictionaries
- .4 Essays on American literature
- .5 Periodicals
- .6 Societies
- .7 Study and teaching
- .8 Collections
- .9 History of American literature

## 811 American poetry

- .02 Dramatic
- .03 Romantic and epic
- .04 Lyric, ballads
- .05 Didactic
- .06 Descriptive
- .07 Satiric and humorous
- .08 Collections
- .09 History of American poetry

### .1 Colonial 1607-1776

- .11 Sandys, George 1577-1644
- .12 Bradstreet, Anne 1612-72
- .13 Wigglesworth, Michael 1631-1705
- .14 Green, Joseph 1706-80
- .15 Livingston, William 1723-90
- .16 Ferguson, Elizabeth 1739-1801

### .2 Post-revolutionary 1776-1830

- .21 Trumbull, John 1750-1831
- .22 Dwight, Timothy 1752-1817
- .23 Barlow, Joel 1755-1812
- .24 Freneau, Philip 1752-1832
- .25 Alsop, Richard 1761-1841
- .26 Pierpont, John 1785-1866
- .27 Dana, Richard Henry 1787-1879
- .28 Sprague, Charles 1791-1875
- .29 Minor poets

### .3 Middle 19th century 1830-61

- .31 Halleck, Fitz-Greene 1790-1867
- .32 Poe, Edgar Allan 1809-49
- .33 Bryant, William Cullen 1794-1878
- .34 Longfellow, Henry Wadsworth 1807-82
- .35 Read, Thomas Buchanan 1822-72
- .36 Whittier, John Greenleaf 1807-92
- .37 Lowell, James Russell 1819-91
- .38 Whitman, Walt 1819-92
- .39

### .4 Later 19th century 1861-1900

- .41 Stoddard, Richard Henry 1825-1903
- .42 Hayne, Paul Hamilton 1831-86
- .43 Stedman, Edmund Clarence 1833-1908
- .44 Winter, William 1836-
- .45 Miller, Cincinnatus Hiner (Joaquin) 1841-
- .46 Taylor, Bayard 1825-78
- .47
- .48
- .49

### .5 Early 20th century 1901-

## 812 American drama

- |     |                                     |           |
|-----|-------------------------------------|-----------|
| .1  | <b>Colonial 1607-1776</b>           |           |
| .11 | Warren, Mercy                       | 1728-1814 |
| .12 | Godfrey, Thomas                     | 1736-63   |
| .13 |                                     |           |
| .2  | <b>Post-revolutionary 1776-1830</b> |           |
| .21 | Tyler, Royall                       | 1757-1826 |
| .22 | Dunlap, William                     | 1766-1839 |
| .23 | Hillhouse, James Abraham            | 1789-1841 |
| .24 | Ingersoll, Charles Jared            | 1782-1862 |
| .25 |                                     |           |
| .3  | <b>Middle 19th century 1830-61</b>  |           |
| .31 | Ritchie, Anna Cora Mowatt           | 1818-70   |
| .32 | Mathews, Cornelius                  | 1817-89   |
| .33 | Boker, George Henry                 | 1823-90   |
| .34 |                                     |           |
| .4  | <b>Later 19th century 1861-1900</b> |           |
| .41 |                                     |           |
| .5  | <b>Early 20th century 1901-</b>     |           |

## 813 American fiction

- |     |                                     |           |
|-----|-------------------------------------|-----------|
| .1  | <b>Colonial 1607-1776</b>           |           |
| .2  | <b>Post-revolutionary 1776-1830</b> |           |
| .21 | Brackenridge, Hugh Henry            | 1748-1816 |
| .22 | Rowson, Susanna                     | 1762-1824 |
| .23 | Brown, Charles Brockden             | 1771-1810 |
| .24 | <b>Cooper, James Fenimore</b>       | 1789-1851 |
| .25 | Ware, William                       | 1797-1852 |
| .26 | Neal, John                          | 1793-1876 |
| .27 |                                     |           |
| .28 |                                     |           |
| .29 |                                     |           |
| .3  | <b>Middle 19th century 1830-61</b>  |           |
| .31 | Thompson, Daniel Pierce             | 1795-1868 |
| .32 | Kennedy, John Pendleton             | 1795-1870 |
| .33 | <b>Hawthorne, Nathaniel</b>         | 1804-64   |
| .34 | Judd, Sylvester                     | 1813-53   |
| .35 | Simms, William Gilmore              | 1806-70   |
| .36 | Melville, Herman                    | 1819-91   |
| .37 | Stowe, Harriet Beecher              | 1812-96   |
| .38 |                                     |           |
| .39 |                                     |           |
| .4  | <b>Later 19th century 1861-1900</b> |           |
| .41 | Alcott, Louisa May                  | 1832-88   |
| .42 | Eggleston, Edward                   | 1837-1902 |
| .43 | Howells, William Dean               | 1837-     |
| .44 | Aldrich, Thomas Bailey              | 1836-1907 |
| .45 | Harte, Francis Bret                 | 1839-1902 |
| .46 | James, Henry                        | 1843-     |
| .47 | Hawthorne, Julian                   | 1846-     |
| .48 | Burnett, Frances Hodgson            | 1849-     |
| .49 | Minor novelists                     |           |
| .5  | <b>Early 20th century 1901-</b>     |           |



## 814 American essays

- .1 Colonial 1607-1776
- .2 Post-revolutionary 1776-1830
  - .21 Rush, Benjamin 1745-1813
  - .22 Webster, Noah 1758-1843
  - .23 Channing, William Ellery 1780-1842
- .3 Middle 19th century 1830-61
  - .31 Ossoli, Margaret Fuller 1810-50
  - .32 Giles, Henry 1809-82
  - .33 Tuckerman, Henry Theodore 1813-71
  - .34 Holland, Josiah Gilbert 1819-81
  - .35 Whipple, Edwin Percy 1819-86
  - .36 Emerson, Ralph Waldo 1803-82 See also 191.3
  - .37 Curtis, George William 1824-92
- .4 Later 19th century 1861-1900
  - .41 Burroughs, John 1837-
  - .42
  - .43
  - .44
- .5 Early 20th century 1901-

## 815 American oratory

- .1 Colonial 1607-1776
- .11
- .12
- .2 Post-revolutionary 1776-1830
  - .21 Hamilton, Alexander 1757-1804
  - .22 Ames, Fisher 1758-1808
  - .23 Wirt, William 1772-1834
  - .24 Randolph, John 1773-1833
  - .25 Clay, Henry 1777-1852
  - .26 Calhoun, John Caldwell 1782-1850
  - .27 Webster, Daniel 1782-1852
  - .28
  - .29
- .3 Middle 19th century 1830-61
  - .31 Everett, Edward 1794-1865
  - .32 Choate, Rufus 1799-1859
  - .33 Sumner, Charles 1811-74
  - .34 Phillips, Wendell 1811-84
  - .35 Chapin, Edwin Hubbell 1814-80
  - .36 Beecher, Henry Ward 1813-87
- .4 Later 19th century 1861-1900
  - .41
  - .42
  - .43
- .5 Early 20th century 1901-

## 816 American letters Subdivided by periods, like 811

## 817 American satire and humor

- |     |                                     |           |
|-----|-------------------------------------|-----------|
| .1  | <b>Colonial 1607-1776</b>           |           |
| .11 | Ward, Nathaniel                     | 1570-1653 |
| .12 | Alsop, George                       | 1638- ?   |
| .13 | Byles, Mather                       | 1706-88   |
| .14 | Hopkinson, Francis                  | 1737-91   |
| .15 | Peters, Samuel Andrew               | 1735-1826 |
| .2  | <b>Post-revolutionary 1776-1830</b> |           |
| .21 | Story, Isaac                        | 1774-1803 |
| .22 | Fessenden, Thomas Green             | 1771-1837 |
| .23 | Paulding, James Kirke               | 1779-1860 |
| .24 | <b>Irving, Washington</b>           | 1783-1859 |
| .25 | Verplanck, Gulian Crommelin         | 1786-1870 |
| .26 |                                     |           |
| .27 |                                     |           |
| .3  | <b>Middle 19th century 1830-61</b>  |           |
| .31 | Neal, Joseph Clay                   | 1807-47   |
| .32 | <b>Holmes, Oliver Wendell</b>       | 1809-94   |
| .33 | Shelton, Frederick William          | 1814-81   |
| .34 | Shillaber, B P (Mrs Partington)     | 1814-90   |
| .35 | Saxe, John Godfrey                  | 1816-87   |
| .36 | Cozzens, Frederick Swartout         | 1818-69   |
| .37 | Browne, C: F (Artemus Ward)         | 1834-67   |
| .38 | Haliburton, Thomas Chandler         | 1796-1865 |
| .39 | Minor satirists and humorists       |           |
| .4  | <b>Later 19th century 1861-1900</b> |           |
| .41 | Warner, Charles Dudley              | 1829-1900 |
| .42 | Locke, David Ross (P V Nasby)       | 1833-88   |
| .43 | Burdette, Robert J                  | 1844-     |
| .44 | Clemens, S: L (Mark Twain)          | 1835-1910 |
| .45 | Carleton, William                   | 1845-     |
| .46 | Shaw, Henry W (Josh Billings)       | 1818-85   |
| .47 |                                     |           |
| .5  | <b>Early 20th century 1901-</b>     |           |

## 818 American miscellany

- |     |                                     |           |
|-----|-------------------------------------|-----------|
| .3  | <b>Middle 19th century 1830-61</b>  |           |
| .31 | Thoreau, Henry David                | 1817-62   |
| .32 | Mitchell, Donald Grant (Ik Marvel)  | 1822-1908 |
| .4  | <b>Later 19th century 1861-1900</b> |           |
| .5  | <b>Early 20th century 1901-</b>     |           |

# 820 English literature

820.1 Philosophy .2 Compends .3 Dictionaries .4 Essays on English literature  
.5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

## 821 English poetry

.01 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic  
.06 Descriptive .07 Satiric and humorous .08 Collections .09 History of  
English poetry

### .1 Early English 1066-1400

.11	Layamon	1150-1207
.12	Ormin	1187-1237
.13	Robert of Gloucester	1245-1307
.14	Minot, Lawrence	1313-52
.15	Langland, William	1332-99
.16	Barbour, John	1316-95
.17	<b>Chaucer, Geoffrey</b>	1340-1400
.18	Gower, John	1325-1408
.19	Minor writers	

### .2 Pre-Elizabethan 1400-1558

.21	Lydgate, John	1369-1461
.22	Skelton, John	1460-1529
.23	Dunbar, William	1460-1520
.24	Douglas, Gavin	1474-1522
.25	Hawes, Stephen	1483-1509
.26	Lyndsay, Sir David	1490-1555
.27	Wyatt, Sir Thomas	1503-42
.28	Surrey, Henry Howard, earl of	1517-47
.29	Minor writers	

### .3 Elizabethan 1558-1625

.31	Spenser, Edmund	1553-99
.32	Sidney, Sir Philip	1554-86
.33	Daniel, Samuel	1562-1619
.34	Drayton, Michael	1563-1631
.35	Davies, John	1569-1626
.36	Drummond, William	1585-1649
.37	Fletcher, Giles and Phineas	1585-1650
.38	Herbert, George	1593-1632
.39	Minor writers	

### .4 Post-Elizabethan 1625-1702

.41	Suckling, Sir John	1609-42
.42	Crashaw, Richard	1616-50
.43	Herrick, Robert	1591-1674
.44	Waller, Edmund	1605-87
.45	Lovelace, Richard	1618-58
.46	Cowley, Abraham	1618-67
.47	<b>Milton, John</b>	1608-74
.48	<b>Dryden, John</b>	1631-1700
.49	Minor writers	

<b>821.5</b>	<b>Queen Anne</b>	<b>Early 18th century</b>	<b>1702-45</b>	
.51	Prior, Matthew		1664-1721	
.52	Parnell, Thomas		1679-1717	
<b>.53</b>	<b>Pope, Alexander</b>		1688-1744	See also 827.55
.54	Ramsay, Allan		1686-1758	
.55	Young, Edward		1684-1765	
.56	Thomson, James		1700-48	
.57	Collins, William		1721-59	
.58	Shenstone, William		1714-63	
.59	Minor writers			
<b>.6</b>	<b>Later 18th century</b>	<b>Pre-revolutionary</b>	<b>1745-1800</b>	
.61	Gray, Thomas		1716-71	
.62	Akenside, Mark		1721-70	
.63	Chatterton, Thomas		1752-70	
.64	Goldsmith, Oliver		1728-74	
	See also 823.64 and 824.66			
.65	Cowper, William		1731-1800	
.66	Macpherson, James		1738-96	
<b>.67</b>	<b>Burns, Robert</b>		1759-96	
.68	White, Henry Kirke		1785-1806	
.69	Minor writers			
<b>.7</b>	<b>Early 19th century</b>	<b>Post-revolutionary</b>	<b>1800-37</b>	
.71	Wordsworth, William		1770-1850	
.72	Coleridge, Samuel Taylor		1772-1834	
.73	Southey, Robert		1774-1843	
.74	Scott, Sir Walter		1771-1832	See also 823.73
.75	Moore, Thomas		1779-1852	
.76	Byron, George Gordon Noel, 6th lord		1788-1824	
.77	Shelley, Percy Bysshe		1792-1822	
.78	Keats, John		1795-1821	
.79	Minor writers			
<b>.8</b>	<b>Victorian period</b>		<b>1837-1900</b>	
.81	Tennyson, Alfred, 1st baron		1809-92	
.82	Browning, Elizabeth Barrett		1809-61	
.83	Browning, Robert		1812-89	
.84	Rossetti, Dante Gabriel		1828-82	
.85	Morris, William		1834-96	
.86	Swinburne, Algernon Charles		1837-1909	
.87	<i>Wilde. ~ 1900?</i>			
.88				
.89	Minor writers			
<b>.91</b>	<b>Early 20th century</b>	<b>1901-</b>		

## 822 English drama

- |     |   |                        |
|-----|---|------------------------|
| .1  | <b>Early English 1066-1400</b>                  |                        |
| .11 | Chester plays                                   |                        |
| .12 | Coventry plays                                  |                        |
| .13 | Townley plays                                   |                        |
| .2  | <b>Pre-Elizabethan</b>                          | <b>1400-1558</b>       |
| .21 | Heywood, John                                   | 1506-65                |
| .22 | Udall, Nicholas                                 | 1505-64                |
| .23 | Bale, John                                      | 1495-1563              |
| .3  | <b>Elizabethan</b>                              | <b>1558-1625</b>       |
| .31 | Greene, Robert                                  | 1561-92                |
| .32 | Marlowe, Christopher                            | 1564-93                |
| .33 | <b>Shakespeare, William</b>                     | 1564-1616              |
| .34 | <b>Jonson, Ben</b>                              | 1574-1637              |
| .35 | <b>Beaumont, Francis<br/>and Fletcher, John</b> | 1584-1616<br>1579-1625 |
| .36 | Webster, John                                   | 1582-1652              |
| .37 | Massinger, Philip                               | 1584-1640              |
| .38 | Ford, John                                      | 1586-1639              |
| .39 | Minor writers                                   |                        |
| .4  | <b>Post-Elizabethan 1625-1702</b>               |                        |
| .41 | Davenant, Sir William                           | 1605-68                |
| .42 | Etherege, Sir George                            | 1637-88                |
| .43 | Crowne, John                                    | 1644-99                |
| .44 | Wycherly, William                               | 1640-1715              |
| .45 | Otway, Thomas                                   | 1651-85                |
| .46 | <b>Congreve, William</b>                        | 1670-1729              |
| .47 | Vanbrugh, Sir John                              | 1666-1726              |
| .48 | Farquhar, George                                | 1678-1707              |
| .49 | Minor writers                                   |                        |
| .5  | <b>Queen Anne Early 18th century 1702-45</b>    |                        |
| .51 | Dennis, John                                    | 1657-1734              |
| .52 | Southerne, Thomas                               | 1660-1746              |
| .53 | Centlivre, Mrs Susannah (Freeman)               | 1668-1723              |
| .54 | Cibber, Colley                                  | 1671-1757              |
| .55 | Rowe, Nicholas                                  | 1674-1718              |
| .56 | Gay, John                                       | 1688-1732              |
| .57 | Lillo, George                                   | 1693-1739              |
| .58 |   |                        |
| .59 | Minor writers                                   |                        |
| .6  | <b>Later 18th century 1745-1800</b>             |                        |
| .61 | Garrick, David                                  | 1716-79                |
| .62 | Foote, Samuel                                   | 1721-77                |
| .63 | Colman, George, the elder                       | 1732-94                |
| .64 | Home, John                                      | 1724-1808              |
| .65 | Cumberland, Richard                             | 1732-1811              |
| .66 | <b>Sheridan, Richard Brinsley</b>               | 1751-1816              |
| .67 | Inchbald, Mrs Elizabeth (Simpson)               | 1753-1821              |
| .68 |   |                        |
| .69 | Minor writers                                   |                        |
| .7  | <b>Early 19th century 1800-1837</b>             |                        |
| .71 | Baillie, Joanna                                 | 1762-1851              |
| .72 | Knowles, James Sheridan                         | 1784-1862              |
| .8  | <b>Victorian period 1837-1900</b>               |                        |
| .91 | <b>Early 20th century 1901-</b>                 |                        |

See also 825.64

823	English fiction		
.1	Early English	1066-1400	
.2	Pre-Elizabethan	1400-1558	
	More's <i>Utopia</i>		
.3	Elizabethan	1558-1625	
	Lyly's <i>Euphues</i>		
.4	Post-Elizabethan	1625-1702	
.41	Harrington, James		1611-77
.42	Bunyan, John		1628-88
.43	Mackenzie, George		1636-91
.44	Behn, Aphra		1640-89
.5	Queen Anne	1702-45	
.51	DeFoe, Daniel		1661-1731
.52	Fielding, Henry		1707-54
.6	Later 18th century	1745-1800	
.61	Richardson, Samuel		1689-1761
.62	Sterne, Laurence		1713-68
.63	Smollett, Tobias George		1721-71
.64	Goldsmith, Oliver		1728-74
	See also 821.64 and 824.66		
.65	Mackenzie, Henry		1745-1831
.66	Arbly, Frances (Burney), madame d'		1752-1840
.67			
.68			
.69	Minor writers		
.7	Early 19th century	1800-37	
.71	Lewis, Matthew Gregory		1775-1818
.72	Edgeworth, Maria		1767-1849
.73	Scott, Sir Walter		1771-1832
			See also 821.74
.74	Austen, Jane		1775-1817
.75	Porter, Jane		1776-1850
.76	Peacock, Thomas Love		1785-1866
.77	Galt, John		1779-1839
.78	Marryat, Frederick		1792-1848
.79	Minor writers		
.8	Victorian period	1837-1900	
.81	Brontë, Charlotte		1816-55
.82	Thackeray, William Makepeace		1811-63
.83	Dickens, Charles		1812-70
.84	Lytton, Edward George Bulwer, 1st baron		1803-73
.85	Kingsley, Charles		1819-75
.86	Beaconsfield, Benjamin Disraeli, 1st earl of		1805-81
.87	Trollope, Anthony		1815-82
.88	Cross, Mary Ann (Evans) Lewes [George Eliot]		1819-80
.89	Minor writers		
.91	Early 20th century	1901-	

## 824 English essays

- .3 **Elizabethan** 1558-1625  
Francis Bacon 1561-1626
- .4 **Post-Elizabethan** 1625-1702  
John Locke 1632-1704
- .5 **Queen Anne** 1702-45
- .51 Shaftsbury, Anthony Ashley Cooper, 3d earl of 1671-1713
- .52 Addison, Joseph 1672-1719
- .53 Steele, Sir Richard 1671-1729
- .54 Budgell, Eustace 1686-1737
- .55
- .56
- .57
- .58
- .59
- .6 **Later 18th century** 1745-1800
- .61 Moore, Edward 1712-57
- .62 Kames, Henry Home, lord 1696-1782
- .63 Johnson, Samuel 1709-84
- .64 Hume, David 1711-76 See also 192.4
- .65 Hawkesworth, John 1715-73
- .66 Goldsmith, Oliver 1728-74  
See also 821.64 and 823.64
- .67 Gibbon, Edward 1737-94
- .68
- .69 Minor writers
- .7 **Early 19th century** 1800-37
- .71 Mackintosh, Sir James 1765-1832
- .72 Smith, Sydney 1771-1845
- .73 Jeffrey, Francis, lord 1773-1850
- .74 Brougham, Henry, 1st baron 1778-1868
- .75 Lamb, Charles 1775-1834
- .76 Hazlitt, William 1778-1830
- .77 Hunt, Leigh 1784-1859
- .78
- .79 Minor writers
- .8 **Victorian period** 1837-1900
- .81 De Quincey, Thomas 1785-1859
- .82 Carlyle, Thomas 1795-1881
- .83 Macaulay, Thomas Babington, 1st baron 1800-59
- .84 - Helps, Sir Arthur 1817-75
- .85 Arnold, Matthew 1822-88
- .86 Ruskin, John 1819-1900
- .87
- .88
- .89 Minor writers
- .91 **Early 20th century** 1901-

825	<b>English oratory</b>	For 'speakers' see 808.5
	Subdivided by periods like 821	
.6	<b>Later 18th century 1745-1800</b>	
.61	Chatham, William Pitt, 1st earl of	1708-78
.62	Burke, Edmund	1729-97
.63	Fox, Charles James	1749-1806
.64	Sheridan, Richard Brinsley	1751-1816
.65	Grattan, Henry	1750-1820
.66	Pitt, William	1759-1806

See also 822.66

826	<b>English letters</b>	
	Subdivided by periods like 821	
.2	<b>Pre-Elizabethan</b>	<b>1400-1558</b>
	Paston letters	
.5	<b>Queen Anne 1702-45</b>	
.51	Montagu, Lady Mary (Pierrepont) Wortley	1690-1762
.52	Chesterfield, Philip Dormer Stanhope, 4th earl of	1694-1773
.53		
.6	<b>Later 18th century 1745-1800</b>	
.61	Orford, Horace Walpole, 4th earl of	1717-97
.62	Montagu, Mrs Elizabeth (Robinson)	1720-1800

827	<b>English satire and humor</b>	
.2	<b>Pre-Elizabethan 1400-1558</b>	
.21	Barclay, Alexander	1475-1552
.3	<b>Elizabethan 1558-1625</b>	
.31	Gascoigne, George	1537-77
.32	Harington, Sir John	1561-1612
.33	Hall, Joseph	1574-1656
.34	Marston, John	1575-1634
.35	Donne, John	1573-1631
.36		
.37		
.38		
.39		
.4	<b>Post-Elizabethan 1625-1702</b>	
.41	Wither, George	1588-1667
.42	Butler, Samuel	1612-80
.43	Marvell, Andrew	1620-78
.44	D'Urfey, Thomas	1625-1723
.45	Oldham, John	1653-83
.46	Brown, Thomas	1663-1704
.47	King, William	1663-1712
.48	Garth, Sir Samuel	1665-1719
.49	Minor writers	



<b>827.5</b>	<b>Queen Anne 1702-45</b>	
.51	Ward, Edward	1667-1731
.52	Swift Jonathan	1667-1745
.53	Mandeville, Bernard de	1670-1733
.54	Arbuthnot, John	1675-1735
.55	Pope, Alexander	1688-1744
.56		See also 821.53
.57		
.58		
<b>.6</b>	<b>Later 18th century 1745-1800</b>	
.61	Churchill, Charles	1733-65
.62	Amory, Thomas	1691-1788
.63	Whitehead, Paul	1710-74
.64	Junius <i>pseud.</i>	1679-1772
.65	Wolcott, John [Peter Pindar]	1738-1819
.66		
.67		
.68		
<b>.7</b>	<b>Early 19th century 1800-37</b>	
.71	Gifford, William	1757-1826
.72	Hood, Thomas	1798-1845
.73		
.74		
.75		
.76		
<b>.8</b>	<b>Victorian 1837-1900</b>	
.81	Jerrold, Douglas	1803-57
.82		
.83		
.84		
.85		
.86		
<b>.91</b>	<b>Early 20th century 1901-</b>	

## 828 English miscellany

Anecdotes, ana, epigrams, quotations, etc. if illustrative of any special subject (e. g. biography, history, science, art), go with that subject. If general they go in 828; if limited to any period, they take the same divisions as 821. For riddles, see 398.6; Proverbs, see 398.9. The same rule applies to other languages in 838, 848, etc.

## 829 Anglo-Saxon literature

<b>.1</b>	<b>Poetry</b>
<b>.2</b>	<b>Cædmon</b>
<b>.3</b>	<b>Beowulf</b>
<b>.4</b>	<b>Cynewulf</b>
<b>.5</b>	<b>Homilies and religious</b>
<b>.6</b>	<b>Ælfric</b>
<b>.7</b>	<b>Alfred the Great</b>
<b>.8</b>	<b>Miscellaneous</b>
<b>.9</b>	<b>Historic and biographic</b>

# 830 German literature

830.1 Philosophy .2 Compendis .3 Dictionaries .4 Essays, lectures and addresses  
 on German literature .5 Periodicals .6 Societies .7 Study and teaching .8 Col-  
 lections .9 History

## 831 German poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic  
 .06 Descriptive .07 Satiric and humorous .09 History of German poetry

- .1 Before the Crusades —1150**
- .11 *Hildebrandslied*
- .12 Otfried
- .13 *Ludwigslied*
- .14 *Muspilli*
- .2 Middle high 1150-1300**
- .21 *Nibelungenlied*
- .22 *Gudrun*, and minor folk epics
- .23 Heinrich von Veldeke -1200 See also 839.3112
- .24 Wolfram von Eschenbach
- .25 Gottfried von Strassburg
- .26 Hartmann von Aue 1170-1220
- .27 Walther von der Vogelweide 1170-1230
- .28 Ulrich von Lichtenstein 1199-1276
- .29 Minor writers
- .3 Period of decline 1300-1517**
- .31 Horneck, Ottokar von
- .32 Hadamar von Laber
- .33 Hermann von Sachsenheim -1458
- .34 Büheler, Hans *Die sieben weisen meister* 1414-
- .35 Kaspar von der Röhn *Das heldenbuch*
- .36 *Theuerdank*
- .37 *Die Haimonskinder*
- .38 Mastersingers
- .39 Minor writers
- .4 Reformation; new high 1517-1625**
- .41 Agricola, Martin 1486-1556
- .42 Waldis, Burkard 1490-1558
- .43 Alberus, Erasmus 1500-53
- .44 Sachs, Hans 1494-1576
- .45 Ringwaldt, Bartholomäus 1530-99
- .46 Rollenhagen, Georg 1542-1609
- .47 Andrea, Johann Valentin 1586-1654
- .5 Period of imitation 1625-1750**
- The Silesian schools
- .51 Opitz von Boberfeld, Martin 1597-1639
- .52 Flemming, Paul 1609-40
- .53 Logau, Friedrich von 1604-55
- .54 Gerhardt, Paul 1607-76
- .55 Hofmannswaldau, Christian Hofmann von 1618-79
- .56 Zesen, Philipp von 1619-89
- .57 Brockes, Barthold Heinrich 1680-1747
- .58 Bodmer, Johann Jakob 1698-1783
- .59 Minor writers

831.6 **Classic period 1750-1830**

For Göthe and Schiller, see 832.6

.61	Gellert, Christian Fürchtegott	1715-69
.62	<b>Klopstock, Friedrich Gottlieb</b>	1724-1803
.63	Bürger, Gottfried August	1748-94
.64	<b>Herder, Johann Gottfried von</b>	1744-1803
.65	Voss, Johann Heinrich	1751-1826
.66	Körner, Karl Theodor	1791-1813
.67	Hölderlin, Johann Christian Friedrich	1770-1843
.68	Platen Hallermünde, August, graf von	1796-1835
.69	Minor writers	

.7 **Postclassic period 1830-56**

.71	Arndt, Ernst Moritz	1769-1860
.72	Eichendorff, Joseph, freiherr von	1788-1857
.73	Uhland, Johann Ludwig	1787-1862
.74	Rückert, Friedrich	1789-1866
.75	<b>Heine, Heinrich</b>	1799-1856
.76	Niemsch von Strehlenau, Nikolaus	1802-50
.77	Auersperg, Anton Alexander, graf von [Anastasius Grün]	1806-81
.78	Freiligrath, Ferdinand	1810-76
.79	Minor writers	

.8 **Later 19th century 1856-1900**

.81	Schefer, Leopold	1784-1862
.82	Kinkel, Johann Gottfried	1815-82
.83	Geibel, Emanuel	1815-84
.84	Bodenstedt, Friedrich Martin	1819-92
.85		
.86		
.87		
.88		
.89	Minor writers	

.91 **Early 20th century 1901-**

832 **German drama**

.5 **Period of imitation 1625-1750**

.51	Gryphius, Andreas	1616-64
.52	Lohenstein, Daniel Casper	1635-83
.53	Weise, Christian	1642-1708
.54	Gottsched, Johann Christoph	1700-76
.55	Gottsched, Luise Adelgunde Victorie (Culmus)	1713-62

.6 **Classic period 1750-1830**

.61	Lessing, Gottlob Ephraim	1729-81
.62	Göthe, Johann Wolfgang von	1749-1832
.63	Schiller, Johann Christoph Friedrich	1759-1805
.64	Klinger, Friedrich Maximilian	1753-1831
.65	Iffland, August Wilhelm	1759-1814
.66	Kotzebue, August Friedrich Ferdinand von	1761-1819
.67	Werner, Friedrich Ludwig Zacharias	1768-1823
.68	Kleist, Heinrich Bernt Wilhelm von	1777-1811
.69	Minor writers	

- 832.7 **Postclassic period 1830-56**
- |     |   |           |
|-----|---|-----------|
| .71 | Grabbe, Christian Dietrich                                    | 1801-36   |
| .72 | Griepenkerl, Wolfgang Robert                                  | 1810-36   |
| .73 | Grillparzer, Franz  | 1791-1872 |
| .74 | Birch-Pfeiffer, Charlotte                                     | 1800-68   |
| .75 | Münch-Bellinghausen, Eligius Franz Joseph<br>[Friedrich Halm] | 1806-1866 |
| .76 | Laube, Heinrich   | 1806-84   |
| .77 | Hebbel, Friedrich   | 1815-63   |
| .78 | Gutzkow, Karl Ferdinand                                       | 1811-78   |
| .79 | Minor writers   |           |
- .8 **Later 19th century 1856-1900**
- |     |                            |         |
|-----|----------------------------|---------|
| .81 | Benedix, Julius Roderich   | 1811-73 |
| .82 | Mosenthal, Salomon Hermann | 1821-77 |
| .83 | Brachvogel, Albert Emil    | 1824-78 |
| .84 | Gottschall, Karl Rudolph   | 1823-   |
| .85 | Lindau, Paul               | 1839-   |
| .89 | Minor writers              |         |
- .91 **Early 20th century 1901-**
- 833 **German fiction**
- .5 **Period of imitation 1625-1750**
- |     |  |         |
|-----|--|---------|
| .51 | Buchholtz, Andrew Heinrich                 | 1607-71 |
| .52 | Grimmelshausen, Hans Jakob Christoffel von | 1625-76 |
| .53 | Anselm, Heinrich                           | 1653-97 |
| .54 | <i>Robinsonaden</i>                        |         |
| .55 | <i>Der Neue Amadis</i>                     |         |
- .6 **Classic period 1750-1830**
- |     |                                     |           |
|-----|-------------------------------------|-----------|
| .61 | Wieland, Christoph Martin           | 1733-1813 |
| .62 | Richter, Jean Paul Friedrich        | 1763-1825 |
| .63 | Hardenberg, Friedrich von [Novalis] | 1772-1801 |
| .64 | Hoffmann, Ernst Theodor Wilhelm     | 1776-1822 |
| .65 | La Motte Fouqué, Friedrich H; C;    | 1777-1843 |
| .66 | Arnim, Ludwig Achim von             | 1781-1831 |
| .67 | Hauff, Wilhelm                      | 1802-27   |
| .68 | Chamisso, Adelbert von              | 1781-1838 |
| .69 | Minor writers                       |           |
- .7 **Postclassic period 1830-56**
- |     |                                   |           |
|-----|-----------------------------------|-----------|
| .71 | Zschokke, Johann Heinrich Daniel  | 1771-1848 |
| .72 | Brentano, Clemens                 | 1778-1842 |
| .73 | Tieck, Ludwig                     | 1773-1853 |
| .74 | Postl, Karl [Charles Sealsfield]  | 1793-1864 |
| .75 | Häring, Wilhelm [Wilibald Alexis] | 1798-1871 |
| .76 | Hahn-Hahn, Ida, gräfin von        | 1805-80   |
| .77 | Gerstäcker, Friedrich             | 1816-72   |
| .78 | Hackländer, Friedrich Wilhelm     | 1816-77   |
| .79 | Minor writers                     |           |
- .8 **Later 19th century 1856-1900**
- |     |                             |         |
|-----|-----------------------------|---------|
| .81 | Auerbach, Berthold          | 1815-82 |
| .82 | Freytag, Gustav             | 1816-95 |
| .83 | Scheffel, Joseph Viktor von | 1826-96 |
| .84 | Spielhagen, Friedrich       | 1829-   |
| .85 | Heyse, Paul Johann Ludwig   | 1830-   |
| .86 | Ebers, Georg                | 1837-98 |
| .89 | Minor writers               |         |
- .91 **Early 20th century 1901-**

- 834 German essays      Subdivided by periods like 831  
 835 German oratory      "      "      "  
 836 German letters      "      "      "  
 837 German satire and humor

- .2 Middle high: minnesingers      1150-1300  
 .21 [Stricker, Der]      *Der Pfaffe Amis und Beispiele*  
 .22 *Salomon und Morolf*  
 .3 Period of decline      1300-1517  
 .31 *Reineke Vos*      See also 839.371  
 .32 Brant, Sebastian      1458-1521  
 .4 Reformation: new high      1517-1625  
 .41 Murner, Thomas [Tyll Eulenspiegel]      1475-1537  
 .42 Fischart, Johann      1550-89  
 .5 Period of imitation      1625-1750  
 .51 Moscherosch, Johann Michael      1601-69  
 .52 Rachel, Joachim      1618-69  
 .53 Wernicke, Christian      1660-1720  
 .54 Liscow, Christian Ludwig      1701-60  
 .6 Classic period      1750-1830  
 .61 Rabener, Gottlieb Wilhelm      1714-71  
 .62 Blumauer, Aloys      1755-98

838 German miscellany

See 828, note

839 Minor Teutonic literatures

Subdivided by form, poetry, drama, etc. like 830

- .1 Low German  
 .2 Frisian      Old Saxon  
 .3 Dutch literature      Flemish  
 .31 Dutch poetry  
 .311 Middle ages      1200-1450  
     1 Jacob van Maerlant 1235-1291      (2 Heinrije van Veldeke 1200, see  
     831.23)      3 Jan van Brabant 1250-1294      4 Melis Stoke 1310      5 Dirck  
     Potter 1428  
 .312 Chambers of rhetoric      1450-1600  
     1 Antonius de Rovere 1482      2 Anna Bijns 1500      3 Matthijs de Caste-  
     lein 1488-1548      4 Cornelis Everaert 1550      5 Jan Baptist Houwaert  
     1533-1599      6 Dirk Volkerszoon Coornhert 1522-1590      7 Philipp  
     Marnix 1538-1598      8 Cornelis van Ghistele 1600      9 Minor writers  
 .313 Period of the Republic      1600-1700  
     1 Jacob Cats, 1577-1660      2 Joost van der Vondel 1587-1679      3 Marie  
     Tesselschade Visscher 1594-1649      4 Constantijn Huygens 1596-1687  
     5 Reyer Anslø 1626-1669      6 Geraert Brandt 1626-1685      7 Jan  
     Antoniszoon van der Goes (Antonides) 1647-1684      9 Minor writers  
 .314 Poetic societies      1700-1800  
     1 Lucas Rotgans 1654-1710      2 Hubert Corneliszoon Poot 1689-1733  
     3 Arnold Hoogvliet 1687-1763      4 Sybrand Feitama 1694-1758  
     5 Willem van Haren 1710-1768      6 Jacob Bellamy 1757-1786  
     7 Hieronymus van Alphen 1746-1803      9 Minor writers  
 .315 Modern period      1800-  
     1 Willem Bilderdijk 1756-1831      2 Jan Frederik Helmers 1767-1813  
     3 Cornelis Loots 1765-1834      4 Hendrik Tollens 1780-1856      5 Isaac  
     da Costa 1798-1860      6 Jan Jacob Lodewijk ten Kate 1819  
     9 Minor writers

- 839.32 Dutch drama
- .323 Period of the Republic 1600-1700  
 1 Gerbrand Adriaenszoon Bredero 1585-1618 2 Corneliszoon Hooff  
 1581-1647 3 Samuel Costa 1580-1650 4 Jan Vos 1620-1667  
 5 Guillelmus Ogier 1619-1689 6 Joachim Oudaan 1628-1692 9 Minor  
 writers
- .324 Poetic societies 1700-1800  
 1 Pieter Langendijk 1683-1756 2 Andries Pels 3 Balthasar Huyde-  
 coper 1695-1778 4 Onno Zwier van Haren 1713-1779 5 Jan Nomz  
 1738-1803 9 Minor writers
- .325 Modern period 1800-  
 1 Samuel Iperuszoon Wiselius 1769-1845 2 Helvetius van den Bergh  
 1795-1865 3 Hendrik Jan Schimmel 1825-1906
- .33 Dutch fiction
- .334 Poetic societies 1700-1800  
 1 Elisabeth Bekker Wolff 1738-1804 2 Agatha Deken 1741-1804  
 3 Rhijnvis Feith 1753-1824
- .335 Modern period 1800-  
 1 Adriaan Loosjes 1761-1818 2 Jacob Vosmaer 1783-1834 3 Jan  
 Frederik Oltmans 1800-1854 4 Jacob van Lennep 1802-1868  
 5 Hendrik Conscience 1812-1883 6 Anna Louisa Geertruida Bosboom-  
 Toussaint 1812-1886
- .34 Dutch essays
- .344 Poetic societies 1700-1800  
 Justus van Effen 1684-1735
- .345 Modern period 1800-  
 1 Johannes Henricus van der Palm 1763-1840 2 Reinier Cornelis  
 Balkhuizen van den Brink 1810-1865 3 Everhardus Johannes Potgieter  
 1808-1875 4 Nicolaas Beets 1814-1903 5 Coenraad Busken Huet  
 1826-1886
- .37 Dutch satire and humor
- .371 Middle ages 1200-1450  
 Reinaert (van den vos Reinaerde) see 837.31
- .374 Poetic societies 1700-1800  
 Arend Simonszoon Fokke 1755-1812
- .38 Dutch miscellany  
 The subdivisions of 8 show the leading writers in other branches of knowledge  
 In classification, books are placed with their subjects, theology, history, etc.
- .381 Middle ages 1200-1450  
 Jan van Boendale (Jan de Clerc) *Chronicles*, 1280-1365
- .384 Poetic societies 1700-1800  
 Simon Stijl, *History*, 1731-1804; Jan Wagenaar, *History*, 1709-1773
- .4 Platt Deutsch
- .5 Scandinavian
- .6 Old Norse Icelandic Faroese
- .7 Swedish literature
- .71 Swedish poetry
- .711 Middle ages 1200-1520  
 1 Nicolaus Hermanni 1391 2 Bishop Tomas 1443 3 Ericus Olai  
 1486 4 Ballads (Folkvisor)
- .712 Reformation 1520-1640  
 1 Olaus Petri 1496-1552 2 Laurentius Petri 1499-1573
- .713 Age of Stjernhjelm 1640-1740  
 1 Georg Stjernhjelm 1598-1672 2 Lars Johansson (Lucidor) 1640-1694  
 3 Haquin Spegel 1645-1714 4 Israel Holmström 1660-1708 5 Gunno  
 Eurelius Dahlstjerna 1661-1709 6 Johan Runius 1679-1713 7 Jacob  
 Frese 1691-1729 8 Samuel von Triewald 1688-1743 9 Minor writers
- .714 Age of Dalin 1740-1780  
 1 Olof Carelius 1758 2 Olof von Dalin 1708-1763 3 Hedvig Charlotta  
 Nordenflycht 1718-1763 4 Anders Odel 1718-1773 5 Gustaf Filip  
 Creutz 1729-1785 6 Gustaf Fredrik Gyllenborg 1731-1808 7 Olof  
 Bergklint 1733-1805 9 Minor writers
- .715 Age of Gustavus 1780-1800  
 1 Karl Mikael Bellman 1740-1795 2 Johan Henrik Kellgren 1751-1795  
 3 Bengt Lidner 1757-1793 4 Johan Gabriel Oxenstjerna 1750-1818  
 5 Tomas Thorild 1759-1808 6 Anna Maria Lenngren 1754-1817  
 7 Karl Gustaf af Leopold 1756-1829 8 Frans Mikael Frazén 1772-1847  
 9 Minor writers

- Modern period** 1800-  
 1 Per Henrik Ling 1776-1839 2 Johan Olof Wallin 1779-1839 3 Esaias Tegnér 1782-1846 4 Erik Johan Stagnelius 1793-1823 5 Per Daniel Amadeus Atterbom 1790-1855 6 Karl Jonas Ludwig Almqvist 1793-1866 7 Johan Ludwig Runeberg 1804-1877 8 Karl Vilhelm Böttiger 1807-1879 9 Minor writers
- .72 **Swedish drama**
- .722 **Reformation** 1520-1640  
 1 Johan Messenius 1579-1637 2 Magnus Olai Asteropherus -1647  
 3 Andreas Johannis Prytz 1590-1655
- .723 **Age of Stjernhjelm** 1640-1740  
 Isak Börk -1701
- .725 **Age of Gustavus** 1780-1800  
 1 Karl Israel Hallman 1732-1800 2 Gustaf 3 (king) 1746-1792  
 3 Olof Kexél 1748-1796 4 Karl Ewallsson 1756-1806
- .726 **Modern period** 1800-  
 1 Johan Börjesson 1790-1866 2 Bernhard von Beskow 1796-1868  
 3 August Teodor Blanche 1811-1868 4 Johan Kristofer Jolin 1818-1884  
 5 Frans Hedberg 1828-1908 6 Per Johan Edvard Bäckström 1841-86
- .73 **Swedish fiction**
- .734 **Age of Dalin** 1740-1780  
 1 Jakob Henrik Mörk 1714-1763 2 Jakob Vallenberg 1746-1778
- .736 **Modern period** 1800-  
 1 Sofia Margareta von Knorring 1797-1848 2 Magnus Jakob Crusenstolpe 1795-1865  
 3 Fredrika Bremer 1801-1865 4 Karl Anton Wetterbergh (Onkel Adam) 1804-89  
 5 Emilie Flygare Carlén 1807-1892 6 Zakris Topelius 1818-1898 7 Viktor Rydberg 1829-1895  
 9 Minor writers
- .74 **Swedish essays**
- .746 **Modern period** 1800-  
 1 Benjamin Karl Henrik Högjer 1767-1812 2 Lorenzo Hammarsköld 1785-1827  
 3 Bernhard Elis Malmström 1816-1865 4 Karl Julius Lénström 1811-93  
 5 Gustaf Håkan Jordan Ljunggren 1823-1905 6 Karl Rupert Nyblom 1832-
- .77 **Satire and humor**
- .776 **Modern period** 1800-  
 1 Johan Anders Wadman 1777-1837 2 Erik Sjöberg (Vitalis) 1794-1828  
 3 Kristian Erik Fahlcrantz 1790-1866 4 Vilhelm August Detlof von Braun 1813-1860  
 5 Gunnar Wennerberg 1817-
- .78 **Swedish miscellany**  
 The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books are placed with their subjects, Theology, History, etc.
- .781 **Middle ages** 1200-1520  
 Canon Mattias, *Bible translation*, -1350; Peder Månsson, *Encyclopaedia*, -1534
- .782 **Reformation** 1520-1640  
 1 Peder Andersson Svart, *History*, -1562 2 Erik Göransson Tegel, *History*, 1580-1636  
 3 Ægidius Girs, *History*, 1580-1639 4 Gustavus Adolphus (king), *History*, 1594-1632
- .783 **Age of Stjernhjelm** 1640-1740  
 1 Olof Rudbeck, *Medicin*, 1630-1702 2 Urban Hjärne 1641-1724  
 3 Johan Peringskjöld, *History*, 1654-1720 4 Anders Rydelius, *Philosophy* 1671-1738  
 5 Anders Celsius, *Astronomy*, 1701-1744 6 Emanuel Svedenborg, *Theology*, 1688-1772
- .784 **Age of Dalin** 1740-1780  
 1 Karl Gustaf Tessin, *History*, 1695-1770 2 Karl von Linné, *Botany*, 1707-1778  
 3 Johan Ihre, *Philology*, 1707-1780 4 Sven Lagerbring, *History*, 1707-1787  
 5 Anders Johan von Höpken, *History*, 1712-1789 6 Olof Celsius, *History*, 1716-1794  
 7 Anders af Botin, *History*, 1724-1790  
 8 Torbern Olof Bergman, *Chemistry*, 1735-1784 Karl Vilhelm Scheele, *Chemistry*, 1742-1786
- .786 **Modern period** 1800-  
 1 Erik Gustaf Geijer, *History*, 1783-1847 2 Anders Magnus Strinnholm *History*, 1786-1862  
 3 Anders Fryxell, *History*, 1795-1881 4 Frederik Ferdinand Carlsson, *History*, 1811-1887

- .81 Danish and Norwegian poetry
- .811 Middle ages 1100-1500  
1 Anders Sunesen 2 Ballads (Kjæmpeviser)
- .812 Reformation 1500-1560  
Hans Tavsén 1494-1561
- .813 Learned period 1560-1700  
1 Anders Arrebo 1587-1637 2 Anders Bording 1619-1677 3 Peder Syv 1631-1702 4 Thomas Kingo 1634-1703 5 Peder Dass 1647-1708 6 Dorte Engelbrektsdatter 1635-1716 7 Søren Terkelsen 1661 8 Jacob Vorm 1642-1693
- .814 Age of Holberg 1700-1750  
1 Jørgen Sorterup 1662-1723 2 Tøger Reenberg 1656-1742 3 Kristian Falster 1690-1752 4 Hans Adolph Brorson 1694-1764 5 Ambrosius Stub 1705-1758 6 Kristian Frederik Wadskjær 1712-1779
- .815 Period of enlightenment 1750-1800  
1 Kristian Braunmann Tullin 1728-1765 2 Johannes Ewald 1743-1781 3 Johan Herman Vessel 1742-1785 4 Edvard Storm 1749-1794 5 Kristen Henriksen Pram 1756-1821 6 Jens Baggesen 1764-1826 7 Knud Lyne Rahbek 1760-1830 8 Malte Konrad Bruun 1775-1826 9 Minor writers
- .816 Modern period 1800-  
1 Adam Gottlob Oehlenschläger 1779-1850 2 Bernhard Severin Ingemann 1789-1862 3 Nicolai Frederik Severin Grundtvig 1783-1872 4 Johannes Carsten Hauch 1790-1871 5 Henrik Wergeland 1808-1845 6 Ludvig Bødtcher 1793-1874 7 Frederik Paludan-Müller 1809-1876 8 Carl Ploug 1813-1894 9 Minor writers
- .82 Danish and Norwegian drama
- .823 Learned period 1560-1700  
1 Hieronimus Justesen Rauch 1539-1607 2 Hans Kristensen Sthen 1544-1603 3 Peder Jensen Hegelund 1542-1614 4 Hans Thomsen Stege 1628 5 Jens Lönberg 1663-1700
- .824 Age of Holberg 1700-1750  
1 Ludvig Holberg 1684-1754
- .825 Period of enlightenment 1750-1800  
1 Charlotte Dorothea Biehl 1731-1788 2 Johan Nordal Bruun 1745-1816 3 Ole Johan Samsøe 1759-1796 4 Enevold Falsen 1755-1808 5 Thomas Thaarup 1749-1821 6 Kristian Levin Sander 1756-1819 7 Olaf Kristian Olufsen 1764-1827 8 Peter Andreas Heiberg 1758-1841 9 Minor writers
- .826 Modern period 1800-  
1 Casper Johannes Boye 1791-1853 2 Johan Ludvig Heiberg 1791-1860 3 Henrik Hertz 1798-1870 4 Thomas Overskou 1798-1873 5 Christian Knud Frederik Molbech 1821-1888 6 Henrik Ibsen 1828-1906
- .83 Danish and Norwegian fiction
- .836 Modern period 1800-  
1 Thomasine Christine Gyllembourg-Ehrensverd 1773-1856 2 Steen Steensen Blicher 1782-1848 3 Christian Winther 1796-1876 4 Hans Christian Andersen 1805-1875 5 Meyer Aaron Goldschmidt 1819-1887 6 Holger Drachmann 1846-1908 7 Bjørnstjerne Bjørnson 1832-1910
- .84 Danish and Norwegian essays
- .845 Period of enlightenment 1750-1800  
Rasmus Nyerup 1759-1829
- .846 Modern period 1800-  
1 Niels Mathias Petersen 1781-1862 2 Søren Aaby Kierkegaard 1813-1855 3 Rudolph Keyser 1803-1864 4 Peter Andreas Munch 1810-1863 5 Johan Sebastian Cammermeyer Welhaven 1807-1873 6 Georg Morris Cohen Brandes 1842-
- .87 Danish and Norwegian satire and humor
- .875 Period of enlightenment 1750-1800  
1 Peder Magnus Trojel 1743-1796 2 Peder Kofored Trojel 1754-1784 3 Thomas Kristoffer Bruun 1750-1834



## Danish and Norwegian miscellany

The subdivisions of 8 show the leading writers in other branches of knowledge.  
In classification, books are placed with their subjects, theology, history, etc.

- .881 **Middle ages** 1100-1500  
1 Saxo (Longus) Grammaticus, *History*, -1208 2 Svend Aagesen, *History*
- .882 **Reformation** 1500-1560  
1 Kristiern Pedersen (Father of Danish literature) 1480-1554 2 Povel  
Eliesen, *Sermons*, 1480- 3 Hans Mikkelsen, *Bible translation*, -1532  
4 Peder Plade (Palladius) 1503-1560 5 Henrik Smith, *Medicin*, -1563
- .883 **Learned period** 1560-1700  
**History:** Hans Svaning 1508-1584 Anders Sørensen Vedel 1542-1616  
Peder Klausen 1545-1614 Arild Hvitfeld 1549-1609 Klaus Lyskander  
1558-1623 Ole Worm 1588-1654 Peder Resen 1625-1688  
**Theology:** Niels Hemmingsen 1513-1600 Holger Rosenkranz 1574-  
1642 Jesper Brochmand 1585-1652  
**Science:** Tyge Brahe, *Astronomy*, 1546-1601 Kaspar Bartholin,  
*Medicin*, 1585-1629 Thomas Bartholin, *Anatomy*, 1616-1680 Ole  
Borch, *Medicin*, 1626-1690 Niels Stensen, *Anatomy*, 1638-1686 Ole  
Römer, *Astronomy*, 1644-1710
- .884 **Age of Holberg** 1700-1750  
1 Erik Pontoppidan, *History*, 1698-1764 2 Jacob Langebek, *History*,  
1710-1775 3 Frederik Kristian Eilschov, , 1725-1750  
4 Gerhard Schöning, *History*, 1722-1780 5 Peder Frederik Suhm,  
*History*, 1728-1798

## Gothic

# 840 French literature

840.1 Philosophy    2 Compendis    3 Dictionaries    4 Essays, lectures, and addresses on French literature    5 Periodicals    6 Societies    7 Study and teaching  
8 Collections    9 History

## 841 French poetry

.02 Dramatic    .03 Romantic and epic    .04 Lyric, ballads    .05 Didactic  
.06 Descriptive    .07 Satiric and humorous    .09 History of French poetry

.1	<b>Early French</b>	<b>842-1400</b>	
.11	Chanson de Roland	<i>Chanson de geste</i>	
.12	Wace, Robert		
.13	Marie de France		
.14	Chrestien de Troyes		-1191
.15	Quesnes de Bethune		-1228
.16	Thibaut 4, comte de Champagne		1201-53
.17	Rutebeuf		1230-
.18	<b>Roman de la rose</b>		
	Guillaume de Loris, 1195-1260	Jean de Meung, 1280-1320	
.19	Minor poets		
.2	<b>Transition period</b>	<b>1400-1500</b>	
.21	Chartier, Alain		1386-1458
.22	Orléans, Charles duc d'		1391-1465
.23	Coquillart, Guillaume		1421-1510
.24	Baude, Henri		1430-95
.25	Villon, François		1431-85
.26			
.27			
.28			
.29	Minor poets		
.3	<b>Renaissance</b>	<b>1500-1600</b>	
.31	Daurat, Jean		1510-88
.32	Du Bellay, Joachim		1524-60
.33	Belleau, Remy		1528-77
.34	Ronsard, Pierre de		1524-85
.35	Thiard, Pontus de		1521-1605
.36	Baif, Jean Antonie de		1532-89
.37	Saluste du Bartas, Guillaume de		1544-90
.38	Desportes, Philippe		1546-1606
.39	Minor poets		
.4	<b>Classic period</b>	<b>1600-1715</b>	
.41	Malherbe, François de		1555-1628
.42	Maynard, François		1582-1646
.43	Racan, Honorat de Bueil, marquis de		1589-1670
.44	Chapelain, Jean		1595-1674
.45	<b>La Fontaine, Jean de</b>		1621-95
.46	Deshoulières, Antoinette (du Ligier de la Garde), Madame		1637-94
.47	Chaulieu, Guillaume Amfrye de		1639-1720
.48			
.49	Minor poets		

<b>841.5</b>	<b>18th century</b>	<b>1715-89</b>	
.51	Rousseau, Jean Baptiste		1670-1741
.52	Racine, Louis		1692-1763
.53	Pompignan, Jean Jacques de Franc, marquis de		1709-84
.54	Delille, Jacques		1738-1813
.55	Roucher, Jean Antoine		1745-94
.56	Chénier, André Marie de		1762-94
.57	Parny, Evariste Désiré Desforges, vicomte de		1753-1814

.58  
.59 Minor poets

**.6 Revolution and empire 1789-1815**

.61	Lebrun, Ponce Denis Écouchard		1729-1807
.62	Fontanes, Louis, marquis de		1757-1821
.63	Parseval Grandmaison, François Auguste		1759-1834
.64	Luce de Lancival, Jean Charles Julien		1764-1810
.65	Désaugiers, Marc Antoine Madeleine		1772-1827
.66	Campenon, François Nicolas Vincent		1772-1843
.67	Millevoye, Charles Hubert		1782-1816

.68  
.69 Minor poets

**.7 Constitutional monarchy 1815-48**

.71	Béranger, Pierre Jean de		1780-1857
.72	Delavigne, Jean François Casimir		1793-1843 See 842.72
.73	Deschamps, Émile		1791-1871
.74	Lamartine, Alphonse Marie Louis de Prat de		1792-1869
.75	Reboul, Jean		1796-1864
.76	Vigny, Alfred Victor, comte de		1799-1863 See 842.75
.77	Musset, Louis Charles Alfred de		1810-57 See 842.76
.78	Hugo, Victor Marie, comte		1802-85

See also 842.78 and 843.78

.79 Minor poets

**.8 Later 19th century 1848-1900**

.81	Laprade, Pierre Marin Victor Richard de		1812-83
.82	Dupont, Pierre		1821-70
.83	Banville, Théodore Faullain de		1820-91
.84	Sully-Prudhomme, René François Armand		1839-1907
.85	Coppée, Francis Édouard Joachim		1842-1903 See 842.88
.86	Deroulède, Paul		1846-

.87  
.88  
.89 Minor poets

**.91 Early 20th century 1901-**

**842 French drama**

**.1 Early French 842-1400**

.11	Mysteries and miracles		
.12	Adam de la Halle		1240-86
.13	Bodel, Jean		

.14  
.15  
.16  
.17  
.18  
.19 Minor dramatists

842.2	<b>Transition period</b>	1400-1500	
.21	Gresban, Arnoul		
.22	Michel, Jean		-1493
.23	Gringoire, Pierre		1480-1544
.24			
.25			
.26			
.27			
.28			
.29	Minor dramatists		
.3	<b>Renaissance</b>	1500-1600	
.31	Le Coq, Thomas		
.32	Baif, Lazare de		
.33	La Peruse, Jean Bastier de		1530-55
.34	Jodelle, Étienne		1532-73
.35	Grévin, Jacques		1538-70
.36	La Taille, Jean de		1540-1608
.37	Garnier, Robert		1545-1601
.38	Larivey, Pierre de		1550-1612
.39	Minor dramatists		
.4	<b>Classic period</b>	1600-1715	
.41	Corneille, Pierre		1606-84
.42	Molière, Jean Baptiste Poquelin, <i>called</i>		1622-73
.43	Corneille, Thomas		1625-1709
.44	Boursault, Edme		1638-1701
.45	Racine, Jean		1639-99
.46	Brueys, David Augustin de		1640-1723
.47	Dufresny, Charles Rivière		1648-1724
.48	Baron, Michel Boyron, <i>called</i>		1653-1729
.49	Minor dramatists		
.5	<b>18th century</b>	1715-89	
.51	La Motte, Antoine Houdart de		1672-1731
.52	Crébillon, Prosper Jolyot de		1674-1762
.53	Destouches, Philippe Nericault		1680-1754
.54	Marivaux, Pierre Carlet de Chamblain de		1688-1763 See 843.52
.55	Piron, Alexis		1689-1773
.56	Voltaire, François Marie Arouet de		1694-1778 See 843.54
.57	Sédaine, Michel Jean		1719-97
.58	Beaumarchais, Pierre Augustin Caron de		1732-99
.59	Minor dramatists		
.6	<b>Revolution and empire</b>	1789-1815	
.61	Ducis, Jean François		1733-1816
.62	Collin-Harleville, Jean François		1735-1806
.63	La Harpe, Jean François de		1739-1803 See 844.61
.64	Fabre d'Églantine, Philippe François Nazaire		1755-94
.65	Andrieux, François Guillaume Jean Stanislas		1759-1833
.66	Chenier, Marie Joseph		1764-1811
.67	Picard, Louis Benoît		1769-1828
.68	Lemercier, Louis Jean Népomucène		1771-1840
.69	Minor dramatists		

842.7	<b>Constitutional monarchy</b>	<b>1815-48</b>	
.71	Soumet, Alexandre		1788-1845
.72	Delavigne, Jean François Casimir		1793-1843 See 841.72
.73	Scribe, Augustin Eugène		1791-1861
.74	Ancelot, Jacques Arsène François Polycarpe		1794-1864
.75	Vigny, Alfred Victor, comte de		1799-1863 See 841.76
.76	Musset, Louis Charles Alfred de		1810-57 See 841.77
.77	<b>Dumas, Alexandre, the elder</b>		1806-70 See 843.78
.78	<b>Hugo, Victor Marie, comte</b>		1802-85
	See also 841.78 and 843.78		
.79	Minor dramatists		

<b>.8</b>	<b>Later 19th century</b>	<b>1848-1900</b>	
.81	Labiche, Eugène Marin		1815-88
.82	Ponsard, François		1824-67
.83	Augier, Guillaume Victor Émile		1822-89
.84	Dumas, Alexandre, fils		1824-95
.85	Bornier, Henri de		1825-1901
.86	Sardou, Victorien		1831-1908
.87	Pailleron, Édouard		1834-99
.88	Coppée, Francis Édouard Joachim		1842-1903 See 841.85
.89	Minor dramatists		

<b>.91</b>	<b>Early 20th century</b>	<b>1901-</b>	
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**843 French fiction**

<b>.2</b>	<b>Transition period</b>	<b>1400-1500</b>	
.21	Christine de Pisan		1363-1431
.22	Jean de Tuim		
.23	La Sale, Antoine de		1398-1462
.24	Chastelain, Georges		1403-75

.25  
.26  
.27  
.28  
.29

Minor writers

<b>.3</b>	<b>Renaissance</b>	<b>1500-1600</b>	
.31	Marguerite de Navarre		1492-1549
.32	Desperriers, Bonaventure		1500-44
.33	Herberay, Nicolas d'		-1552
.34	Du Fail, Noël		-1585
.35	Bouchet, Guillaume		1526-1606
.36	Beroalde de Verville, François		1558-1612

.37  
.38  
.39

Minor writers

<b>.4</b>	<b>Classic period</b>	<b>1600-1715</b>	
.41	Urfé, Honoré d'		1568-1625
.42	Gomberville, Marin Le Roy de		1600-47
.43	La Calprenède, Gauthier de Costes de		1602-63
.44	Scudéry, Georges de		1601-67
.45	Scudéry, Madeleine de		1607-1701
.46	Cyrano de Bergerac, Savinien		1620-55
.47	Perrault, Charles		1628-1703
.48	Lafayette, Marie Madeleine Pioche de la Vergne, comtesse de		1634-93
.49	Minor writers		

843.5	<b>18th century 1715-89</b>	
.51	Le Sage, Alain René	1668-1747
.52	Marivaux, Pierre Carlet de Chamblain de	1688-1763 See 842.54
.53	Prévost d'Exiles, Antoine François	1697-1763
.54	<b>Voltaire, François Marie Arouet de</b>	1694-1778 See 842.55
.55	Crébillon, Claude Prosper Jolyot de, fils	1707-77
.56	<b>Rousseau, Jean Jacques</b>	1712-78
.57	Restif de la Bretonne, Nicolas Edme	1734-1806
.58	Florian, Jean Pierre Claris de	1755-94
.59	Minor writers	
.6	<b>Revolution and empire 1789-1815</b>	
.61	St Pierre, Jacques Henri Bernardin de	1737-1814
.62	<b>Staal Holstein, Anne Louise Germaine (Necker), baronne de</b>	1766-1817
.63	Constant de Rebecque, Henri Benjamin	1767-1830
.64	Maistre, Xavier de	1763-1852
.65	Chateaubriand, François Auguste René, vicomte de	1768-1848
.66		
.67		
.68		
.69	Minor writers	
.7	<b>Constitutional monarchy 1815-48</b>	
.71	Beyle, Marie Henri [de Stendhal]	1783-1842
.72	Nodier, Charles	1790-1844
.73	<b>Balzac, Honoré de</b>	1799-1850
.74	Sue, Marie Joseph, <i>called</i> Eugène	1804-57
.75	Souvestre, Émile	1806-54
.76	<b>Dumas, Alexandre, the elder</b>	1806-70 See 842.77
.77	Gautier, Théophile	1811-72
.78	<b>Hugo, Victor Marie, comte</b>	1802-85
	See also 841.78 and 842.78	
.79	Minor writers	
.8	<b>Later 19th century 1848-1900</b>	
.81	Mérimée, Prosper	1803-70
.82	<b>Dudevant, Amantine Lucile Aurore Dupin [George Sand]</b>	1804-76
.83	Feuillet, Octave	1822-90
.84	Flaubert, Gustave	1821-81
.85	Eckmann-Chatrion { Eckmann, Émile Chatrion, Alexandre	1822-99 1826-90
.86	About, Edmond François Valentin	1828-85
.87	Cherbuliez, Victor	1829-99
.88	Daudet, Alphonse	1840-97
.89	Minor writers	
.91	<b>Early 20th century 1901-</b>	
844	<b>French essays</b>	
.3	<b>Renaissance 1500-1600</b>	
.31	Montaigne, Michel Eyquem de	1533-92
.4	<b>Classic period 1600-1715</b>	
.41	Du Vair, Guillaume	1556-1621
.42	Saint-Évremond, Charles de Marguetel de Saint- Denis de	1613-1703

- 844.5 18th century 1715-89
- .51 Fontenelle, Bernard le Bovier de 1657-1757
- .52 Montesquieu, Charles le Secondat, baron de 1689-1755
- .53 Alembert, Jean le Rond d' 1717-83
- .6 Revolution and empire 1789-1815
- .61 La Harpe, Jean François de 1739-1803 See 842.63
- .62 Joubert, Joseph 1754-1824
- .63 Courier de Méré, Paul Louis 1772-1825
- .64 Senancour, Étienne Pivert de 1770-1846
- .7 Constitutional monarchy 1815-48
- .71 La Mennais, Hugues Félicité Robert de 1782-1854
- .72 Villemain, Abel François 1790-1870
- .73 Planché, Jean Baptiste Gustave 1808-57
- .74 Sainte Beuve, Charles Augustin 1804-69
- .75 Saint-Marc Girardin 1801-73
- .76 Janin, Jules Gabriel 1804-74
- .77 Nisard, Jean Marie Napoléon Désiré 1806-88
- .8 Later 19th century 1848-1900
- .81 Quinet, Edgar 1803-75
- .82 Renan, Ernest 1823-92
- .83 Taine, Hippolyte Adolphe 1828-93
- .91 Early 20th century 1901-
- 845 French oratory Subdivided by periods like 841
- 846 French letters Subdivided by periods like 841
- 847 French satire and humor
- .1 Early French 842-1400
- .11 Guyot de Provins
- .12 *Roman du Renard* See 837.31 and 839.371
- .13 Deschamps, Eustache 1320-1400
- .3 Renaissance 1500-1600
- .31 Marot, Clément 1495-1544
- .32 Rabelais, François 1495-1553
- .33 *La Satyre Ménippée* 1594
- .34 Aubigné, Théodore Agrippa d' 1550-1630
- .35 Regnier, Mathurin 1573-1613
- .4 Classic period 1600-1715
- .41 Viau, Théophile de 1590-1626
- .42 Saint Amant, Marc Antoine Gérard 1594-1661
- .43 Scarron, Paul 1610-60
- .44 Benserade, Isaac de 1612-91
- .45 Furetière, Antoine 1620-88
- .46 Boileau Despréaux, Nicolas 1636-1711
- .47 Regnard, Jean François 1655-1709
- .5 18th century 1715-89
- .51 Gresset, Jean Baptiste Louis 1709-77
- .52 Gilbert, Nicolas Joseph Laurent 1751-80
- .7 Constitutional monarchy 1815-48
- .71 Barthélemy, August Marseille 1796-1867
- .72 Barbier, Henri Auguste 1805-82
- 848 French miscellany Subdivided by periods like 841

# 849 Provençal literature

- .I Provençal poetry
- .II 1st period 900-1100  
Poetry in hands of clergy. No folk poetry preservd. Form mainly epic. Language not yet fixt. Country under rule of counts, nominally subject to emperor, really independent till 1486, then reunited to France
- .III Epic poetry  
Boethius
- .II2 Lyric poetry
- .II9 Minor poetry Didactic
- .I2 Golden age 1100-1300  
Poets mainly knights, but after 1250 almost exclusively burghers. Lyric most important
- .I21 Romances of chivalry  
Girart de Rossilho
- .I22 Historical poetry  
Croisade contre les Albigeois
- .I23 Romans d'aventures  
Flamenca
- .I24 Lyric poetry
- .I25 Bernart de Ventadorn flourisht about 1140-95
- .I26 Born, Bertran de " " 1180-95
- .I27 Arnaut, Daniel " " 1180-1200
- .I28 Borneill, Guiraut de " " 1175-1220
- .I29 Minor poetry  
Nearly 500 poets named beside anonymous poems. Form prevails over content; great variety of poetic forms. These lyric poets are the real Troubadours
- .I3 Aftermath 1300-1500  
Downfall of language and literature owing to lack of content and politica and social causes, specially the crusade against the Albigenes
- .I31 Poets of school of Toulouse  
Arnaut Vidal, first recipient of the Golden Violet, 1324. Poetry artificial, a craft. Las Leys d'Amors is the code of poetic laws, by Guillem Molinier, chancellor of 'Consistory de la gaya sciensa' establisht at Toulouse 1324. First prize a golden violet. When in danger of perishing, consistory revived in 1484 and poetic exercises styled 'Jeux floraux'
- .I32 La Noble Leyczon  
Religious poetry of Waldenses
- .I39 Minor poetry
- .I4 Decadence 1500-  
Provençal sinks to position of a dialect despite fitful attempts to revive it, the most recent, that connected with publication of Li Provençalo 1852
- .I41 Goudouli, Pierre de 1579-1649
- .I42 Despourrins, Cyprien 1698-1755
- .I43 Jasmin, Jacques 1798-1864
- .I44 Roumanille, Joseph 1818-91
- .I45 Aubanel, Jos. Marie J. Baptiste Théodore 1829-86
- .I46 Mistral, Frédéric 1830-
- .I49 Minor poetry



## Catalan literature

- .91 Catalan poetry
- .911 1st period 1200-1350  
 Catalonia before 1137 ruled by French counts, then united to Aragon. Language is closely allied to Provençal, in which first poets wrote. Mss scattered; few as yet printed. Literature begins with James I (1213-76) who made Catalan the state language  
 For Ramon Muntaner see 849.9813  
 1 Raimon Lull 1225-1315 2 Feblor 1250 9 Minor poets
- .912 2d period 1350-1450  
 Imitation of Neo Provençal, French and Italian, specially of Dante, Petrarch and Boccaccio. Some flashes of originality. Fra Rocaberti. Imitation of Dante
- .913 Age of perfection 1450-  
 From 16th century, Catalan literature merged in Spanish, tho some writers still employ idiom, e. g. 'Balaguer'  
 1 March, Ausias -1460, greatest of Catalan poets 2 Fenolla, Bernard  
 3 Jacme Roig (satiric) 4 Farrer 5 Serafi 6 Pujol 7 Garcia  
 9 Minor poets
- .93 Catalan fiction
- .933 Age of perfection 1450-  
 Joanet Martorel -1400. *Tirant lo Blanch*, a chivalric romance
- .98 Miscellany
- .981 1st period 1200-1350  
 Prose superior to poetry. Chronicles of great importance, culminating in Muntaner  
 1 James I (The Conqueror) 1213-76 2 Desclot, Bernardo 3 Muntaner, Ramon 1265-1340 4 Ximenes 9 Minor authors
- .982 2d period 1350-1450  
 Prose resists foren influences better than poetry. Many philosophic and theologic writings beside historical works  
 1 Tomich 2 Turell 9 Minor writers

# 850 Italian literature

850.1 Philosophy .2 Compendis .3 Dictionaries .4 Essays, lectures and addresses on Italian literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

## 851 Italian poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic  
.06 Descriptive .07 Satiric and humorous .09 History of Italian poetry

### .1 Early Italian; Age of Dante -1375

To deth of Boccaccio, 1375

.11	Protonotario, Stefano	-1250
.12	Arezzo, Guittone d'	-1294
.13	Guiccelli, Guido	-1276
.14	Cavalcanti, Guido	1260-1300
.15	Alighieri, Dante	1265-1321
.16	Pistoia, Cino da	1270-1336
.17	Uberti, Fazio degli	-1369
.18	Petrarca, Francesco	1304-74
.19	Minor poets	

### .2 Period of classic learning 1375-1492

From deth of Boccaccio, 1375, to deth of Lorenzo il Magnifico, 1492

.21	Prezzi, Federigo	-1416
.22	Bojardo, Matteo	1430-94
.23	Medici, Lorenzo dei (Il Magnifico)	1448-92
.24	Poliziano, Angelo	1454-94
.25	Benivieni, Girolamo	1453-1542 See 852.22
.26	Sannazzaro, Jacopo	1458-1530
.29	Minor poets	

### .3 Age of Leo the Tenth 1492-1542

From deth of Lorenzo il Magnifico, 1492, to convocation of council of Trent, 1542

.31	Bembo, Pietro	1470-1547
.32	Ariosto, Lodovico	1474-1533
.33	Rucellai, Giovanni	1475-1526
.34	Molza, Francesco	1483-1544 See 853.33
.35	Tasso, Bernardo	1493-1569
.36	Alamanni, Luigi	1495-1556
.37	Guidiccioni, Giovanni	1500-41
.38	Casa, Giovanni della	1503-56
.39	Minor poets	

### .4 Later 16th century 1542-85

From convocation of council of Trent, 1542, to pontificate of Sixtus 5, 1585

.41	Costanzo, Angelo di	1507-91
.42	Rota, Bernardino	1509-75
.43	Tansillo, Luigi	1510-68
.44	Magno, Celio	1536-1602
.45	Guarini, Giovambattista	1537-1612
.46	Tasso, Torquato	1544-95
.47	Baldi, Bernardino	1553-1617
.49	Minor poets	

851.5	<b>Period of decline</b>	<b>1585-1748</b>	
	From pontificate of Sixtus 5, 1585-90, to peace of Aix-la-Chapelle, 1748		
.51	Chiabrera, Gabriello		1552-1637
.52	Marini, Giovambattista		1569-1625
.53	Testi, Fulvio		1593-1646
.54	Filicaja, Vincenzo		1642-1707
.55	Guidi, Alessandro		1650-1712
.56	Manfredi, Eustachio		1674-1738
.57	Frugoni, Carlo Innocenzo		1692-1768
.58	Algarotti, Francesco		1712-64
.59	Minor poets		
.6	<b>Period of renovation</b>	<b>1748-1814</b>	
	From peace of Aix-la-Chapelle, 1748, to congress of Vienna, 1814		
.61	Paradisi, Agostino		1736-83
.62	Mascheroni, Lorenzo		1750-1800
.63	Pindemonte, Ippolito		1753-1828
.64	Monti, Vincenzo		1754-1828
.65	Cassi, Francesco		1778-1846
.66	Foscolo, Ugo		1779-1827
.67	Arici, Cesare		1782-1836
.68	Sestini, Bartolommeo		1792-1822
.69	Minor poets		
.7	<b>Early 19th century</b>	<b>1814-59</b>	
	From congress of Vienna, 1814, to war of Independence, 1859		
.71	Berchet, Giovanni		1783-1851
.72	Rossetti, Gabriello		1783-1854
.73	Manzoni, Alessandro		1785-1873 See 853.72
.74	Marchetti, Giovanni		1790-1852
.75	Leopardi, Giacomo		1798-1837
.76	Carrer, Luigi		1801-50
.77	Regaldi, Giuseppe		1809-83
.78	Prati, Giovanni		1815-84
.79	Minor poets		
.8	<b>Later 19th century</b>	<b>1859-1900</b>	
	From war of Independence, 1859, to 1900		
.81	Aleardi, Aleardo		1810-78
.82	Zanella, Giacomo		1820-88
.83	Gnoli, Domenico		1839-
.84	Carducci, Giosuè		1835-1907
.85	Fogazzaro, Antonio		1842-1911
.86	Rapisardi, Mario		1844-
.87	Guerrini, Olindo		1845-
.88	Minor poets		
.91	<b>Early 20th century</b>	<b>1901-</b>	

# 852 Italian drama

.1	<b>Early Italian</b>	<b>Age of Dante</b>	<b>-1375</b>	
.2	<b>Period of classic learning</b>		<b>1375-1492</b>	
.21	Belcari, Feo		1410-84	
.22	Poliziano, Angelo		1454-94	See 851.24
.29	Minor dramatists			
.3	<b>Age of Leo the Tenth</b>		<b>1492-1542</b>	
.31	Machiavelli, Niccolò		1469-1527	See also 854.31
.32	Dovizi, Bernardo (Cardinal Bibbiena)		1470-1520	
.33	Trissino, Gian Giorgio		1478-1550	
.34	Aretino, Pietro		1492-1556	
.35	Ambra, Francesco d'		-1558	
.39	Minor dramatists			
.4	<b>Later 16th century</b>		<b>1542-85</b>	
.41	Speroni, Sperone		1500-88	
.42	Giraldi, G. B. Cinzio		1504-73	See also 853.44
.43	Cecchi, Giovanni Maria		1517-87	
.44	Asinari, Federigo		1527-76	
.45	Porta, Giovambattista della		1538-1615	
.49	Minor dramatists			
.5	<b>Period of decline</b>		<b>1585-1748</b>	
.51	Buonarroti, Michelangiolo jr		1564-1646	
.52	Rinuccini, Ottavio		1565-1622	
.53	Andreini, Giovambattista		1578-1650	
.54	Gigli, Girolamo		1660-1722	
.55	Zeno, Apostolo		1669-1750	
.56	Maffei, Scipione		1675-1755	
.57	Trapassi, Pietro (Metastasio)		1698-1782	
.59	Minor dramatists			
.6	<b>Period of renovation</b>		<b>1748-1814</b>	
	For Manzoni, see 851.73 and 853.72			
.61	Goldoni, Carlo		1707-73	
.62	Gozzi, Carlo		1722-1806	
.63	Capacelli Albergati, Francesco		1728-1804	
.64	Alfieri, Vittorio		1749-1803	
.65	Nota, Alberto		1775-1847	
.66	Biondi, Luigi		1776-1839	
.67	Benedetti, Francesco		1785-1821	
.69	Minor dramatists			
.7	<b>Early 19th century</b>		<b>1814-59</b>	
.71	Niccolini, Giovambattista		1782-1861	
.72	Pellico, Silvio		1788-1854	
.73	Giacometti, Paolo		1816-81	
.74	Gherardi del Testa, Tommaso		1818-82	
.75	Ferrari, Paolo		1822-89	
.79	Minor dramatists			
.8	<b>Later 19th century</b>		<b>1859-1900</b>	
.81	Bersezio, Vittorio		1830-1900	
.82	Cossa, Pietro		1833-82	
.83	Carrera, Valentino		1834-95	
.84	Marenco, Leopoldo		1831-99	
.85	Cavallotti, Felice		1842-98	
.86	Torelli, Achille		1844-	
.87				
.88				
.89	Minor dramatists			
.91	<b>Early 20th century</b>		<b>1901-</b>	

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|-----|-----------------------------------|--|------------------|-----------------|
| .1  | <b>Early Italian</b>              | <b>Age of Dante</b>                                | <b>-1375</b>     |                 |
| .11 |                                   | "Cento Novelle Antiche" (Gualteruzzi's collection) |                  |                 |
| .12 | Barberino, Francesco da           |  | 1264-1348        |                 |
| .13 | Pisa, Guido da                    |  | -1350            |                 |
| .14 | Gubbio, Bosone da                 |  |                  |                 |
| .15 | <b>Boccaccio, Giovanni</b>        |  | 1313-75          |                 |
| .19 | Minor writers                     |  |                  |                 |
| .2  | <b>Period of classic learning</b> |  | <b>1375-1492</b> |                 |
| .21 | Sacchetti, Franco                 |  | -1400            |                 |
| .22 | Fiorentino, Ser Giovanni          |  |                  |                 |
| .23 | Manetti, Antonio                  |  | 1423-97          |                 |
| .24 | Mangabotti, Andrea dei            |  |                  |                 |
| .25 | Prato, Giovanni da                |  |                  |                 |
| .29 | Minor writers                     |  |                  |                 |
| .3  | <b>Age of Leo the Tenth</b>       |  | <b>1492-1542</b> |                 |
| .31 | Salernitano, Masuccio             |  |                  |                 |
| .32 | Bandello, Matteo                  |  | 1480-1561        |                 |
| .33 | Molza, Francesco                  |  | 1483-1544        | See also 851.34 |
| .34 | Firenzuola, Agnolo                |  | 1493-1548        |                 |
| .39 | Minor writers                     |  |                  |                 |
| .4  | <b>Later 16th century</b>         |  | <b>1542-85</b>   |                 |
| .41 | Grazzini, Antonfrancesco (Lasca)  |  | 1503-83          |                 |
| .42 | Doni, Antonfrancesco              |  | 1513-74          |                 |
| .43 | Erizzo, Sebastiano                |  | 1525-85          |                 |
| .44 | Giraldi, G. B. Cinzio             |  | 1504-73          | See also 852.42 |
| .45 | Parabosco, Girolamo               |  | -1560            |                 |
| .49 | Minor writers                     |  |                  |                 |
| .5  | <b>Period of decline</b>          |  | <b>1585-1748</b> |                 |
| .6  | <b>Period of renovation</b>       |  | <b>1748-1814</b> |                 |
| .7  | <b>Early 19th century</b>         |  | <b>1814-59</b>   |                 |
| .71 | Rosini, Giovanni                  |  | 1776-1855        |                 |
| .72 | <b>Manzoni, Alessandro</b>        |  | 1785-1873        | See also 851.73 |
| .73 | Grossi, Tommaso                   |  | 1791-1853        |                 |
| .74 | Guerrazzi, Francesco Domenico     |  | 1804-73          |                 |
| .75 | Bresciani, Antonio                |  | 1798-1862        |                 |
| .76 | Cantù, Cesare                     |  | 1807-95          |                 |
| .77 | Carcano, Giulio                   |  | 1812-83          |                 |
| .78 | Azeglio, Massimo d'               |  | 1800-66          |                 |
| .79 | Minor writers                     |  |                  |                 |
| .8  | <b>Later 19th century</b>         |  | <b>1859-1900</b> |                 |
| .81 | Castellazzo, Luigi                |  | 1827-90          |                 |
| .82 | Barrili, Anton Giulio             |  | 1836-1908        |                 |
| .83 | Capuana, Luigi                    |  | 1839-            |                 |
| .84 | Verga, Giovanni                   |  | 1840-            |                 |
| .85 | Faldella, Giovanni                |  | 1846-            |                 |
| .86 | Farina, Salvatore                 |  | 1846-            |                 |
| .87 | Giovagnoli, Raffaele              |  | 1838-            |                 |
| .88 | Serao, Matilde                    |  | 1856-            |                 |
| .89 | Minor writers                     |  |                  |                 |
| .91 | <b>Early 20th century</b>         |  | <b>1901-</b>     |                 |

# 854 Italian essays

.1	<b>Early Italian</b>	<b>Age of Dante</b>	<b>-1375</b>
.11		Cavalca, Fra Domenico	-1342
.12		Passavanti, Fra Jacopo	-1357
.2	<b>Period of classic learning</b>		<b>1375-1492</b>
.21		Alberti, Leone Battista	1404-72
.22		Palmieri, Matteo	1405-75
.23		Bisticci, Vespasiano da	1421-98
.24		Collenuccio, Pandolfo	-1504
.25		Vinci, Leonardo da	1452-1519
.29		Minor essayists	
.3	<b>Age of Leo the Tenth</b>		<b>1492-1542</b>
.31		Machiavelli, Niccolò	1469-1527
.32		Nardi, Jacopo	1476-1555
.33		Castiglione, Baldassare	1478-1529
.34		Guicciardini, Francesco	1482-1540
.35		Giannotti, Donato	1494-1573
.36		Giambullari, Pier Francesco	1495-1555
.37		Gelli, Giovambattista	1498-1563
.38		Varchi, Benedetto	1503-66
.39		Minor essayists	
.4	<b>Later 16th century</b>		<b>1542-85</b>
.41		Castelvetro, Ludovico	1505-71
.42		Piccolomini, Alessandro	1508-78
.43		Borghini, Vincenzo	1515-80
.44		Davanzati, Bernardo	1529-1606
.45		Salviati, Leonardo	1540-89
.46		Ammirato, Scipione	1531-1601
.47		Paruta, Paolo	1540-98
.48		Botero, Giovanni	1540-1617
.49		Minor essayists	
.5	<b>Period of decline</b>		<b>1585-1748</b>
.51		Sarpi, Paolo	1550-1623
.52		Galilei, Galileo	1564-1642
.53		Bartoli, Daniele	1608-85
.54		Dati, Carlo	1619-75
.55		Gravina, Giovanni Vincenzo	1664-1718
.56		Muratori, Ludovico Antonio	1672-1750
.57		Giannone, Pietro	1676-1748
.58		Zanotti, Francesco Maria	1692-1777
.59		Minor essayists	
.6	<b>Period of renovation</b>		<b>1748-1814</b>
.61		Bettinelli, Saverio	1718-1808
.62		Denina, Carlo	1730-1813
.63		Tiraboschi, Girolamo	1731-94
.64		Lanzi, Luigi	1732-1810
.65		Beccaria, Cesare	1735-93
.66		Filangeri, Gaetano	1752-88
.67		Cesari, Antonio	1760-1828
.68		Perticari, Giulio	1779-1822
.69		Minor essayists	

See also 852.31

854.7	<b>Early 19th century</b>	<b>1814-59</b>	
.71	Costa, Paolo		1771-1836
.72	Giordani, Pietro		1774-1848
.73	Troya, Carlo		1785-1859
.74	Balbo, Cesare		1789-1853
.75	Capponi, Gino		1792-1878
.76	Mamiani della Rovere, Terenzio		1800-85
.77	Gioberti, Vincenzo		1801-53
.78	Tommaséo, Niccolò		1802-74
.79	Minor essayists		
.8	<b>Later 19th century</b>	<b>1859-1900</b>	
.81	Sanctis, Francesco de		1818-83
.82	Bonghi, Ruggiero		1827-95
.83	Conti, Augusto		1822-1905
.84	Villari, Pasquale		1827-
.85	Ardigò, Roberto		1828-
.86	Comparetti, Domenico		1835-
.87	Zumbini, Bonaventura		1840-
.88	Panzacchi, Enrico		1841-1904
.89	Minor essayists		
.91	<b>Early 20th century</b>	<b>1901-</b>	

855 Italian oratory  
 856 Italian letters  
 857 Italian satire and humor

.1	<b>Early Italian</b>	<b>Age of Dante</b>	<b>-1375</b>
.11	Gemignano, Folgore da San		
.12	Chitarra, Cene dalla		
.13	Angiulieri, Cecco		
.14	Pucci, Antonio		-1377
.19	Minor writers		
.2	<b>Period of classic learning</b>	<b>1375-1492</b>	
.21	Burchiello, Domenico		1395-1448
.22	Pulci, Luigi		1432-84
.23	Vinciguerra, Antonio		
.29	Minor writers		
.3	<b>Age of Leo the Tenth</b>	<b>1492-1542</b>	
.31	Polengo, Teofilo (Merlin Cocai)		1491-1544
.32	Berni, Francesco		1496-1535
.39	Minor writers		
.4	<b>Later 16th century</b>	<b>1542-85</b>	
.41	Nelli, Pietro		
.42	Beccuti, Francesco		1509-53
.43	Caporali, Cesare		1531-1601
.49	Minor writers		
.5	<b>Period of decline</b>	<b>1585-1748</b>	
.51	Tassoni, Alessandro		1565-1635
.52	Bracciolini, Francesco		1566-1645
.53	Lalli, Giovambattista		1572-1637
.54	Lippi, Lorenzo		1606-64
.55	Rosa, Salvatore		1615-73
.56	Menzini, Benedetto		1646-1704
.57	Sergardi, Ludovico		1660-1726
.58	Fortiguerra, Niccolò		1674-1735
.59	Minor writers		

857.6	Period of renovation	1748-1814	
.61	Gozzi, Gasparo	1713-86	
.62	Passeroni, Gian Carlo	1713-1803	
.63	Casti, Giovambattista	1721-1803	
.64	Parini, Giuseppe	1739-99	
.65	Baretti, Giuseppe	1716-89	
.66	Elci, Angelo Maria d'	1754-1824	
.67	Pananti, Filippo	1766-1837	
.69	Minor writers		
.7	Early 19th century	1814-59	
.71	Giusti, Giuseppe	1809-50	
.8	Later 19th century	1859-1900	
.91	Early 20th century	1901-	

## 858 Italian miscellany

.8	Later 19th century	1859-1900	
.81	Gubernatis, Angelo de	1840-	
.82	Amicis, Edmondo de	1846-1908	

## 859 Wallachian literature

.1 Poetry	.2 Drama	.3 Fiction	.4 Essays	.5 Oratory	.6 Letters
.7 Satire and humor	.8 Miscellany]				

.9	Rumansh literature
	Subdivided like 859



# 860 Spanish literature

- 860.1 Philosophy .2 Compendis .3 Dictionaries .4 Essays .5 Periodicals  
 .6 Societies .7 Study and teaching .8 Collections .9 History

## 861 Spanish poetry

- .02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic  
 .06 Descriptiv .07 Satiric and humorous .09 History of Spanish poetry

### .1 Early Spanish -1369

In 711 the Visigothic kingdom, founded in the 5th century, was overthrown by Arabs: 711-1492 Arabic period or Age of reconquest  
 Literature began in first half of 12th century. Earliest poetry, epic; subjects national, themes war and religion (861.11-12). These were followed by an erudite tendency toward classic tradition neglecting national themes (861.13 and 14) which were however revived toward the close of the period (861.15) by continued victories over Moors under Alfonso 11th, 1312-50, thereafter reaction again toward didactic (861.16). Under Alfonso the Wise, 1252-84, a general intellectual awakening, but leading to greater results in prose than in poetry. Thru him (1) Provençal (and Galician) and (2) Oriental influences were introduced. In Provençal literature chief attention was given to perfection of poetic form. The Oriental was didactic in content, symbolic in form.

#### .11 Primitiv monuments

#### .12 Poema de mio Cid

- .13 Berceo, Gonzalo de 1196-1266  
 .14 Segura de Astorga, Juan Lorenzo 1250  
 .15 Yañez Ruy (Cronica del Rey Alfonso Onceno)  
 .16 Sem Tob, Rabbí 1350  
 .19 Minor poets

### .2 Age of imitation 1369-1516

Henry 2d to Carlos 1st, Charles 5th of Germany. 1479, Union of Castile and Arragon. Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There were 3 distinct schools:

- 1 Provençal, specially influential at court
- 2 Italian (Dante) or Allegoric, introduced by Francisco Imperial, a Genoese. (Mena, 861.22)
- 3 Didactic. A protest against the Italian school in behalf of national literary traditions. (Ayala, 861.21)

- .21 Lopez de Ayala, Pedro 1332-1407  
 .22 Mena, Juan de 1411-56  
 .23 Mendoza, Iñigo Lopez de, Marqués de Santillana 1398-1458  
 .24 Manrique, Jorge 1440-79  
 .25 Los Cancioneros } Collections of poetry  
 .26 Los Romances }

#### .27 Romancero del Cid

\* Romances ' popular poetry, peculiar to Spain, and generally anonymous; period of production, from earliest times to 18th century. Golden Age during reign of Ferdinand and Isabella, a grand reawakening coming with the fall of Granada, 1492

#### .29 Minor poets

Rule of House of Austria. Painting culminates in this period: Morales 1509-86; Coello 1515-90; Joanes 1523-79; The Herrera — 16th century; Ribera 1588-1666; Zurbaran 1598-1662; Velazquez 1599-1660; Cano 1601-1667; Murillo 1618-1682, etc.

Fierce opposition to the Reformation intensified religious sentiment and produced a school of mystics. The sentiment of nationality became a dream of universal monarchy. The chivalric cult of woman was replaced by an exaggerated conception of female honor, the least suspicion of frailty being visited with death. Great number of poets. Nothing notable in epic; lyric very prominent; at first Italian influences more intensified, Petrarch the model. This movement, begun by Juan Boscan 1500(?)—1543, culminated in Garcilaso (861.31). The protest against this in favor of national traditions is best represented by Castillejo (861.32). Mendoza (861.36) represents a conciliation. A fusion of 2 schools follows in which the Italian wins the major influence. Thereafter appear 2 new schools:

- 1 Classic, opposed to the fusion and represented by Leon (861.33) and the Argensolas (861.34) and
- 2 Sicilian or Oriental (inspired specially by the Bible) of which Herrera (861.35) is standard bearer. First manifestations of 'bad taste' appear (founder of school, Alonso de Ledesma 1552-1623) represented by Gongora (861.37) which despite opposition (Rioja 861.38) produces rapid decadence. 'Bad taste' consisted in artificialities, exaggerations, obscurities, etc.

.31	Vega, Garcilaso de la	1503-36
.32	Castillejo, Cristóbal de	1494-1596
.33	Leon, Luis Ponce de	1528-91
	Leon is equally important in prose	
.34	Los Argensolas: Lupercio	1563-1613
	Bartolomé Leonardo	1564-1631
.35	Herrera, Fernando de	1534-97
.36	Mendoza, Diego Hurtado de	1503-75
.37	Góngora y Argote, Luis de	1561-1627
.38	Rioja, Francisco de	1600-59
.39	Minor poets	

.4 18th century 1700-1800

At death of Carlos 2d (1700) war of succession resulted in firm establishment of house of Bourbon, which, with brief interruptions, has continued to rule. Spanish political importance lost. At opening of century complete decadence, 'bad taste' every where dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance, however, till close of century, despite foundation of academies (Spanish academy, 1714) and doctrinal reform in French sense, proclaimed by Luzan (1702-54) in *La poetica*, etc. Thereafter a kind of revival. 3 schools formed:

- 1 Classic French. Moratin the elder (861.41); Cadalso (861.42); Yriarte (861.45) and Samaniego (861.44)
- 2 Antique national, protesting against introduction of French taste. Huerta (861.43)
- 3 Salamanca school, an attempt to reconcile the first 2, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (862.42) and Jovellanos (868.42). 'Prosaism' production of exaggerated opposition to Gongorism or 'bad taste' also characterizes period. Influence of French encyclopedism also manifest. Development of science checked by religious (Inquisition) and political despotism. Rich development of fables and apologues in verse. Samaniego (861.44) and Yriarte (861.45). In epic, complete poverty

.41	Moratin (the Elder), Nicolás Fernandez de	1737-80
.42	Cadalso, José de	1741-82
.43	Huerta, Vicente Antonio García de la	1734-87
.44	Samaniego, Félix María de	1745-1801
.45	Yriarte, Tomás de	1750-91
.46	Valdés, Juan Melendez	1754-1817
.47	Iglesias de la Casa, José	1748-91
.48	Cienfuegos, Nicasio Alvarez de	1764-1809
.49	Minor poets	

## 19th century 1800-1900

Abdication of Carlos 4th, 1808; Joseph 1st (Bonaparte) 1808-13. Ferdinand 7th restored. Salic law abrogated, opening succession to daughter Isabella. Carlist insurrections (upholding Salic law) queld. Isabella driven from throne by revolution 1868; 1870-73 Amadeo (Savoy house), 1873, Amadeo abdicates and republic proclaimed; monarchy restored with Alfonso 12th in 1875. Age, till close of Ferdinand's reign, very unfavorable to letters. Under Carlos 4th (1788-1808) despotism reintroduced and revolution followed. Policy of Ferdinand 7th, after restoration (1813-33), retrograde. An interregnum in letters. First real awakening with Espronceda (861.52). Same fluctuations as in previous period. Romantic school introduced by Zorrilla (861.53)

.51	Quintana, Manuel José	1772-1857
.52	Espronceda, José de	1810-42
.53	Zorrilla y Moral, José	1817-90
.54	Gutierrez, Antonio García	1812-84
.55	Gil y Zárate, Antonio	1792-1861
.56	Hartzembusch, Juan Eugenio	1806-80
.59	Minor poets	

## .6 Early 20th century 1901-

## 862 Spanish drama

## .2 Age of imitation 1369-1516

Evidences of existence of 'mysteries' but no remains

.21	Enzina, Juan del	(?)1468-1534
.22	Vicente, Gil	(?)1450-1536

## .3 Golden age 1516-1700

Drama of this period is chief glory of Spanish letters; writers show a phenomenal fecundity (at 70 'Lope' had written 1500 dramas), 30,000 dramas composed by beginning of 18th century. At opening of period Church tried to check development of profane drama, placing nearly all in the *Index*. Torres Naharro (works pub. 1517) and Lope de Rueda (d. 1567) form transition from preceding period. Latter, reputed father of national theater. Lope de Vega (862.31) real founder. Drama culminates in Calderon (862.35); thereafter decadence

.31	Vega Carpio, Lope Felix de	1562-1635
.32	Castro y Belvis, Guillen de	1567-1621
.33	Tellez, Gabriel (Tirso de Molina, pseud.)	(?)1570-1648
.34	Alarcon y Mendoza, Juan Ruiz de	(?)1580-1639
.35	Calderon de la Barca, Pedro	1600-81
.36	Rojas y Zorrilla, Francisco de	1607-
.37	Moreto y Cabaña, Agustín	1618-69
.39	Minor dramatists	

## .4 18th century 1700-1800

Complete decadence of drama in last years of old monarchy. Revival in 18th century, following French classic drama. Culminates in Moratin the younger (862.42). Opposition of National school voiced in Huerta (861.43). Discussions provoke abundant productions, fecundity rather than merit characterizing mass of writers, Comella (862.41) — Period of unrest; old ideas can not be reestablished, new can not be naturalized

For Moratin the elder, see 861.41 and Huerta, 861.43

.41	Comella, Luciano Francisco	1716-79
.42	Moratin, Leandro Fernandez de	1760-1828
.43	Cruz, Ramon de la (Light comedies)	1731-95
.49	Minor dramatists	

## .5 19th century 1800-1900

Zorrilla (861.53), Gutierrez (861.54), and Rubí (862.52) represent 'romantic' movement in Spanish drama. For Gil y Zárate, see 861.55; Hartzembusch, 861.56

.51	Martinez de la Rosa, Francisco	1789-1862
.52	Rodriguez Rubí, Tomás	1817-90
.53	Breton de los Herreros, Manuel	1796-1873
.59	Minor dramatists	

## .6 Early 20th century 1901-



## 867 Spanish satire

- .1 Early Spanish -1369  
Ruiz, Juan (Arcipreste de Hita) 1350
- .2 Age of imitation 1369-1516  
*Coplas de Mingo Revulgo*
- .3 Golden age 1516-1700  
Quevedo Villegas, Francisco Gomez de 1580-1645
- .4 18th century 1700-1800  
For Cadalso, see 861.42; and Moratin the younger, 862.42
- .41 Jorge Pitillas (a pseudonym)
- .42 Isla, José Francisco de (el Padre) 1703-81

## 868 Spanish miscellany

- .1 Early Spanish -1369
- .11 Alfonso 10, el Sábido 1221-84
- .12 Sancho el Bravo (4th of Castile) 1258-95
- .13 Manuel, Juan 1282-1347
- .14 Alfonso 11 1310-50
- .19 Minor writers
- .2 Age of imitation 1369-1516  
General and special histories, books of travel, works cald forth by Boccaccio's *Corvaccio*, etc.
- .3 Golden age 1516-1700  
Didactic prose. Considerable development, tho less than poetry, owing in great measure to political and religious restraints. 'Bad taste' manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivedeneyra and Luis de Leon, representativs of Mystic school  
For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.3
- .31 Mariana, Juan de, founder of Spanish history 1536-1623
- .32 Granada, Luis de 1504-88
- .33 Teresa de Jesús, Santa 1513-82
- .34 Cruz, San Juan de la 1542-91
- .35 Rivadeneyra, Pedro de 1527-1611
- .36 Saavedra Fajardo, Diego de 1584-1648
- .39 Minor writers
- .4 18th century 1700-1800  
Under Carlos 3d (1759-88) scientific studies took a fresh start, due largely to Fejéjo who attempted intellectual emancipation of Spain. Prose advances under French influence, Gallicisms introduced
- .41 Fejéjo y Montenegro, Benito Jerónimo 1676-1764
- .42 Jovellanos, Gaspar Melchor de 1744-1811
- .49 Minor writers
- .5 19th century 1800-1900  
For Hartzembusch, J E, see 861.56
- .51 Gayangos, Pascual de 1809-97
- .52 Rios, José Amador de los 1818-78
- .53 Milá y Fontanals, Manuel, 1818-84
- .59 Minor writers
- .6 Early 20th century 1901-

## 869 Portuguese literature

- .1 Poetry
- .2 Drama
- .3 Fiction
- .4 Essays
- .5 Oratory
- .6 Letters
- .7 Satire and humor
- .8 Miscellany

## 870 Latin literature

- .1 Philosophy    .2 Compendis    .3 Dictionaries, cyclopedias    .4 Essays  
.5 Periodicals    .6 Societies    .7 Study and teaching    .8 Collections    .9 History  
of Latin literature

### 871 Latin poetry in general

See Dramatic, Epic and Lyric below

- .1 Lucretius Carus, Titus  
.2 Ovid (Publius Ovidius Naso)  
.3 Hyginus, Caius Julius  
.4 Faliscus, Gratius  
.5 Manilius, Marcus  
.6 Phaedrus  
.7 Lucilius Junior *Ætina*  
.8

### 872 Latin drama

- .1 Andronicus, Livius  
.2 Naevius, Cnaeus  
.3 Plautus, Titus Maccius  
.4 Ennius  
.5 Terence (Publius Terentius Afer)  
.6 Seneca, Lucius Annaeus See also 878.5  
.7

### 873 Latin epic poetry

- .1 Virgil (Publius Virgilius Maro)  
.2 Lucanus, Marcus Annaeus  
.3 Flaccus, Caius Valerius  
.4 Silius Italicus, Caius  
.5 Statius, Publius Papinius  
.6

### 874 Latin lyric poetry

- .1 Catullus, Tibullus and Propertius  
.2 Catullus, Valerius  
.3 Tibullus, Albius  
.4 Propertius, Sextus Aurelius  
.5 Horace (Quintus Horatius Flaccus) See also 877.3  
.6 Calpurnius Siculus  
.7

## 875 Latin oratory

- .1 Cicero, Marcus Tullius: complete works  
For Cicero's letters see 876.1
- .2 Orations
- .3 Rhetorical works
- .4 Philosophic works See also 186.3
- .5 Messala Corvinus, Marcus Valerius
- .6 Quintilian (Marcus Fabius Quintilianus)
- .7

## 876 Latin letters

- .1 Cicero, Marcus Tullius For his other works see 875.1-875.4
- .2 Pliny (Caius Plinius Caecilius Secundus)
- .3 Fronto, Marcus Cornelius
- .4

## 877 Latin satire and humor

- .1 Lucilius, Caius
- .2 Cato, Valerius
- .3 Horace See 874.5
- .4 Persius Flaccus, Aulus
- .5 Petronius Arbiter, Caius
- .6 Martial (Marcus Valerius Martialis)
- .7 Juvenal (Decimus Junius Juvenalis)

## 878 Latin miscellany

- .1 Caesar, Caius Julius
- .2 Sallust (Caius Sallustius Crispus)
- .3 Nepos, Cornelius
- .4 Livy (Titus Livius Patavinus)
- .5 Seneca, Lucius Annaeus See also 872.6 and 188.6
- .6 Tacitus, Caius Cornelius
- .7 Suetonius Tranquillus, Caius
- .8 Curtius Rufus, Quintus
- .9 Minor writers

## 879 Medieval and modern Latin

Subdivided like 820. .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory  
.6 Letters .7 Satire and humor .8 Miscellany

## 880 Greek literature

- .1 Philosophy .2 Compendis .3 Dictionaries .4 Essays on Greek literature  
.5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History  
of Greek literature

## 881 Greek poetry in general

See Dramatic, Epic, and Lyric, below

- .1 Theognis  
.2 Aratus  
.3 Lycophron  
.4 Babrius

## 882 Greek dramatic poetry

- .1 Æschylus  
.2 Sophocles  
.3 Euripides  
.4 Aristophanes  
.5 Epicharmus  
.6 Menander

## 883 Greek epic poetry

- .1 Homer  
.2 Hesiod  
.3 Apollonius Rhodius  
.4 Oppian  
.5 *Orphic poems*

## 884 Greek lyric poetry

- .1 Tyrtaeus  
.2 Sappho  
.3 Anacreon  
.4 Simonides of Ceos  
.5 Pindar  
.6 Theocritus  
.7 Bion  
.8 Callimachus  
.9 Minor Greek lyric poets



885 Greek oratory

- .1 Andocides
- .2 Lysias
- .3 Isaeus
- .4 Isocrates
- .5 Æschines
- .6 Demosthenes
- .7 Hyperides
- .8 Lycurgus
- .9 Minor Greek orators

886 Greek letters

- .1 Themistocles
- .2 Alciphron
- .3 Phalaris

887 Greek satire and humor

For comedies of Aristophanes see 882.4

- .1 Archilochus
- .2 Simonides of Samos
- .3 Hipponax

888 Greek miscellany

- .1 Herodotus
- .2 Thucydides
- .3 Xenophon
- .4 Plato See also 184.1 Platonic philosophy
- .5 Aristotle See also 185.1 Aristotelian philosophy  
Or if preferred, the works of Plato and Aristotle may be put in 184.1 and 185.1
- .6 Æsop
- .7 Lucian
- .8 Plutarch See also 186.2
- .9 Minor writers

889 Medieval and modern Greek

- .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters
- .7 Satire and humor .8 Miscellany

890 Literature of minor languages

Subdivided like 490, Philology of minor languages. If wished 1 Poetry; 2 Drama, etc., can be used after the language number; e. g. Russian drama is 891.72, Hebrew poetry 892.41, Bengali poetry 891.441

# History

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## 900 History in general

901-909 all have *History in general* as their subject, but it is treated in these various forms. A periodical on English history goes with 942, not 905, which is only for periodicals on history in general. Naught (0) in any class number in any part of the classification shows the subject to be general, not specific

- 901 Philosophy, theories, etc. History of civilization
- 902 Compendis, chronologies, charts, outlines  
For chronology as a science, see 529
- 903 Dictionaries, cyclopedias, etc.
- 904 Essays, lectures, addresses
- 905 Periodicals, historical magazines
- 906 Societies, transactions, etc.
- 907 Education, methods of teaching, writing, etc.  
See also 371.3
- 908 Polygrafy, collected works, extracts, etc.
- 909 Universal and general modern histories

For general Ancient histories, see 930

.1 A. D. 476—1199.	.5 1500—1599
.2 1200—1299	.6 1600—1699
.3 1300—1399	.7 1700—1799
.4 1400—1499	.8 1800—1899

## 910 Geografy and travels

Including topografy, maps, antiquities, descriptions, etc.

For map projection, see 526.9. See also 310 Statistics, 390 Customs and costumes

For directories, guidebooks, gazetteers, etc. of special countries or geografic sections, see under those sections, 914-919

- .1
- .2 Traveler's manuals, guidebooks
- .3 Dictionaries, gazetteers
- .4 Circumnavigations, ocean travel, shipwrecks and disasters, piratic adventures
- .5 Periodicals
- .6 Societies
- .7 Study and teaching of geografy: school map drawing  
For primary teaching of geografy see 372.89
- .8 Collections of travels, etc.
- .9 History of geografy, travels, explorations, etc.

911 Historic Growth and changes in political divisions, etc. Subdivided like 930-999

912 Maps, atlases, plans of cities, etc.  
Subdivided like 930-999

913 Antiquities, archeology, of special countries  
See also 220.93 Biblical antiquities; 340.3 Legal antiquities; 571 Prehistoric archeology; 930 Ancient history; 390 Special customs. 913 is divided like 930-999. Note that this 3 is not the ancient history 3. Keltic antiquities are 913.36, not 913.6, which is African

914 Europe

915 Asia

916 Africa

917 North America

918 South America

919 Oceanica and Polar regions

914-919 is subdivided like 940-999. Whenever these main geographic headings occur they may be subdivided exactly like History. The full list of subheads is printed only under 940-999. In assigning numbers to travels, use the history tables, *insert 1 after the initial 9*, and move the decimal point; e. g. Guide to N. Y. city is 917.471, for N. Y. city in history tables is 974.71

## 920 Biography

Including autobiography, diaries, personal narratives, eulogies, biographic dictionaries, etc. All biography is here grouped together under the main classes, and subdivided in the same way with the variations indicated below for Philosophy, Theology, and Sociology, i. e. the biography of science is divided like science itself, see 500-599. Lives of chemists are 925.4; of botanists, 925.8; of sailors, 926.56; of actors, 927.92; of the inventor of hard rubber, 926.78, etc. The rule is to give each life the number of the subject it illustrates most, or to the student of which it will be most useful.

Another plan is to scatter biography with the other books, leaving 920-928 blank, or using them only for general works, cross references, etc. This simply omits the first 2 figures 92, and the life of a botanist is 580 instead of 925.8, and goes with botanic books

Lives which will not go under any head without 'forcing' are best put in a single alphabet under the 3 figures 920 for men and under 920.7 for women

## General and collectiv by localities

Including only collected lives too general to go under any subject heading

- .01 Universal
- .02 Partial collections not limited to any special country or subject
- .03 Ancient
- .04 Of Europe
- .05 " Asia
- .06 " Africa
- .07 " North America
- .08 " South America
- .09 " Oceanica

- 920 Individual and collectiv by subjects
- .1 Bibliografers
  - .2 Librarians
  - .3 Encyclopedists
  - .4 Publishers Booksellers
  - .5 Journalists
  - .6 Academicians
  - .7 Women Collected, and individual lives not clearly going with any subject
  - .8 Eccentrics, cranks, fools, insane, etc. See also 132.1 Insanity
  - .9 Other special classes not included in 921-928, e. g. phrenologists, somnambulists, mindreaders, magicians, etc.
- 921 Of filosofy
- .1 American
  - .2 English Scotch
  - .3 German
  - .4 French
  - .5 Italian
  - .6 Spanish
  - .7 Slavic
  - .8 Scandinavian and other modern
  - .9 Ancient Oriental Patristic Scholastic See 180-189
- 922 Of religion: clergy, missionaries, preachers
- 922.1-922.88 may be subdivided for nationality like 930-999
- .1 Primitiv apostles, fathers, etc. oriental, Greek, Russian  
See 225.92 New Testament biography
  - .2 Roman catholic: popes, cardinals, etc.
  - .21 Lives of popes
  - .3 Anglican and protestant episcopal
  - .4 Continental protestant: Lutheran, Huguenot
  - .5 Presbyterian and congregational
  - .6 Baptist
  - .7 Methodist
  - .8 Unitarian, universalist and other
  - .81 Unitarian Universalist
  - .82 Campbellite
  - .83 Adventist
  - .84 New church or Swedenborgian
  - .85 Catholic apostolic
  - .86 Quaker
  - .87 Mennonite
  - .88 Shaker
  - .89 Other minor Christian sects

- 922.9 Nonchristian: atheists
  - .91 Atheists
  - .92
  - .93
  - .94 Brahman Buddhist
  - .95 Parsee
  - .96 Jews
  - .97 Mohammedan
  - .98 Mormon
  - .99 Minor nonchristian religions

## 923 Of sociology

923.1-923.8 may be subdivided for nationality, as in 930-999; e. g. the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.551

- .1 Chief rulers: kings, queens, emperors, presidents
- .2 Political science: legislativ dep't, governors, politicians, statesmen, nobles, etc. For slaves, see 326.92
- .3 Political economy: bankers, capitalists, financiers
- .4 Law: judiciary dep't, lawyers, judges
  - .41 Criminals
- .5 Administration: army and navy, civil servis
- .6 Associations and institutions Philanthropists, etc.
- .7 Education: teachers, school offisers, educators
- .8 Commerce and communication: railway officials, merchants, etc.
- .9 Manners and customs: society, travelers, discovery

- 924 Of philology
- 925 " science
- 926 " useful arts
- 927 " fine arts
- 928 " literature

See note under 920 about subdividing. It is seldom wise to use more than 4 figures, unless in a large special collection; e. g. in a music library, lives of pianists may be separated as 927.86. Professors known as specialists go with the subject taught rather than with teachers; e. g. a professor of geology 925.5; but if more prominent as an educator than as a geologist he goes in 923.7

In adding figures for the subdivisions of literature, as in 810-899, historians are put with miscellaneous authors as 8, i. e. Gibbon's life is 928.28; 928.31 is life of a German poet, and 928.691 is life of a Portuguese poet

929	<b>Genealogy and heraldry</b>	
.1	<b>Genealogies</b>	
.2	<b>Families</b>	
.3	<b>Registers of births, baptisms, marriages, deaths</b>	
.4	<b>Names of persons and places</b>	
.5	<b>Epitafs</b>	
.6	<b>Heraldry</b>	
.7	<b>Peerage, precedence, titles of honor</b>	
.71	<b>Orders of Knighthood</b>	
.711	St John of Jerusalem	
.712	Templars	
.713	Teutonic knights	
.714	Garter	
.715	Golden Fleece	
.716	Holy Ghost	
.717		
.718		
.719		
.72	<b>Great Britain and Ireland</b>	
.721	Peerage	
.722	Baronetage	
.723	Knightage	
.724	Dignities, precedence	
.725	Landed gentry	
.726	Visitations	Alfabeted by counties
.73	<b>Germany</b>	} Divided like 929.72
.74	<b>France</b>	
.75	<b>Italy</b>	
.76	<b>Spain</b>	
.77	<b>Russia</b>	
.78	<b>Scandinavia</b>	
.79	<b>Minor countries</b>	
	Divided like 949; minor countries outside Europe are put together in 929.799	
.8	<b>Coats of arms, crests</b>	
.9	<b>Flags</b>	

930 **Ancient history** 476 A. D.

- 931 China
- 932 Egypt
- 933 Judea
- 934 India
- 935 Medo-Persia

- .1 Chaldaea
- .2 Assyria Nineveh
- .3 Media
- .4 Babylonia
- .5 Persia
- .6 Parthia
- .7 New Persian or Sassanian
- .8 Mesopotamia
- .9 Susiana

936 Kelts

937 Rome Italy

Period divisions

.01	Kings	753-509 B. C.
.02	Republic	509- 31 "
.03	Conquest of Italy	509-264 "
.04	Punic wars	264-146 "
.05	Civil strife	146- 31 "
.06	Empire	31 B. C.-476 A. D.
.07	Constitutional	31 " -284 "
	Augustus-Illyrian emperors	
.08	Absolute	284-476 "
.09	Division of empire	395-476 "
	Barbarian conquests and fall of western empire	

Geografic divisions

- .1 Liguria
- .2 Gallia Cisalpina
- .3 Venetia Istria
- .4 Umbria Picenum Sabini, etc.
- .5 Etruria
- .6 Latium, Rome
- .7 Southern Italy: Campania, Samnium, Apulia, etc.
- .8 Sicily, Syracuse
- .9 Sardinia Corsica

Period divisions

.01	Mythical age	-776 B. C.
.02	Growth of states	775-500 "
.03	Persian wars Union of Greece	500-479 "
.04	Athenian supremacy	479-431 "
.05	Peloponnesian war	431-404 "
.06	Spartan and Theban supremacy	404-362 "
.07	Macedonian supremacy	362-323 "
.08	Roman conquest of Greece	323-146 "
.09	Greek subjection	146 B. C.-323 A. D.
	Byzantine empire is put 949.5	

Geographic divisions

.1	Macedonia					
.2	Thessaly	Epirus				
.3	Acarnania	Ætolia	Locris	Doris	Phocis	Ithaca
.4	Boeotia	Megaris	Euboea			
.5	Attica					
.6	Peloponnesus					
.7	Corinthia	Achaia				
.8	Elis	Arcadia	Argolis			
.9	Messenia	Laconia	Sparta			

939 Minor countries

.1	Grecian archipelago							
	.11 Northern islands: Thasos, Lemnos, etc.	.12 Lesbos	.13 Chios,					
	etc.	.14 Samos, etc.	.15 Cyclades	.16 Rhodes, etc.				
	.17 Carpathos	.18 Crete						
.2	Western Asia Minor							
	.21 Mysia, Troas	.22 Lydia	.23 Ionia	.24 Caria				
	.25 Bithynia	.26 Phrygia	.27 Pisidia	.28 Lycia				
	.29 Pamphylia							
.3	Eastern Asia Minor							
	.31 Paphlagonia	.32 Galatia	.33 Pontus	.34 Cappadocia				
	.35 Cilicia	.36 Commagene	.37 Cyprus					
.4	Syria							
	.41 Upper Syria	.42 Coele Syria	.43 Palmyra	.44 Phenicia,				
	Tyre	.45 Palestine: Hittites, Philistines, etc.	.46 Edom,					
	Moab, Bashan, etc.	.47 Arabia	.48 Arabia Petraea, Sinai					
.5	Northwestern Asia							
	.51 Scythia	.52 Sarmatia Asiatica	.53 Colchis	.54 Iberia				
	.55 Armenia	.56 Albania						
.6	South Central Asia							
	.61 Sogdiana	.62 Hyrcania	.63 Margiana	.64 Bactriana				
	.65 Ariana							
.7	Minor African countries							
	.71 Mauritania	.72 Numidia	.73 Africa Propria, Carthage					
	.74 Syrtica Regio	.75 Cyrenaica	.76 Marmarica	.77 Libya,				
	Gaetulia	.78 Aethiopia						
.8	Southeastern Europe							
	.81 Sarmatia Europa	.82 Dacia	.83 Vindelicia	.84 Rhaetia				
	.85 Noricum	.86 Pannonia	.87 Illyria	.88 Moesia				
	.89 Thracia							



# Modern history

## 940 Europe

From the fall of Western empire (Rome) A. D. 476

- |    |  |           |
|----|--|-----------|
| .1 | <b>Medieval Europe</b>                                       | 476-1453  |
|    | For Byzantine empire see 949.5                               |           |
| .2 | <b>Rise of new nations</b>                                   | 476-800   |
| .3 | <b>Age of feudalism</b>                                      | 800-1100  |
|    | See also 321.3   |           |
|    | Charlemagne 768-814  |           |
|    | Norman conquests   |           |
| .4 | <b>Age of chivalry</b>                                       | 1100-1453 |
|    | The crusades To fall of Eastern empire (Constantinople) 1453 |           |
|    | For church history see 270.4-270.5                           |           |
| .5 | <b>Modern Europe</b>   | 1453——    |
| .6 | <b>Renaissance period</b>                                    | 1453-1517 |
|    | Discoveries and inventions                                   |           |
| .7 | <b>Age of the Reformation</b>                                | 1517-1789 |
|    | The 30 years war 1618-48                                     |           |
| .8 | <b>Napoleonic period</b>                                     | 1789-1815 |
| .9 | <b>Current history</b>                                       | 1815——    |

## 941 Scotland

### Period divisions

- |     |                                 |           |
|-----|---------------------------------|-----------|
| .01 | Gaelic period                   | -1097     |
| .02 | English period                  | 1097-1314 |
|     | Struggle for national freedom   |           |
| .03 | Independent kingdom             | 1314-1424 |
| .04 | The Jameses                     | 1424-1557 |
| .05 | Reformation                     | 1557-1603 |
| .06 | Union of crowns and parliaments | 1603-1707 |
| .07 | Hanover                         | 1707-1837 |
| .08 | Victorian                       | 1837-     |
| .09 |                                 |           |

### Geographic divisions

- |    |                               |                      |                           |                           |                 |
|----|-------------------------------|----------------------|---------------------------|---------------------------|-----------------|
| .1 | <b>Northern Scotland</b>      |                      |                           |                           |                 |
|    | .11 Shetland                  | .12 Orkney           | .13 Caithness             | .14 Sutherland            |                 |
|    | .15 Cromarty                  | .16 Ross             | .17 Hebrides              |                           |                 |
| .2 | <b>North central Scotland</b> |                      |                           |                           |                 |
|    | .21 Inverness                 | .22 Nairn            | .23 Elgin                 | .24 Banff                 | .25 Aberdeeen   |
|    | .26 Kincardine                |                      |                           |                           |                 |
| .3 | <b>South central Scotland</b> |                      |                           |                           |                 |
|    | .31 Forfar                    | .32 Perth            | .33 Fife                  | .34 Kinross               | .35 Clackmannan |
|    | .36 Sterling                  | .37 Dunbarton        | .38 Argyll                | .39 Bute                  |                 |
| .4 | <b>Southern Scotland</b>      |                      |                           |                           |                 |
|    | .41 Renfrew                   | .42 Ayr              | .43 Lanark                | .44 Linlithgow, Edinburgh |                 |
|    | .45 Haddington, Berwick       | .46 Peebles, Selkirk |                           |                           |                 |
|    | .47 Roxburgh                  | .48 Dumfries         | .49 Kirkcudbright, Wigton |                           |                 |

## 941.5 Ireland

### Period divisions

.51	Early history	-1086
.52	Separate kingdoms	1086-1172
	Conquest by Henry 2	
.53	Plantagenet	1172-1399
.54	Lancaster and York	1399-1485
.55	Tudors	1485-1603
.56	Stuarts	1603-91
	Closing with treaty of Limerick	
.57	Hanover	1691-1801
	Closing with the union	
.58	19th century	1801-1900
.591	Early 20th century	

### Geografic divisions

.6	<b>Ulster</b>				
	.61 Antrim	.62 Londonderry	.63 Donegal	.64 Tyrone	
	.65 Down	.66 Armagh	.67 Monaghan	.68 Fermanagh	
	.69 Cavan				
.7	<b>Connaught</b>				
	.71 Leitrim	.72 Sligo	.73 Mayo	.74 Galway	.75 Roscommon
.8	<b>Leinster</b>				
	.81 Longford, West Meath	.82 Meath, Louth	.83 Dublin		
	.84 Wicklow	.85 Kildare	.86 King's co.	.87 Queen's co.	
	.88 Carlow, Wexford	.89 Kilkenny			
.9	<b>Munster</b>				
	.91 Waterford	.92 Tipperary	.93 Clare	.94 Limerick	
	.95 Cork	.96 Kerry			

## 942 England

### Period divisions

For specially minute work the 6th figure printed for each sovereen may be used; e. g. Henry 7 is 942.051

.01	<b>Anglo-Saxon</b>				<b>B. C. 55-A. D. 1066</b>
	Prehistoric, Roman, British, Danish				
.02	<b>Norman</b>				<b>1066-1154</b>
	1 William 1 1066-87	2 William 2 1087-1100	3 Henry 1 1100-35	4 Stephen 1135-54	
.03	<b>Plantagenet</b>				<b>1154-1399</b>
	1 Henry 2 1154-89	2 Richard 1 1189-99	3 John 1199-1216	4 Henry 3 1216-72	5 Edward 1 1272-1307
	6 Edward 2 1307-27	7 Edward 3 1327-77	8 Richard 2 1377-99		

- 942.04 **Lancaster and York** 1400-85  
 1 Henry 4 1399-1413 2 Henry 5 1413-22 3 Henry 6  
 1422-61 4 Edward 4 1461-83 5 Edward 5 1483 6 Rich-  
 ard 3 1483-85
- .05 **Tudor** 1485-1603  
 1 Henry 7 1485-1509 2 Henry 8 1509-47 3 Edward 6  
 1547-53 4 Mary 1553-58 5 Elizabeth 1558-1603 See also 272.7
- .06 **Stuart** 1603-1714  
 1 James I 1603-25 2 Charles I 1625-49 3 Commonwealth  
 1649-53 4 Oliver Cromwell 1653-58 5 Richard Cromwell  
 1658-59 6 Charles 2 1660-85 7 James 2 1685-88 8 Wil-  
 liam 3 1689-1702 9 Anne 1702-14
- .07 **Hanover** 1714-1837  
 1 George I 1714-27 2 George 2 1727-60 3 George 3 1760-  
 1820 4 George 4 1820-30 5 William 4 1830-37
- .08 **Later Hanoverian** 1837-  
 1 Victoria 1837-1901 2 Edward 7 1901-10 3 George 5 1910-

### Geografic divisions

- .1 **Middlesex London**
- .2 **Southeastern**  
 .21 Surrey .23 Kent .25 Sussex .27 Hants .28 Isle of  
 Wight .29 Berks
- .3 **Southwestern**  
 .31 Wilts .33 Dorset .34 Channel islands .35 Devon .37 Corn-  
 wall .38 Somerset
- .4 **West Midland**  
 .41 Gloucester .43 Monmouth .44 Hereford .45 Salop  
 .46 Stafford .47 Worcester .48 Warwick
- .5 **North and South Midland**  
 .51 Derby .52 Notts .53 Lincoln .54 Leicester, Rutland  
 .55 Northampton .56 Huntington, Bedford .57 Oxford, Buck-  
 ingham .58 Hertford .59 Cambridge
- .6 **Eastern**  
 .61 Norfolk .64 Suffolk .67 Essex
- .7 **Northwestern and Yorkshire**  
 .71 Cheshire .72 Lancashire .74 Yorkshire
- .8 **Northern**  
 .81 Durham .82 Northumberland .85 Cumberland .88 West-  
 moreland .89 Isle of Man
- .9 **Wales**  
 .91 Anglesey .92 Carnarvon, Merioneth .93 Denbigh, Flint  
 .94 Montgomery .95 Cardigan .96 Radnor, Brecknock  
 .97 Glamorgan .98 Carmarthen .99 Pembroke

# 943 Germany and Austria

## Period divisions

- .01 Formative period**  
 Wars with Rome Charlemagne 800-814 Louis I 814-840  
 Lothaire I 840-843
- .02 Empire before the reformation**  
 1 Carolingian 843-911: Louis 2 843-876 Charles 2 876-877  
 Charles 3 877-887 Arnulf 887-899 Louis 3 900-911  
 2 House of Franconia: Conrad I 911-918 House of Saxony,  
 919-1024: Henry I 919-936 Otto I 936-973 Otto 2 973-983  
 Otto 3 983-1002 Henry 2 1002-24  
 3 House of Franconia 1024-1125: Conrad 2 1024-39 Henry 3  
 1039-56 Henry 4 1056-1106 Henry 5 1106-25 House of  
 Saxony: Lothaire 2 1125-37  
 4 House of Hohenstaufen 1137-97: Conrad 3 1138-52 Fred-  
 erick I 1152-90 Henry 6 1190-97  
 5 House of Hohenstaufen and Interregnum 1198-1272: Philip  
 1198-1208 Otto 4 1208-12 Frederick 2 1212-50 Conrad 4  
 1250-54 William of Holland 1254-56 Richard of Cornwall  
 1256-72  
 6 Houses of Hapsburg, Luxemburg, etc. 1273-1378: Rodolph I  
 1273-91 Adolphus 1291-98 Albert I 1298-1308 Henry 7  
 1308-13 Louis 4 1313-47 Charles 4 1347-78  
 7 Interregnum 1378-1437: Wenceslaus 1378-1400 Rupert  
 1400-10 Sigismund 1410-37  
 8 Albert 2 1438-39 Frederick 3 1440-93  
 9 Maximilian I 1493-1519
- .03 Reformation to 1618** 1517-1618  
 1 Charles 5 1519-1556 2 Ferdinand I 1556-64 3 Maxi-  
 milian 2 1564-76 4 Rodolph 2 1576-1612 5 Matthias  
 1612-19
- .04 Disintegration** 1618-1705  
 1 Thirty years' war 1618-48 2 Ferdinand 2 1619-37 3 Fer-  
 dinand 3 1637-57 4 Leopold I 1658-1705
- .05 Rise of Prussia** 1705-89  
 1 Joseph I 1705-11 2 Charles 6 1711-40 3 1740-42  
 4 Charles 7 1742-45 5 Francis I 1745-65 6 Seven years war  
 1756-63 7 Joseph 2 1765-90
- .06 Napoleonic wars** 1789-1815  
 Leopold 2 1790-92 Francis 2 1792-1806 Confederation of  
 the Rhine 1806-15
- .07 Reorganization** 1815-66
- .08 New German empire** 1866-  
 1 North German confederation 1866-71 2 Franco-German war  
 1870-71 3 William I 1871-88 4 Frederick 1888 Wil-  
 liam 2 1888-

## Geographic divisions of Germany and Austria

- .1 Prussia and Northern Germany**  
 .11 East Prussia .12 West Prussia .13 Posen .14 Silesia  
 .15 Brandenburg .16 Pomerania .17 Mecklenburg and  
 Lubeck .18 Prussian Saxony .19 Anhalt
- .2 Central Germany**  
 .21 Saxony .22 Thuringia .23 Saxe-Weimar .24 Saxe-  
 Altenburg .25 Saxe-Gotha-Coburg .26 Saxe-Meiningen  
 .27 Schwartzburg .28 Reuss

- 943.3 **Bavaria**  
 .31 Upper Franconia .32 Middle Franconia .33 Lower Franconia .34 Upper Palatinate .35 Lower Bavaria  
 .36 Upper Bavaria .37 Suabia
- .4 **Southern Germany**  
 .41 Hesse Darmstadt .42 Rhenish Prussia .43 Rhenish Bavaria .44 Alsace .45 Lorraine .46 Baden .47 Wurtemberg .48 *Black Forest and Danube* .49 Hohenzollern
- .5 **Northwest Germany**  
 .51 Schleswig-Holstein and Hamburg .52 Oldenburg and Bremen .53 Hanover .54 Brunswick .55 Lippe .56 Westphalia .57 Waldeck .58 Hesse-Nassau
- 943.6 **Austria**  
 .61 Lower Austria .62 Upper Austria .63 Salzburg .64 Tyrol .65 Styria .66 Carinthia .67 Carniola .68 Istria .69 Dalmatia
- .7 **Bohemia, etc.**  
 .71 Bohemia .72 Moravia .73 Silesia .74 Galicia .75 Bukowina
- .8 **Poland** Including history before the division
- .9 **Hungary, etc.**  
 .91 Hungary .92 Transylvania .93 Slavonia .94 Croatia, Fiume .95 Bosnia .96 Herzegovina

## 944 France

### Period divisions

- .01 **Early history** -987  
 Ancient Celts -59 B. C. Roman dominion 59 B. C.-418 A. D.  
 Merovingian dynasty 428-752 Carolingian 752-987
- .02 **Capet and Valois** 987-1589  
 House of Capet  
 1 Hugh Capet 987-996 Robert 2 996-1031 Henry 1 1031-60  
 2 Philip 1 1060-1108 Louis 6 1108-37 Louis 7 1137-80  
 3 Philip 2 1180-1223 Louis 8 1223-26 Louis 9 1226-70  
 4 Philip 3 1270-85 Philip 4 1285-1314 Louis 10 1314-16  
 John 1 1316 Philip 5 1316-22 Charles 4 1322-28  
 House of Valois  
 5 Philip 6 1328-50 John 2 1350-64 Charles 5 1364-80  
 6 Charles 6 1380-1422 Charles 7 1422-61  
 7 Louis 11 1461-83 Charles 8 1483-98 Louis 12 1498-1515  
 House of Angouleme  
 8 Francis 1 1515-47 Henry 2 1547-59  
 9 Francis 2 1559-60 Charles 9 1560-74 Henry 3 1574-89
- .03 **Bourbon** 1589-1789  
 1 Henry 4 1589-1610 2 Louis 13 1610-43 3 Louis 14 1643-1715 4 Louis 15 1715-74 5 Louis 16 1774-89
- .04 **Revolution** 1789-1804  
 1 National assembly 1789-92 2 First republic 1792-99 3 Convention 1792-95 4 Reign of terror, May 1793-July 1794  
 5 Directory 1795-99 6 First consulate, Napoleon 1799-1804
- .05 **First empire** 1804-1815  
 Napoleon 1 1804-14 Louis 18 1814-15 The hundred days  
 March 20-June 29, 1815

- 944.06 **Restoration** 1815-1848  
 1 Louis 18 1815-24 2 Charles 10 1824-30 3 Louis Philippe  
 1830-48
- .07 **Second republic and second empire** 1848-1870  
 Revolution of 1848 Second republic, Louis Napoleon, pres.  
 1848-52 Napoleon 3 1852-70
- .08 **Third republic** 1870-  
 Franco-German war, Government of national defense 1870-71  
 National assembly 1871 Presidency of Thiers 1871-73  
 McMahon 1873-79 Grévy 1879-87 Sadi-Carnot 1887-94  
 Casimir Périer 1894-95 Faure 1895-99 Loubet 1899-1906  
 Fallières 1906-13 Poincaré 1913-

### Geographic divisions of France

- .1 **Brittany Maine Anjou**  
 .11 Finistère .12 Côtes du Nord .13 Morbihan .14 Loire  
 Inférieure .15 Ille et Vilaine .16 **Maine:** Mayenne  
 .17 Sarthe .18 **Anjou:** Maine et Loire
- .2 **Normandy Picardy**  
 .21 Manche .22 Calvados .23 Orne .24 Eure .25 Seine  
 Inférieure .26 **Picardy:** Somme .27 **Artois:** Pas de Calais  
 .28 Nord
- .3 **Champagne Ile de France Lorraine**  
 .31 Ardennes .32 Marne .33 Aube Haute Marne .34 **Ile  
 de France:** Aisne .35 Oise .36 Seine et Oise, Paris  
 .37 Seine et Marne .38 **Lorraine:** Meuse, Moselle  
 .39 Meurthe, Vosges
- .4 **Burgundy Franche Comté Savoy**  
 .41 Yonne .42 Côte d'Or .43 Saône et Loire .44 Ain  
 .45 **Franche Comté:** Haute Saône, Belfort .46 Doubs .47 Jura  
 .48 **Savoy:** Savoie .49 Haute Savoie
- .5 **Orléans, etc. Auvergne**  
 .51 Eure et Loir .52 Loiret .53 Loir et Cher .54 **Touraine:**  
 Indre et Loir .55 **Berry:** Indre, Cher .56 **Nivernais:**  
 Nièvre .57 **Bourbonnais:** Allier .58 **Lyonnais:** Loire,  
 Rhône .59 **Auvergne:** Puy de Dôme, Cantal
- .6 **Poitou Limousin**  
 .61 Vendée .62 Deux Sèvres .63 Vienne .64 Charente  
 Inférieure .65 Charente .66 **Limousin:** Haute Vienne  
 .67 Corrèze .68 **Marche:** Creuse
- .7 **Guienne Gascony**  
 .71 Gironde .72 Dordogne .73 Lot .74 Aveyron .75 Tarn  
 et Garonne .76 Lot et Garonne .77 **Gascony:** Landes,  
 Gers .78 Hautes Pyrénées .79 **Béarn:** Basses Pyrénées
- .8 **Languedoc**  
 .81 Haute Loire, Lozère .82 Ardèche .83 Gard .84 Hérault  
 .85 Tarn .86 Haute Garonne .87 Aude .88 **Foix:** Ariège  
 .89 Pyrénées Orientales
- .9 **Provence Dauphiny**  
 .91 Bouches du Rhône .92 Vaucluse .93 Var .94 Alpes  
 Maritimes .95 Basses Alpes .96 **Dauphiny** .97 Hautes  
 Alpes .98 Drôme .99 Isère

# 945 Italy

## Period divisions

.01	Gothic and Lombard kingdoms	476-774
.02	Frankish emperors	774-961
.03	German emperors	962-1122
	Hildebrand and papal supremacy	
.04	Age of the communes	1100-1300
	Free cities      Strifes of Guelphs and Ghibelines	
.05	Age of the despots	1300-1492
.06	Age of invasions	1492-1527
.07	Spanish-Austrian ascendancy	1527-1796
.08	Struggle for independence	1796-1870
.09	United Italy	1870-
	Victor Emanuel, Cavour, Garibaldi	

## Geografic divisions of Italy

.1	Piedmont and Liguria		
.2	Lombardy		
.3	Venetia		
.4	Emilia		
.5	Tuscany		
.6	Marches, Umbria and Latium		
.7	Naples		
	.71 Abruzzo and Molise	.72 Campania	.73 Napoli
	.74 Salerno	.75 Apulia	.76 Lecce, Terra di Otranto
	.77 Basilicata, Potenza	.78 Calabria	.79 Reggio di Calabria
.8	Sicily	Malta	
.9	Sardinia and Corsica		

# 946 Spain

## Period divisions

.01	Early history	Roman dominion	Gothic kingdom	— 711
.02	Moorish kingdom			711-1479
.03	Ferdinand 5 and Isabella			1479-1516
	Discovery			
	Expulsion of the Moors			
.04	Charles 1 and Philip 2			1516-98
	Inquisition	War with the Netherlands	Armada	Charles 1
	(5 of Germany) 1516-56	Philip 2 1556-98		
.05	Philip 3 — Charles 4			1598-1808
	Degeneration	1 Philip 3 1598-1621	2 Philip 4 1621-65	
	3 Charles 2 1665-1700	4 House of Bourbon:	5 Philip 5 1700-46	6 Ferdinand 6 1746-59
	7 Charles 3 1759-88	8 Charles 4 1788-1808		
.06	Peninsular war			1808-14
	Joseph Bonaparte			
.07	Bourbon restoration			1814-68
	Attempts at reform			
	Ferdinand 7 1814-33	Isabella 2 1833-68		
.08	Revolution and 2d restoration			1868—
	Revolution of 1868-70	Amadeus 1870-73	Republic 1873-75	
	Alfonso 12 1875-85	Alfonso 13 1886-		

### Geografic divisions of Spain

946.1	Galicia	Asturias		
.2	Leon	Estramadura		
.3	Old Castile			
.4	New Castile			
.5	Aragon			
.6	Basque provinces			
.7	Catalonia	Balearic Isles	Valencia	Murcia
.8	Andalusia	Canary Isles		
.9	Portugal			
	.98	Madeira	.99	Azores

### 947 Russia

#### Period divisions

.01	Primitiv Russia	—862
.02	Varangian kingdom	862-1237
	Conversion to Christianity	
.03	Mongolian invasion	1237-1462
	Civil wars	
.04	Ivan 3-Ivan 5	1462-1689
	Origin of serfdom	
.05	Peter the Great	1689-1725
	Wars with Sweden and Turkey	
.06	Catharine 1-Catharine 2	1725-96
	Partition of Poland	
.07	Paul 1-Nicholas 1	1796-1855
	War with Napoleon	
	Insurrection of Poland	
	Crimean war	See also 942.03, 944.07, 945.03, 949.6
.08	Alexander 2	1855-81
	Emancipation of the serfs	
	Turko-Russian war	
	Alexander 3	1881-94
	Nicholas 2	1894-

#### Geografic divisions of Russia

.1	Finland	Lapland
.2	Northern Great Russia	
	Archangel, Vologda, Olonetz, Novgorod	
.3	Southern Great Russia	
.4	Baltic provinces	
	Courland, Livonia, Esthonia, St Petersburg	
.5	Russian Poland	
.6	West Russia	
.7	Little Russia	South Russia
.8	East Russia	
.9	Caucasia	



948 Norway Sweden Denmark

Period divisions

.01	Legendary period	-800
.02	Consolidation Migration	801-1397
	Introduction of Christianity	
	Discovery of Iceland, Greenland, and America	
	Conquest of Britain and Normandy	
.03	Union of the 3 kingdoms	1397-1523
	Civilization Foren relations	
.04	The reformation	1523-1648
	Edict of toleration 1527	
	30 years war Gustavus Adolphus	
.05	Decline	1648-1792
	Wars vs Denmark, Poland, Russia	
	Political changes	
.06	Napoleonic wars	1792-1818
	Union of Norway and Sweden 1814	
.07	Charles 14 (Bernadotte)	1818-
	Peace Internal reform	

.08

Geografic divisions

- .1 Norway
- .2 Christiania
- .3 Christiansand Bergen
- .4 Hamar Throndhjem Tromso
- .5 Sweden
- .6 Gothland
- .7 Svealand
- .8 Norrland
- .9 Denmark

949 Minor countries of Europe

- .1 Iceland Faroe Islands
  - 01 Commonwealth -1264 02 Medievalism 1264-1551 03 Absolute rule, Decay 1551-1848 04 Modern Iceland 1848-
- .2 Netherlands
  - 01 Early history -1477 02 Austrian dominion 1477-1566 Wars for independence 1566-1648 04 Age of prosperity 1648-1795 05 Revolutionary 1795-1830 06 19th century 1830-1900 07 20th century 1901-
- .3 Belgium
- .4 Switzerland
  - 01 Early history -1300 02 Struggle for independence 1300-1499 03 Reformation 1499-1648 04 Period of tranquillity 1648-1789 05 Period of revolution 1789-1815 06 19th century 1815-1900 07 20th century 1901-

- 949.5 Byzantine empire and modern Greece
- 01 Greek revival 323-716
    - Constantine the great-Theodosius 3
  - 02 Byzantine prosperity 716-1057
    - Leo 3-Michael 6
  - 03 Byzantine decline 1057-1204
    - Isaac 1-Latin conquest of Constantinople
  - 04 Greek survival 1204-1453
    - Constantinople taken by the Turks, 1453
  - 05 Turkish power 1453-1821
  - 06 Greek independence 1821-
- .6 Turkey in Europe .61 Constantinople
- .7 Servia Bulgaria Montenegro
- .8 Rumania: Wallachia, Moldavia
- .9 Ilands of Greek archipelago
- Divided like 939.1

## 950 Asia

### 951 China

- .1 N. E. China, Peking
- .2 S. E. China, Canton, Hong Kong, Formosa
- .3 S. W. China
- .4 N. W. China
- .5 Tibet
- .6 East Turkestan
- .7 Mongolia
- .8 Manchuria
- .9 Korea

### 952 Japan

### 953 Arabia

- .1 Sinai
- .2 Hejaz, Mecca
- .3 Yemen
- .4 Hadramaut, Mahrah
- .5 Oman
- .6 Hasa
- .7 Dahna
- .8 Nejd
- .9 Syrian desert

### 954 India

- .1 Bengal, Orissa, Assam, Bhotan
- .2 Northwest provinces, Oudh, Nepal
- .3 Central provinces
- .4 Rajputana
- .5 Punjab, Delhi, Lahore
- .6 Kashmir
- .7 Bombay, Sind, Baroda
- .8 Madras, Mysore, Travancore, Ceylon
- .9 Hyderabad

### 955 Persia

### 956 Turkey in Asia

See also 949.6

- .1 Khodavendikyar
- .2 Aidin, Smyrna
- .3 Kastamuni, Angora
- .4 Konieh, Adana, Cyprus
- .5 Trebizond, Sivas
- .6 Erzerum, Diarbekr, Karput
- .7 Bagdad, Kurdistan
- .8 Aleppo
- .9 Damascus, Phenicia, Palestine

### 957 Siberia

### 958 Afghanistan Turkestan Baluchistan

- .1 N. E. Afghanistan, Kabul
- .2 South Afghanistan, Kandahar
- .3 N. W. Afghanistan, Herat
- .4 Turkistan
- .5 Kiva
- .6 Bokhara
- .7 Ferghana or Khokan
- .8 Baluchistan

### 959 Farther India

- .1 British Burma
- .2 Burma
- .3 Siam
- .4 Laos
- .5 Lower Siam, Malay peninsula
- .6 Cambodia
- .7 French Cochin China
- .8 Anam
- .9 Tonkin

960 **Africa**

961 **North Africa**

- .1 Tunis .2 Tripoli .3 Fezzan

962 **Egypt**

- .1 Lower Egypt, Alexandria, Cairo .2 Middle Egypt .3 Upper Egypt, Thebes .4 Nubia .5 Dongola .6 Egyptian Sudan, Kartum .7 Darfur .8 Kordofan .9 Sennaar

963 **Abyssinia**

964 **Morocco**

965 **Algeria**

966 **North Central Africa**

- .1 Sahara .2 Sudan .3 Senegambia .4 Sierra Leone .5 Upper Guinea .6 Liberia .7 Ashanti .8 Dahomey .9 Gold Coast

967 **South Central Africa**

- .1 Lower Guinea .2 Loango, Congo .3 Angola, Benguela .4 Interior .5 Congo basin .6 Central lake region .7 Somali .8 Zanzibar .9 Mozambique

968 **South Africa**

- .1 Sofala .2 Transvaal .3 Zululand .4 Natal .5 Orange Free State .6 Kaffraria .7 Cape Colony .8 West Coast .9 Interior

969 **Madagascar Mauritius**

# 970 North America

- .1 Indians, aborigines .2 Lives of Indians .3 Special tribes  
.4 Special states .5 Government relation and treatment .6 Special subjects: character, civilization, agriculture, etc.  
See 371.95 Education; 572.97 Ethnology; 497 Languages

# 971 Canada British America

General works on Canada under British rule  
For histories of special periods see 971.01-.054; of special provinces see 971.1-.9  
For constitutional history see 342.71

## Period subdivisions

For works not limited to any of the territorial subdivisions .1-.9 but dealing with a limited period

Class archives with their periods and segregate them if wisht by booknumbers that will automatically locate them ahed of other histories having the same class number: e.g. A1-A9 if Cutter numbers are used for other works; Aa-Az with Cutter-Sanborn numbers

- .01 French regime 1497-1763**  
From earliest time till cession to England
- .011 Discovery and early settlement 1497-1632**  
Early explorations along Atlantic seaboard 1497-1533. Discovery and occupation of St Lawrence 1534-43. Rise of furtrade 1544-1612. Permanent colonization 1613-32
- .016 Extension of English rule 1632-1763**  
Treaty of St Germain-en-Laye 20 Mar. 1632
- .018 Struggle with England for supremacy**  
Peace of Utrecht 1713-Peace of Paris 1763. Seven years war 1755-63; in United States cald French and Indian war. British supremacy dates actually from fall of Quebec, 1759; formally from peace of Paris, 10 Feb. 1763
- .02 End of 7 years war to constitutional act 1791**  
Conspiracy of Pontiac 1763-64  
Quebec act 1774
- .024 American revolution United Empire loyalists**  
Canadian libraries will class here United Empire loyalists, but works on the revolution 1775-83 are better put in 973.3
- .03 1792 to Union act 1841**  
See also 971.3 Ontario and 971.4 Quebec
- .034 War of 1812**  
1812-15 In United States cald also 2d war for independence  
Better clast in 973.52 (United States history)
- .038 Rebellion 1837-38**
- .039 Union act 10 Feb. 1840**  
Passage of Union act, closing the period under the Constitutional act. See also constitutional history, 342.719
- .04 Union 1841 to Confederation 1867**  
Beginning with operation of Union act; Canadian parliament at Ottawa 13 June 1841. Class clergy reservs agitation in 971.3 Ontario; abolition of seignories in 971.4 Quebec
- .048 Fenian invasions**
- .049 British North America act 29 March 1867**
- .05 Dominion of Canada 1867-**  
Canada under British North America act
- .051 Red river (Riel's 1st) rebellion 1870**
- .054 Northwest (Riel's 2d) rebellion 1885**

## Geografic subdivisions of Canada

- 971.1 **British Columbia**
- .2 **Northwest Territories**
  - Including former Hudson Bay territory
- .21 **Yukon**
  - Klondike region Dawson (city)
- .22 Mackenzie
- .23 **Alberta**
- .24 **Saskatchewan**
- .26 Keewatin
- .27 **Manitoba**
- .28 Ungava
- .29 **Franklin**
  - See also 998 Arctic region
- .3 **Ontario**
  - For St Lawrence river see 971.4
  - Formerly also Upper Canada or Canada West
  - See also 971.4 note Class here Clergy reserves
- .31 **Northwestern**
  - North shore of Lake Superior and Lake Huron; Georgian bay
- .311 **Rainy River district**
  - Lake of the Woods Rainy lake
- .312 **Thunder Bay district**
  - 5 Fort William
- .313 **Algoma district**
  - Sault Ste Marie
  - 5 Manitoulin island
- .314 **Nipissing district**
- .315 **Parry Sound Maganetawan districts**
- .316 **Muskoka Lake of Bays district**
- .317 **Simcoe**
- .318 **Grey Owen sound (or Sydenham)**
- .32 **Western**
  - East shore of Lake Huron
- .321 **Bruce**
- .322 **Huron**
- .323 **Perth**
- .324
- .325 **Middlesex**
- .326 **London (city)**
- .327 **Lambton**
- .33 **Southwestern**
  - North shore of Lake Erie
- .331 **Essex**
- .332 **Windsor (city)**
- .333 **Kent**
- .334 **Elgin**
- .335 **St Thomas (city)**
- .336 **Norfolk**
- .337 **Haldimand**
- .338 **Welland**
- .34 **West central**
- .341 **Dufferin**
- .342 **Wellington**
- .343 **Guelph (city)**
- .344 **Waterloo**
- .345 **Berlin (city)**
- .346 **Oxford**
- .347 **Brant**
- .348 **Brantford (city)**

971.35

**Southern**

West and North shore of Lake Ontario

- .351 Lincoln  
St Catherines (city)
- .352 Wentworth  
Hamilton (city)
- .353 Halton Peel
- .354 York  
I Toronto (city)
- .355 Ontario
- .356 Durham
- .357 Northumberland
- .358 Hastings  
7 Prince Edward  
Lennox and Addington

**Central**

- .361 Haliburton
- .362
- .363
- .364 Victoria
- .365
- .366
- .367 Peterborough
- .368 Peterborough (city)
- .369
- .37

**Southeastern**

St Lawrence river counties

- .371 Frontenac
- .372 Kingston (city)
- .373 Leeds  
Rideau lakes and canal
- .374 Grenville
- .375 Dundas
- .376 Stormont
- .377 Glengarry
- .378
- .379
- .38

**Northeastern**

Ottawa river counties

- .381 Renfrew
- .382 Lanark
- .383 Carleton  
Ottawa (city)
- .384
- .385 Russell
- .386 Prescott
- .387
- .388
- .389
- .39
- .391
- .392
- .393
- .394
- .395
- .396
- .397
- .398
- .399

971.4 **Quebec St Lawrence river**

Lower Canada or Canada East

From its cession by France to England in 1763 all Canada was one colony, the Province of Quebec, till 1791. In 1791 it was divided by the constitutional act into 2 provinces: Upper Canada (Ontario) and Lower Canada (Quebec). By the union act, 1840, the 2 provinces were reunited as the Province of Canada; and in 1867 by the British North America act again divided into the provinces of Ontario and Quebec.

- .41 **Northern**
- .411 Mistassini
- .412 Abitibi
- .414 Lake St John
- .416 Chicoutimi
- .417 Saguenay
  - Anticosti iland
- .419 Ashuanipi
- .42 **Western**
  - Ottawa river counties
- .421 Pontiac
- .422 Ottawa (former county)
  - 1 Wright
  - 2 Hull (city)
  - 5 Labelle
- .423 Argenteuil
- .424 Terre Bonne
- .425 Two Mountains
- .426 Vaudreuil
  - 5 Soulanges
- .427 Laval
- .428 Hochelaga
  - 1 Montreal
  - 5 Jacques Cartier
- .43 **Southwestern**
  - Counties south of the St Lawrence and west of Richelieu river
- .431 Huntingdon
- .432 Beauharnois
- .433 Chateaugay
- .434 La Prairie
- .435 Napierville
- .436 Verchères
- .437 Chambly
- .438 St Johns
- .44 **North Central**
  - Counties north of St Lawrence from Montreal to Saguenay river
- .441 Montcalm
  - 6 L'Assomption
- .442 Joliette
- .443 Berthier
- .444 Maskinonge
- .445 St Maurice
- .446 Champlain
  - 6 Portneuf
- .447 Quebec
  - 1 Quebec (city)
- .448 Montmorency
  - Isle d'Orléans
- .449 Charlevoix

**South Central**

Counties south of St Lawrence from Richelieu river to Quebec

- .451 Richelieu
- .452 St Hyacinthe
- 5 Bagot
- .453 Rouville
- .454 Yamaska
- .455 Nicolet
- .456 Drummond
- 5 Arthabaska
- .457 Wolfe
- 5 Megantic
- .458 Lotbinière
- .459 Levis

**.46 Southern**

Southern border from Richelieu river to Lake Megantic

- .461 Iberville
- .462 Missisquoi
- .463 Shefford
- .464 Brome
- .465 Richmond
- .466 Sherbrooke
- Sherbrooke (city)
- .467 Stanstead
- .468 Compton
- .469 Lake Megantic

**.47 Southeastern**

Lower St Lawrence, southern side from Quebec to Gulf of St Lawrence

- .471 Beauce
- .472 Dorchester
- .473 Bellechasse
- 5 Montmagny
- .474 L'Islet
- .475 Kamouraska
- .476 Temiscouata
- .477 Rimouski
- 5 Matane
- .478 Bonaventure
- .479 Gaspé
- 7 Magdalen ilands

**.5 New Brunswick****.51 Northern**

- .511 Restigouche
- .512 Gloucester

**.52 Eastern**

- .521 Northumberland
- .522 Kent
- .523 Westmoreland
- Monckton (city)



- 971.53      **Southern**
- .531      Albert
- .532      St John
- St John (city)
- .533      Charlotte
- Grand Manan Island
- .54      **Central**
- .541      Kings
- .542      Queens
- .543      Sunbury
- .55      **Western**
- .551      York
- Fredericton (city)
- .552      Carleton
- .553      Victoria
- .554      Madawaska
- .6      **Nova Scotia**
- .61      **Northern**
- .611      Cumberland
- .612      Colchester
- .613      Pictou
- .614      Antigonish
- .62      **Southern**
- .621      Guysborough
- .622      Halifax co. and city
- .623      Lunenburg
- .624      Queens
- .625      Shelburne
- .63      **Western**
- .631      Yarmouth
- .632      Digby
- .633      Annapolis
- .634      Kings
- .635      Hants
- .69      **Cape Breton (iland)**
- .691      Inverness
- .693      Victoria
- .695      Cape Breton
- .696      Sydney (city)
- .698      Richmond
- .7      **Prince Edward Island**
- .71      Prince
- .74      Queens
- .75      Charlottetown (city)
- .77      Kings
- .8      **Newfoundland**
- .9      **Labrador**

For Moravian missions see 266 45

## Period divisions

.01	Ancient civilization	— 1516
	1 Toltec 2 Chichimec 3 Tarascan 4 Aztec 5 Maya	
.02	Discovery and Spanish rule	1516-1810
.03	Independence	1810-1822
.04	First empire Iturbide 1 Pronunciamientos	1822-1845
.05	War with United States. See also 973.6	1845-1848
.06	Constitution of '57 Reform	1848-1861
.07	French intervention	1861-1867
.08	Later history	1867-

## Geographic divisions

.1	<b>Free zone and Northern states</b>	
	Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango	
.2	<b>Lower California and ilands</b>	
.3	<b>Central Pacific states</b>	
	Sinaloa, Jalisco, Colima, Michoacan	
.4	<b>Interior states</b>	
	Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato, Querétaro, Hidalgo, Puebla, Tlascala, Morelos	
.5	<b>Mexico Federal district</b>	
.6	<b>Southern Gulf states</b>	
	Veracruz, Tabasco, Campeche, Yucatan	
.7	<b>Southern Pacific states</b>	
	Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas	
.8	<b>Central America</b>	
	.81 Guatemala	
	.82 British Honduras Belize	
	.83 Honduras	
	.84 San Salvador	
	.85 Nicaragua	
	.86 Costa Rica	
.9	<b>West Indies</b>	
	.91 Cuba	
	.92 Jamaica	
	.93 Santo Domingo	
	.94 Hayti	
	.95 Porto Rico	
	.96 Bahamas	
	.97 Leeward ilands	
	.98 Windward ilands Barbados	
	.99 Bermudas	

## SUMMARY OF 973

.1	Discovery	—1607
.2	Colonial	1607—1775
.3	Revolution	1775—1789
.4	Constitutional	1789—1809
.5	War of 1812	1809—1845
.6	War with Mexico	1845—1861
.7	Civil war	1861—1865
.8	Later 19th century	1865—1901
.91	Early 20th century	1901—

See also 342.73 U. S. constitutional law and history; 328.73 U. S. legislative bodies and annals; 329 Political parties; 353 U. S. government

**.1 Discovery** —1607

From earliest times to settlement of Jamestown

See also 970.1-6 American indians; 913.7 American antiquities; 571.91 Mounds and mound builders; 571.85 Pueblos

**.11 Precolumbian**

For precolumbian claims of Chinese, Norse, Welsh, etc. see .12 to .18 below

Arabs	Poles
Jews	Germans Martin Behaim
Africans	Italians
Irish	

**.12 Chinese****.13 Norse**

Gunnbiorn	Bjarni Herjulfson
Eric the Red	Thorwald
Leif Ericson	Thorfinn Karlsefne

**.14 Welsh**

Prince Madoc

**.15 Columbus****.16 Spanish and Portuguese**

Dates of voyages are added to names

Amerigo Vespucci 1497-1504
Gaspar and Miguel Cortereal 1500-2 Labrador
Juan Ponce de Leon 1513-21 Florida
Vasco Nuñez de Balbóa 1513 Pacific ocean
Hernando Cortés 1518-40 See also 972.02 History of Mexico
Fernando da Magalhaens 1518-21 Magellan straits
Francisco Pizarro 1524-41 See also 985 History of Peru
Hernando de Soto 1539-42 Mississippi river
Francisco Vasquez de Coronado 1540-42 New Mexico, Arizona, Colorado

**.17 English**

John and Sebastian Cabot 1497-1530
Sir John Hawkins 1562-69
Sir Francis Drake 1570-80
Sir Martin Frobisher 1576-78
Sir Humphrey Gilbert 1578-83
Sir Walter Raleigh 1578-1602
John Davis 1585-87
Bartholomew Gosnold 1602-07

- 973.18 **French**  
 Giovanni da Verrazano 1524  
 Jacques Cartier 1534-44 Canada  
 Jean Ribault 1562-65 Florida  
 René de Laudonnière 1564-66 Florida  
 Samuel de Champlain 1603-35 See also 971 History of Canada
- .19 **Other nations**
- .2 **Colonial** 1607-1775  
 See also histories of separate colonies
- .21 **Virginia settlement 1607-20**  
 Settlement of Jamestown 13 May 1607 See 975.5 Virginia history  
 Hudson's voyage 1609 See also 974.7 N. Y. history  
*James 1 1603-26*
- .22 **New England settlement 1620-43**  
 Settlement of Plymouth 21 Dec. 1620 See 974.4 Mass. history  
 Pequot war 1636-37 Connecticut  
*Charles 1 1626-49*
- .23 **New England confederacy 1643-64**  
 United colonies of New England 19 May 1643  
*Commonwealth 1649-53  
 Oliver Cromwell 1653-58  
 Richard Cromwell 1658-59*
- .24 **Conquest of New Netherlands 1664-89**  
 King Philip's war 1675-76 Massachusetts  
 War with eastern indians 1675-78 Maine  
 Sir Edmund Andros, governor of New England 1686-89  
*Charles 2 1680-85  
 James 2 1685-88*
- .25 **Early French wars 1689-1732**  
 Witchcraft in New England See 133.4  
 King William's war 1689-97  
 Sometimes cald in Europe 'War of the Palatinate'  
 Queen Anne's war 1702-13  
 Known in Europe as War of the Spanish succession  
*William 3 1689-1702  
 Anne 1702-14  
 George 1 1714-27*
- .26 **Extension of English rule 1732-63**  
 Settlement of Georgia 1732 See 975.8 Georgia history  
 King George's war 1744-48  
 Known in Europe as War of the Austrian succession  
 Albany convention assembled 19 June 1754  
 French and indian war 1755-63  
 Known in Europe as Seven years war  
 Braddock's defeat 9 July 1755  
 Crown Point and Ticonderoga 1758-59  
 Capture of Louisburg 27 July 1758  
 Capture of Quebec 18 Sep. 1759; Montcalm and Wolfe  
 Peace of Paris 10 Feb. 1763  
*George 2 1727-60*
- .27 **Last years of the colonies 1763-75**  
 See also specially 973.311 Causes of the Revolution  
 Conspiracy of Pontiac 1763-64  
 Bouquet's expedition 1763-64  
 Lord Dunmore's war Ap.-Oct. 1774 Virginia  
*George 3 1760-1820*

## SUMMARY OF 973.3

- .31 Political history
- .32 Diplomatic history
- .33 Special campaigns and battles
- .34 General military history
- .35 Naval history
- .36 Celebrations
- .37 Prisons, hospitals
- .38 Personal narratives
- .39 Illustrativ material
- .31 Political history; causes, results
  - For financial history see 336.73
- .311 Causes 1775
  - 1 Stamp act 1765
  - 2 Navigation acts; mercantil policy
    - Burning of the Gaspé 17 June 1772
  - 3 Boston massacre 5 Mar. 1770
  - 4 Taxation and representation
  - 5 Tax on tea 1767 Boston tea party 16 Dec. 1773
  - 6 Boston port bill 1774
- .312 Political history 1775-83
  - Continental congress See 328.73 U. S. legislativ bodies
- .313 Declaration of independence 4 July 1776 See also 973.361
  - Mecklenburg declaration 20 May 1775
- .314 Loyalists, tories See also 973.381 Treason and traitors
- .315 Relations of special classes to the Revolution
  - Clergy and churches
  - Lawyers
  - College graduates
- .316
- .317 Treaty of peace 1783
  - Concluded at Paris 3 Sep. 1783; ratified 14 Jan. 1784
- .318 Confederation 1783-89
  - Shay's rebellion 1786-87 Massachusetts
  - Cession of western territory to United States
- .319
- .32 Diplomatic history; relations with other nations
  - Divided like 940; e. g. 973.324 Relations with France; 973.326 Relations with Spain
- .33 Special campaigns and battles
- .331 Campaigns of 1775
  - 1 Lexington and Concord 19 April See also 973.362
  - 2 Bunker Hill 17 June See also 973.366
  - 3 Siege of Boston June 1775-March 1776
  - 4 Ticonderoga 10 May
    - Crown Point 12 May
  - 5 Canadian expeditions
    - Montgomery
    - Arnold
  - 7
  - 8 Events in the south

- 973.332 Campaigns of 1776
- 1 Campaign for the Hudson
  - 2 Battle of Long Island 27 Aug.
  - 3 British occupation of New York
  - 4 American retreat Sep.-Nov. 1776
    - Harlem Heights 16 Sep.
    - White Plains 28 Oct.
    - Fort Washington 16 Nov.
  - 5 Washington in the Jerseys Dec. 1776-Jan. 1777
  - 6 Trenton 26 Dec.
    - Princeton 3 Jan. 1777
  - 7
  - 8 Events in the south
    - North Carolina
    - Fort Moultrie, Sullivan's island 28 June
- .333 Campaigns of 1777
- 1 Events in Connecticut and Rhode Island
  - 2 Burgoyne's campaign
    - Ticonderoga evacuated 6 July
    - Hubbardton, Vt 7 July
    - Bennington, Vt 16 Aug.
  - 3 Freeman's farm or Bemis Heights or Stillwater 19 Sep.
    - Bemis Heights or Saratoga 7 Oct.
    - Burgoyne's surrender 17 Oct.
  - 4 Fort Stanwix or Fort Schuyler or Oriskany 2-22 Aug.
  - 5 Clinton's advance up the Hudson
    - Forts Clinton and Montgomery 6 Oct.
  - 6 Howe's campaign
    - Brandywine 11 Sep.
    - Paoli 20 Sep.
  - 7 Philadelphia taken by British 27 Sep.
    - Germantown 4 Oct.
    - Forts on the Delaware
      - Red Bank, or Fort Mercer 22 Oct.
      - Mud island, or Fort Mifflin 10-16 Nov.
  - 8 Events in south Including Kentucky
- .334 Campaigns of 1778
- 1 Washington at Valley Forge 1777-78
  - 2 Events in middle states
    - Battle of Monmouth 28 June
  - 3 Evacuation of Philadelphia June
  - 4 Indian depredations See also 973.343
    - Wyoming 1-4 July
  - 5 Mohawk valley
    - Cherry valley 11 Nov.
    - Brant See also 970.2 Indian biography
  - 6 Rhode Island campaign, August See also 973.354 Naval history
  - 7 Events in the south
    - Capture of Savannah 29 Dec.
  - 8 Events in northwest 1778-79
    - Clark's expedition
    - Vincennes, Ind. 2 Jan. and 20 Feb. 1779

- 973.335 Campains of 1779
- 1 Events in New England
    - Tryon in Connecticut July
  - 2 Penobscot expedition Aug. and Sep.
  - 3 Events in middle states
    - Minisink 19 July
  - 4 Wayne at Stony Point 16 July
  - 5 Paulus Hook 19 Aug.
  - 6 Sullivan's expedition July-Sep.
  - 7 Events in the south
    - Briar creek 3 Mar.
    - Siege of Savannah 23 Sep. and 18 Oct.
  - 8 Events in northwest See 973.3343
- .336 Campain of 1780
- 1 Southern campains
    - Waxhaws, N. C. 29 May
    - Ramsour Mills, N. C. 20 June
    - Leslie's expedition into Virginia Oct.
  - 2 Siege of Charleston Mar.-May
  - 3 Camden, S. C. 16 Aug.
  - 4 Kings mountain, S. C. 7 Oct.
  - 5 Events in middle states
    - Springfield, N. J. 23 June
    - Bull's Ferry, N. Y. 21 July
  - 6 Northern invasion
- .337 Campains of 1781
- 1 Southern campains
  - 2 Events in Carolinas Jan.-Ap.
    - Cowpens, S. C. 17 Jan.
    - Guilford, N. C. 15 Mar.
    - Hobkirks hill, S. C. 25 Ap.
  - 3 Events in Carolinas May-Dec.
    - Fort Ninety-Six, S. C. May-June
    - Eutaw Springs, S. C. 8 Sep.
  - 4 British in Virginia
  - 5 Siege of Yorktown Sep.-Oct.
    - Surrender of Cornwallis 19 Oct.
  - 6 Events in the north
  - 7 Arnold in Connecticut : Sep.
- .338 Campains of 1782
- .339 Events of 1783
- British evacuation of New York 25 Nov. See also 973.363

- 973.34 **General military history**
- .341 English side
  - .342 Mercenaries; Hessians
  - .343 Indians
  - .344 American side
    - Part taken by special states, specially the northern states. Under the number for each state use the book numbers A1-A19 for official publications, A2 for lists of revolutionary soldiers
- I**
- 2 New Hampshire
  - 3 Vermont Not then a state, admitted 1791
  - 4 Massachusetts
  - 5 Rhode Island
  - 6 Connecticut
  - 7 New York
  - 8 Pennsylvania
  - 9 New Jersey
- .345 Southern states
- 1 Delaware
  - 2 Maryland
  - 5 Virginia
  - 6 North Carolina
  - 7 South Carolina
  - 8 Georgia
- .346 American auxiliaries
- .347 French
- .348
- .349 Special topics
- Conway cabal 1777-78
  - Mutiny of Pennsylvania line Jan. 1781
  - Newburg addresses 1782-83
- .35 Naval history**
- .351 Events of 1775
- Capture of the Margarettta June 12
- .352 Events of 1776
- Escape of British sloop of war Glasgow 6 Ap.
  - Battle of Lake Champlain 11-13 Oct.
  - Gen. Benedict Arnold
- .353 Events of 1777
- Lexington and Alert 20 Sep.
- .354 Events of 1778
- French fleet at Newport
- .355 Events of 1779
- Bon Homme Richard and the Serapis 23 Sep.
- .356 Events of 1780
- Trumbull and Watt 2 June
- .357 Events of 1781
- Alliance and British brigs Atalanta and Trepassey 28 May
- .358 Privateers



**Celebrations, anniversaries, commemorations**

These should usually be clast with the special event commemorated, but some anniversaries are of such general character as to be better clast here. For Patriotic societies of the revolution see 369.13

- .361 Fourth of July See also 973.313
- .362 19th of April See also 973.3311
- .363 Evacuation day, New York See also 973.339
- .364
- .365 Monuments, memorials See also 718
- .366 Bunker Hill monument See also 973.3312
- .367 Washington's various headquarters
  - Newburg, N. Y.
  - Morristown, N. J.

**.37 Prisons, hospitals, etc.**

- .371 English prisons
  - 1 Jersey prison ship
  - 2 Sugar house prison
- .372 American prisons
- .373 Exchange of prisoners
- .374
- .375 Medical dep't; surgeons, nurses, etc.
- .376 Hospitals
- .377
- .378
- .379

**.38 Personal narrativs, vindications, secret servis**

- .381 Treason and traitors See also 973.314 Loyalists, tories
- .382 Benedict Arnold
- .383 Charles Lee
- .384
- .385 Secret servis, spies
  - American side: Nathan Hale
  - British side: Major John André
- .386

**.39 Illustrativ material**

These numbers should be used mainly for references. Poems, dramas etc. should usually be clast under their own numbers, 811, 812, etc. but special collections should be clast here

- .391 Poetry
- .392 Drama
- .393 Fiction
- .394 Addresses
- .395 Sermons
- .396 Humor
- .397 Pictures
  - Paintings, drawings, caricatures, engravings, photografs, sculpture
- .398 Music
- .399 Maps

## 973-4 Constitutional period

1789-1809

See 342.73 U. S. constitution; 329.1 Federal party 1789-1823; 329.2 Antifederal party 1789-92

- .41 **George Washington** 30 Ap. 1789-4 Mar. 1797  
 Born 22 Feb. 1732; died 14 Dec. 1799  
 Sworn into office 30 Ap. 1789  
 National bank established 25 Feb. 1791 See 332.11  
 Vermont admitted, 14th state 4 Mar. 1791 See 974.3  
 Kentucky admitted, 15th state 1 June 1792 See 976.9
- .42 **Indian wars**  
 Harmer's expedition 1790  
 St Clair's expedition 1791
- .43 **Washington's 2d term** 4 Mar. 1793-4 Mar. 1797  
 Neutrality proclamation 22 Ap. 1793 See also 341.3  
 Whisky insurrection July-Nov. 1794  
 Wayne's expedition, Oct.-Nov. 1794, and treaty, 3 Aug. 1795  
 Jay's treaty 28 Oct. 1795 See also 341.2  
 Treaty with Spain 27 Oct. 1795 See also 341.2  
 Tennessee admitted, 16th state 1 June 1796 See 976.8
- .44 **John Adams** 4 Mar. 1797-4 Mar. 1801  
 Born 31 Oct. 1735; died 4 July 1826  
 Alien act 25 June 1798 See 341.5  
 Sedition act 14 July 1798 See 323  
 Removal of capitol to Washington
- .45 **Troubles with France**  
 Naval battles; Constellation and L'Insurgent 9 Feb. 1800
- .46 **Thomas Jefferson** 4 Mar. 1801-4 Mar. 1809  
 Born 2 Ap. 1743; died 4 July 1826  
 Ohio admitted, 17th state 19 Feb. 1803 See 977.1  
 Purchase of Louisiana 2 May 1803
- .47 **Wars with Barbary states**
- .48 **Jefferson's second term** 4 Mar. 1805-4 Mar. 1809  
 Aaron Burr's conspiracy 1806  
 See also 923.27 lives of Burr; and 343.1 Trials  
 Embargo act 22 Dec. 1807
- .5 **War of 1812** 1809-45
- .51 **James Madison** 4 Mar. 1809-4 Mar. 1817  
 Born 16 Mar. 1751; died 28 June 1836  
 Engagement between ships President and Little Belt 16 May 1811  
 Defeat of Indians by Gen. Harrison at Tippecanoe 7 Nov. 1811  
 Louisiana admitted, 18th state 30 Ap. 1812 See 976.3  
 Indiana admitted, 19th state 11 Dec. 1816 See 977.2

- 973-52 War of 1812  
 War declared 18 June 1812. Treaty of peace 24 Dec. 1814
- .521 Political history; causes, results  
 Hartford convention
- .522 Diplomatic history
- .523 Special campaigns and battles
- 1 Campaign in northwest  
 Includes all west of New York  
 Surrender of Detroit 16 Aug. 1812
- 2 Events in northwest 1813-14
- 3 Campaign in New York, New England and Canada  
 Battle of Queenstown 13 Oct. 1812
- 4 Events in New York and New England 1813  
 Capture of Fort Niagara 19 Dec.
- 5 Events in Canada 1813  
 Capture of Fort George 27 May  
 Battle of Thames 5 Oct.
- 6 Events in New York and New England 1814  
 Bombardment of Stonington, Conn. 9-12 Aug.
- 7 Events in Canada 1814  
 Capture of Fort Erie 3 July  
 Battle of Chippewa 5 July  
 Battle of Lundy's lane 25 July
- 8 Campaign in the south  
 Battle of Bladensburg 24 Aug. 1814  
 Burning of Washington 24 Aug. 1814  
 Bombardment of Fort McHenry 13 Sep. 1814
- 9 Events in Louisiana  
 Battle of New Orleans 22 Dec. 1814-8 Jan. 1815
- .524 General military history
- 1 English side
- 2 Indian allies
- 3
- 4 American side in general  
 Divided like 974. Under the number for each state use the book numbers  
 A1-A19 for official publications, A2 for lists of soldiers
- 5 South Atlantic states  
 Divided like 975
- 6 Gulf states  
 Divided like 976
- 7 Lake states  
 Divided like 977

- 973.525 Naval history
- 1 Events of 1812  
 Constitution and Guerrière 19 Aug.  
 Wasp and Frolic 18 Oct.  
 United States and Macedonia 25 Oct.  
 Constitution and Java 29 Dec.
- 2 Events on inland waters
- 3 Events of 1813  
 Hornet and Peacock 24 Feb.  
 Chesapeake and Shannon 1 June  
 Pelican and Argus 14 Aug.  
 Enterprize and Boxer 5 Sep.
- 4 Events on inland waters  
 Battle of Lake Erie 10 Sep.
- 5 Events of 1814  
 Essex against Phoebe and Cherub 28 Mar.  
 Peacock and Epervier 29 Ap.  
 Wasp and Reindeer 28 June  
 Wasp and Avon 1 Sep.  
 Wasp and Atlanta 21 Sep.
- 6 Events on inland waters  
 Battle on Lake Champlain 11 Sep.
- 7 Events of 1815  
 Capture of frigate President 15 Jan.  
 Capture of Cyane and Levant by the Constitution 20 Feb.  
 Hornet and Penguin 23 Mar.
- 8 Privateers
- .526 War meetings, celebrations, anniversaries, etc.  
 See note under 973.36  
 See 369.14 societies of the war of 1812
- .527 Prisons, hospitals, etc.
- 1 English prisons Dartmoor
- .528 Personal narrativs, vindications, secret servis
- .529 Illustrativ material Divided like 973.39
- .53 Algerine war
- .54 **James Monroe** 4 Mar. 1817-4 Mar. 1825  
 Born 28 Ap. 1758; died 4 July 1831  
 Mississippi admitted, 20th state 10 Dec. 1817 See 976.2  
 Illinois admitted, 21st state 3 Dec. 1818 See 977.3  
 Purchase of Florida 25 Feb. 1819  
 Alabama admitted, 22d state 14 Dec. 1819 See 976.1  
 Maine admitted, 23d state, 15 Mar. 1820 See 974.1  
 Missouri compromise See 326.973 and 973.7113  
 Missouri admitted, 24th state 10 Aug. 1821 See 977.8  
 Monroe doctrin Dec. 1823 See 327.73  
 Tariff act 22 May 1824 See 337
- .541 First Seminole war 1818
- .55 **John Quincy Adams** 4 Mar. 1825-4 Mar. 1829  
 Born 11 July 1767; died 23 Feb. 1848  
 Erie canal completed 1825 See 386  
 Panama congress 1826 See 341.1  
 Removal of Creek indians 1825-29 See 970.3  
 Tariff act 19 May 1828 See 337

- 973.56 **Andrew Jackson** 4 Mar. 1829-4 Mar. 1837  
 Born 15 Mar. 1767; died 8 June 1845  
 Rotation in office See 351.6  
 United States bank See 332.11  
 Whig party See 329.4  
 Compromise tariff act 3 Mar. 1833 See 337  
 Independence of Texas 2 Mar. 1836 See 976.4  
 Arkansas admitted, 25th state 15 June 1836 See 976.7  
 Specie circular 11 July 1836 See 336.73  
 Michigan admitted, 26th state 26 Jan. 1837 See 977.4
- .561 Nullification See also 342.73  
 Webster and Hayne debate 25-27 Jan. 1830  
 Nullification ordinance, South Carolina 24 Nov. 1832
- .562 Black Hawk war 1832
- .57 **Martin Van Buren** 4 Mar. 1837-4 Mar. 1841  
 Born 5 Dec. 1782; died 24 July 1862  
 Panic of 1837 See 332  
 Alton riot 7 Nov. 1837 See 326.973  
 Burning of Caroline 26 Dec. 1837  
 Northeast boundary, Aroostook war Feb.-Mar. 1839  
 Amistad case 1839
- .571 Second Seminole war 1835-42
- .58 **William Henry Harrison** 4 Mar. 1841-4 Ap. 1841  
 Born 9 Feb. 1773; died 4 Ap. 1841
- John Tyler** 4 Ap. 1841-4 Mar. 1845  
 Born 29 Mar. 1790; died 18 Jan. 1862  
 Dorr's rebellion May-June 1842 See 974.5  
 Ashburton treaty, northeast boundary  
 Texas annexation resolution 28 Feb. 1845  
 Florida admitted, 27th state 3 Mar. 1845
- .6 **War with Mexico** 1845-61
- .61 **James Knox Polk** 4 Mar. 1845-4 Mar. 1849  
 Born 2 Nov. 1795; died 15 June 1849  
 Texas annexed, 28th state 29 Dec. 1845 See 976.4  
 Wilmot proviso adopted by house 8 Aug. 1846 See also 973.7113  
 Iowa admitted, 29th state 28 Dec. 1846 See 977.7  
 Wisconsin admitted, 30th state 29 May 1848 See 977.5  
 Free soil party; Buffalo convention Aug. 1848 See 329.6
- .611 Northwest boundary; Oregon; treaty with England 12 June 1846
- .62 Mexican war 1845-48  
 War declared 13 May 1846; treaty of peace 30 May 1848
- .621 Political history; causes, results  
 Annexation of Texas  
 Acquisition of California, Nevada, Utah, Arizona, etc.
- .622 Diplomatic history
- .623 Special campaigns and battles
- 1 Kearny in New Mexico
- 2 Fremont in California
- 3 Taylor's campaign
- 4 On the Rio Grande  
 Palo Alto 8 May 1846  
 Resaca de la Palma 9 May  
 Matamoros 18 May
- 5 In Mexico  
 Monterey 20-25 Sep. 1846  
 Buena Vista 22-23 Feb. 1847

- 973.623 6 Scott's campaign  
 7 Vera Cruz 22-29 Mar. 1847  
 Cerro Gordo 17-18 Ap.  
 8 Battles near Mexico  
 Contreras 19-20 Aug.  
 San Antonio 20 Aug.  
 Churubusco 20 Aug.  
 9 Capture of Mexico  
 Molino del Rey 8 Sep.  
 Chapultepec 12-13 Sep.  
 Mexico 14 Sep.
- .624 General military history  
 .625 Naval history  
 .626 War meetings, celebrations, anniversaries  
 See note under 973.36; also 369.145 Aztec club of 1847  
 .627 Prisons, hospitals, etc.  
 .628 Personal narrativs  
 .629 Illustrativ material See note under 973.39  
 .63 **Zachary Taylor** 5 Mar. 1849-9 July 1850  
 Born 24 Sep. 1784; died 9 July 1850  
 Inaugural ceremony 5 March  
 Compromise of 1850, Omnibus bill, introduced by Henry Clay  
 29 Jan. 1850 See also 326.973 and 973.7113
- .64 **Millard Fillmore** 9 July 1850-4 Mar. 1853  
 Born 7 Feb. 1800; died 7 Mar. 1874  
 Clayton-Bulwer treaty 4 July 1850 See also 386  
 California admitted, 31st state 9 Sep. 1850 See 979.4  
 Fugitiv slave law 18 Sep. 1850 See 326.973  
 Popular soverenty, or squatter soverenty See 342.73 and 326.973  
 Filibustering expeditions to Cuba 1849-51 See 972.91
- .65  
 .66 **Franklin Pierce** 4 Mar. 1853-4 Mar. 1857  
 Born 23 Nov. 1804; died 8 Oct. 1869  
 Know-nothing party See also 329.5  
 Republican party See also 329.6  
 Com. Perry's expedition to Japan 1852-54 See also 915.2 and 341.273  
 Gadsden treaty with Mexico for purchase of southern Arizona and  
 New Mexico 30 June 1854  
 Kansas-Nebraska bill 30 May 1854 See also 326.973, 978.1 and 978.2  
 Ostend manifesto 18 Oct. 1854 See also 972.91  
 Walker's filibuster expedition against Nicaragua 1855 See also 972.85
- .67  
 .68 **James Buchanan** 4 Mar. 1857-4 Mar. 1861  
 Born 23 Ap. 1791; died 1 June 1868  
 Dred Scott decision 6 Mar. 1857 See also 326.973 and 973.7113  
 Lecompton constitution, Kansas; proslavery 7 Nov. 1857  
 See also 978.1  
 Minnesota admitted, 32d state 11 May 1858 See 977.6  
 Oregon admitted, 33d state 14 Feb. 1859 See 979.5  
 John Brown's raid 16-17 Oct. 1859 See also 973.7116 and 326.973  
 Kansas admitted, 34th state 29 Jan. 1861 See 978.1
- .69

## SUMMARY OF 973.7

- .71 Political history
- .72 Diplomatic history
- .73 Special campaigns and battles
- .74 General military history
- .75 Naval history
- .76 Celebrations
- .77 Prisons, hospitals
- .78 Personal narrative
- .79 Illustrativ material

## Abraham Lincoln

1861-1865

Born 12 Feb. 1809; died 15 Ap. 1865

1st term 4 Mar. 1861-4 Mar. 1865; 2d term 4 Mar. 1865-15 Ap. 1865

- .71 Political history; causes, results
  - West Virginia admitted, 35th state 19 June 1863 See 975.4
  - Nevada admitted, 36th state 31 Oct. 1864 See 979.3
- .711 Causes
  - 1 Slavery See also 326
  - 2 Extension of slavery
    - Annexation of territory
    - Slavery in the territories
  - 3 Compromises
    - Missouri compromise 1820 See also 973.54
    - Wilmot proviso 1846 See also 973.61
    - Compromise of 1850 See also 973. 63
  - 4 Abolition movement
    - Murder of Elijah P. Lovejoy 7 Nov. 1837
    - Assault on Charles Sumner by Preston S. Brooks 22 May 1856
  - 5 Fugitiv slaves
    - Underground railway
    - Dred Scott case See also 973.68
  - 6 John Brown's raid See also 973.68
  - 7 States' rights
  - 8 Tariff See also 337
- .712 Efforts to preserv peace
  - Crittenden compromise introduced 18 Dec. 1860
  - Peace conference 4-27 Feb. 1861
- .713 Secession of southern states
  - South Carolina 20 Dec. 1860
  - Mississippi 9 Jan. 1861
  - Florida 10 Jan.
  - Alabama 11 Jan.
  - Georgia 19 Jan.
  - Louisiana 26 Jan.
  - Texas 1 Feb.
  - Confederate States of America formd 4 Feb.
  - Virginia 17 Ap.
  - Arkansas 6 May
  - North Carolina 20 May
  - Tennessee 8 June

For constitutional conventions see subdivisions of 342; proceedings and documents of Confederate congress and of state legislatures see subdivisions of 328
- .714 Results of the civil war
  - Emancipation proclamation 1 Jan. 1863 See also 326.8
  - Freedmen's bureau See 361
  - For the present condition of negro, see 325.26
  - For negro colony in Liberia, Africa, see 325.6; history of Liberia 966.6

- 973.715 Relations of special classes to the civil war  
 Clergy and churches. Colleges, students and graduates
- .716 Southern side
- .717 Unionists in the south
- .718 Secessionists in the north
- .72 **Diplomatic history: relations with other nations**  
 Divided like 940; e. g. 973.722 Relations with England; 973.727 Russia
- .721 Diplomatic history of confederate states  
 Divided like 940; e. g. 973.7214 Relations of confederate states with France
- .73 **Special campaigns and battles**  
 General arrangement of topics is based on *Official records of the Union and confederate armies*, pub. by the U. S. The indexes of those volumes can be used as a minute subject index for subdivisions of 973.73
- .731 Campaign of 1861
- 1 Operations in Charleston harbor, S. C. 20 Dec. 1860-14 Ap. 1861  
 Bombardment of Fort Sumter 12-14 April
  - 2 Operations in other southern states (see *Official records*, v. 1)
  - 3 Maryland, Pennsylvania, Virginia, West Virginia, 16 Ap.-31 July  
 Riot at Baltimore, Md. 19 April  
 Engagement at Big Bethel, or Bethel Church, Va. 10 June
  - 4 Battle of Bull Run, or Manassas, Va. 21 July
  - 5 Missouri, Arkansas, Kansas, Indian territory 10 May-19 Nov.
  - 6 Texas, New Mexico, Arizona 11 June-1 Feb. 1862  
 Kentucky, Tennessee 1 July-19 Nov.  
 North Carolina, southeastern Virginia 1 Aug.-11 Jan. 1862
  - 7 Maryland, northern Virginia, West Virginia 1 Aug.-17 Mar. 1862
  - 8 Engagement at Ball's Bluff, Va. 21 Oct.  
 Action near Edwards Ferry, Va. 22 Oct.
  - 9 S. Carolina, Georgia, middle and east Florida 21 Aug.-11 Ap. 1862
- .732 Campaign of 1862
- 1 West Florida, southern Alabama, southern Mississippi, Louisiana  
 1 Sep. 1861-12 May 1862  
 Capture of New Orleans, La. 18 Ap.-1 May
  - 2 Kentucky, Tennessee, north Alabama, southwest Virginia  
 19 Nov. 1861-4 March 1862  
 Capture of Fort Henry, Tenn. 6 Feb.  
 Siege and capture of Fort Donelson, Tenn. 12-16 Feb.
  - 3 Missouri, Arkansas, Kansas, Indian T. 19 Nov. 1861-10 Ap. 1862  
 Battle of Pea Ridge, or Elkhorn tavern, Ark. 6-8 Mar.
  - 4 Southeastern Virginia 11 Jan.-17 Mar.  
 Battle of Merrimac and Monitor See 973.752  
 North Carolina 11 Jan.-20 Aug.  
 Burnside expedition  
 Battle of Roanoke Island, N. C. 8 Feb.  
 Texas, New Mexico, Arizona 1 Feb.-20 Sep.
  - 5 Kentucky, Tennessee, north Mississippi, north Alabama, southwest Virginia 4 Mar.-10 June  
 Siege of Corinth, Miss. 29 Ap.-10 June
  - 6 Battle of Pittsburg Landing, or Shiloh, Tenn. 6-7 Ap.
  - 7 Peninsular campaign, Va. 17 Mar.-2 Sep.  
 Siege of Yorktown, Va. 5 Ap.-4 May  
 Battle of Fair Oaks, or Seven Pines, Va. 31 May-1 June  
 Seven-days battles 25 June-1 July
  - 8 Northern Virginia, West Virginia, Maryland 17 Mar.-2 Sep.  
 Battle of Cedar Run, or Cedar (Slaughter) mountain, Va. 9 Aug.  
 Second battle of Bull Run or Manassas, Va. 30 Aug.
  - 9 Missouri, Arkansas, Kansas, Indian Territory, Dep't of N. W.  
 10 Ap.-20 Nov.



Campaign of 1862 *continued*

- 1 South Carolina, Georgia, middle and east Florida 12 Ap. 1862-11 June 1863
- 2 West Florida, southern Alabama, southern Mississippi, Louisiana 12 May 1862-14 May 1863
- 3 Texas, New Mexico, Arizona 20 Sep. 1862-14 May 1863
- 4 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 10 June-31 Oct.
- 5 West Tennessee, northern Mississippi 10 June-20 Jan. 1863
- 6 Battle of Corinth, Miss. 3-4 Oct.
- 7 North Carolina, southeastern Virginia 20 Aug. 1862-3 June 1863
- 8 Northern Virginia, West Virginia, Maryland, Pennsylvania 3 Sep.-14 Nov.
- 9 Battle of South Mountain, Md. 14 Sep.
- 10 Battle of Antietam, or Sharpsburg, Md. 16-17 Sep.
- 11 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 1 Nov.-20 Jan. 1863
- 12 Battle of Stone river, or Murfreesboro, Tenn. 31 Dec. 1862-3 Jan. 1863
- 13 Northern Virginia, West Virginia, Maryland, Pennsylvania 15 Nov.-25 Jan. 1863
- 14 Battle of Fredericksburg, Va. 11-15 Dec.

## Campaign of 1863

- 1 Missouri, Arkansas, Kansas, Indian Territory, Dep't of Northwest 20 Nov. 1862-31 Dec. 1863
- 2 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 21 Jan.-10 Aug.
- 3 Middle Tennessee, or Tullahoma campaign 23 June-7 July
- 4 Morgan's Ohio raid 2-26 July
- 5 Mississippi, west Tennessee 20 Jan.-10 Aug.
- 6 Siege of Vicksburg, Miss. 19 May-4 July
- 7 Northern Virginia, West Virginia, Maryland, Pennsylvania 26 Jan.-3 June
- 8 Chancellorsville, Va. campaign 27 Ap.-6 May
- 9 West Florida, southern Alabama, southern Mississippi, Louisiana, Texas, New Mexico 14 May-31 Dec.
- 10 Siege of Port Hudson, La. 21 May-8 July
- 11 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania, Dep't of East 3 June-3 Aug.
- 12 Battle of Gettysburg, Pa. 1-3 July

Campaign of 1863, *continued*

- 1 South Carolina, Georgia, middle and east Florida 12 June-31 Dec.  
 Operations on Morris island, S. C. 10 July-7 Sep.  
 Occupation of Battery Wagner, S. C. 6-7 Sep.  
 Bombardment of Fort Sumter, S. C. 17 Aug.-31 Dec.  
 Bombardment of Charleston, S. C. 21 Aug.-31 Dec.
- 3 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania  
 4 Aug.-31 Dec.  
 Bristoe, Va. campaign 9-22 Oct.  
 Mine Run, Va. campaign 26 Nov.-2 Dec.
- 4 Kentucky, southwest Virginia, Tennessee, Mississippi, north Ala-  
 bama, north Georgia 11 Aug.-19 Oct.
- 5 Chickamauga, Ga. campaign 16 Aug.-22 Sep.  
 Battle of Chickamauga, Ga. 19-20 Sep.
- 6 East Tennessee campaign 16 Aug.-19 Oct.
- 7 Kentucky, southwest Virginia, Tennessee, Mississippi, north Ala-  
 bama, north Georgia 20 Oct.-31 Dec.
- 8 Knoxville, Tenn. campaign 4 Nov.-23 Dec.  
 Siege of Knoxville, Tenn. 17 Nov.-4 Dec.
- 9 Chattanooga-Ringgold campaign 23-27 Nov.  
 Battle of Lookout mountain, Tenn. 24 Nov.  
 Battle of Missionary ridge, Tenn. 25 Nov.

.736

## Campaign of 1864

- 1 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama,  
 north Georgia 1 Jan.-30 Ap.  
 Meridian, Miss. expedition 3 Feb.-6 Mar.  
 Forrest's expedition into west Tennessee and Kentucky  
 16 Mar.-14 Ap.  
 Capture of Fort Pillow, Tenn. 12 Ap.
- 2 N. Carolina, Virginia, W. Va. Maryland, Pennsylvania  
 1 Jan.-30 Ap.  
 Expedition against New Berne, N. C. 28 Jan.-10 Feb.  
 Engagement at Morton's Ford, Va. 6-7 Feb.  
 Kilpatrick's expedition against Richmond, Va. 28 Feb.-4 Mar.
- 3 Louisiana, trans-Mississippi 1 Jan.-30 June  
 Red river, La. campaign 10 Mar.-22 May  
 Camden, Ark. expedition 23 Mar.-3 May
- 4 South Carolina, Florida, Georgia coast 1 Jan.-13 Nov.  
 Charleston, S. C. harbor and vicinity  
 Florida expedition 5-22 Feb.  
 Engagement at Olustee or Ocean Pond, Fla. 20 Feb.
- 5 Southeastern Virginia, North Carolina 1 May-12 June  
 Engagement at Proctor's Creek and Drewry's Bluff or Fort  
 Darling, Va. 12-16 May  
 Operations on the Bermuda Hundred, Va. front 17 May-2 June  
 Engagement at Petersburg, Va. 9 June  
 Battle of the Wilderness, Va. 5-7 May
- 7 Operations about Spottsylvania Court-House, Va. 8-21 May
- 8 Operations at and about Cold Harbor, Va. 31 May-12 June
- 9 Northern Virginia, West Virginia, Maryland, Pennsylvania  
 1 May-3 Aug.  
 Engagement at New Market, Va. 15 May  
 Lynchburg, Va. campaign 26 May-29 June  
 Battle of the Monocacy, Md. 9 July  
 Action near Fort Stevens, D. C. 12 July

Campain of 1864, *continued*

- 1 Northern Georgia 1 May-8 Sep.  
Atlanta, Ga. campaign  
Battle of Atlanta, Ga. 22 July
- 2 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama  
north Georgia 1 May-13 Nov.  
Engagement at Harrisburg, near Tupelo, Miss. 14-15 July  
Operations in Mobile bay, Ala. 2-23 Aug.  
Engagement at Allatoona, Ga. 5 Oct.
- 3 Southeastern Virginia, North Carolina 13 June-31 July  
Richmond, Va. campaign  
Assaults on the Petersburg lines 15-18 June  
Explosion of the mine and assault on the crater 30 July
- 4 Louisiana, trans-Mississippi 1 July-31 Dec.  
Price's Missouri expedition 29 Aug.-2 Dec.
- 5 Southeastern Virginia, North Carolina 1 Aug.-31 Dec.  
Richmond, Va. campaign  
Expedition to Fort Fisher, N. C. 7-27 Dec.
- 6 Northern Virginia, West Virginia, Maryland, Pennsylvania  
4 Aug.-31 Dec.
- 7 Shenandoah valley campaign, Va. 7 Aug.-28 Nov.  
Battle of Winchester, or the Opequon, Va. 19 Sep.  
Battle of Cedar creek, Va. 19 Oct.
- 8 South Carolina, Georgia, Florida 14 Nov.-31 Dec.  
Savannah, Ga. campaign, or Sherman's march to the sea  
15 Nov.-21 Dec.
- 9 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama,  
north Georgia 14 Nov.-23 Jan. 1865  
Battle of Franklin, Tenn. 30 Nov.  
Battle of Nashville, Tenn. 15-16 Dec.

.738

## Campain of 1865

- 1 Northern and southeastern Virginia, North Carolina, West Virginia,  
Maryland, Pennsylvania 1 Jan.-30 June
- 2 Richmond, Va. campaign 1 Jan.-3 Ap.
- 3 Expedition to and capture of Fort Fisher, N. C. 3-17 Jan.
- 4 Appomattox, Va. campaign 29 Mar.-9 Ap.  
Battle of Five Forks, Va. 1 Ap.  
Surrender of Gen. Lee 9 Ap.
- 5 North Carolina, South Carolina, southern Georgia, east Florida  
1 Jan.-30 June  
Campaign of the Carolinas 1 Jan.-26 Ap.
- 6 Louisiana, trans-Mississippi 1 Jan.-30 June
- 7 Kentucky, southwestern Virginia, Tennessee, northern and central  
Georgia, Mississippi, Alabama, west Florida 1 Jan.-30 June  
Wilson's raid from Chickasaw to Selma, Ala. and Macon, Ga.  
22 Mar.-24 Ap.
- 8 Mobile, Ala. campaign 17 Mar.-4 May
- 9 Pacific coast 1 Jan. 1861-30 June 1865

973.74 General military history

.741 Northern side

- 1 Regular army
- 2 Volunteers, quotas
- 3 Bounties
- 4 Drafts
- 5 Negro troops
- 6 Special armies or corps
  - Army of the Cumberland
  - Army of the Potomac
  - 2d army corps
  - 19th army corps etc.
- 7 Special branches or services
  - Cavalry
  - Artillery
  - Engineers
  - Signal servis
  - Guerrillas
  - Commissariat
- 8 General orders
- 9 Regimental losses

.742 Southern side

Guerrillas

.743 Foren elements

Divided like 940

.744-749 Separate states and regimental histories

Divided like 974-979; 973.7444, Massachusetts; 973.7447, New York. Under each state arrange books by the following book numbers

A for official publications

A 1 Adjutant-general's reports

A 2 Lists of soldiers

B-D, General works on the part taken by the state in the conflict

E Histories of cavalry regiments

F Hevy artillery

G Light artillery

J-L Infantry

J regiments 1-99

K regiments 100-199

L regiments 200-299

The individual regiment is markt by adding its number after the letter; E15, 15th regiment of cavalry; K49, 149th regiment of infantry. When there are more than 9 regiments o must be prefix to the number for the 1st 10 regiments, J09 9th regiment of infantry

For the border states which also had regiments on the confederate side use similarly P-S

P Cavalry

Q Hevy artillery

R Light artillery

S Infantry

For those states which past ordinances of secession (see list under 973.713) reverse these numbers using E-L for confederate regiments and P-S for Union regiments

Special numbers must be arranged for unnumberd and peculiarly numberd regiments and companies

- 973-75 Naval history**  
 During the civil war the navy was mainly used as an auxiliary to the army and nearly all naval actions are also described in connection with special campaigns and battles 973.73 and its subdivisions
- .751 **Events of 1861**  
 Hatteras inlet, N. C. 28 Aug. See also 973.7316  
 Port Royal, S. C. 7 Nov. See also 973.7319  
 Belmont, Mo. 7 Nov. See also 973.7315  
 Trent affair 8 Nov. See also 973.722
- .752 **Events of 1862**  
 Fort Henry, Tenn. 6 Feb. See also 973.7322  
 Roanoke island, N. C. 7-8 Feb. See also 973.7324  
 Fort Donelson, Tenn. 14 Feb. See also 973.7322  
 Monitor and Merrimac 8-9 Mar.  
 Island no. 10, Ky. 16 Mar.-8 Ap. See also 973.7325  
 New Orleans, La. 18 Ap.-1 May See also 973.7321  
 Memphis, Tenn. 6 June See also 973.7325
- .753 **Events of 1863**  
 Charleston, S. C. 7 Ap. See also 973.7331  
 Vicksburg, Miss. 16 Ap. See also 973.7343  
 Grand Gulf, Miss. 29 Ap. See also 973.7343
- .754 **Events of 1864**  
 Red river, La. expedition 10 Mar.-22 May See also 973.7363  
 Sassacus and Albemarle, Albemarle sound, N. C. 5 May  
 See also 973.7365  
 Alabama and Kearsarge, off Cherbourg, France 19 June  
 Mobile bay, Ala. 5-22 Aug. See also 973.7372  
 Fort Fisher, N. C. 24 Dec. See also 973.7375
- .755 **Events of 1865**  
 Fort Fisher, N. C. 14-15 Jan. See also 973.7383
- .756 **History of special squadrons or ships**  
 Atlantic squadron  
 Gulf squadron
- .757 **Confederate navy**  
 Including the history of special squadrons or ships  
 Alabama  
 Shenandoah  
 Florida
- .758 **Blockade and blockade running**
- .759 **Privateers**
- .76 **War meetings, celebrations, anniversaries, commemorations**  
 See note under 973.36  
 For patriotic societies commemorating the civil war see 369.15-17
- .761 **War meetings**
- .762
- .763 **Flags; presentations of flags; Battle-flag day**
- .764
- .765 **Monuments, memorials** See also 718
- .766
- .767 **Roll of honor** List of ded For national cemeteries, see 719
- .768 **Memorial day**

- 973-77 Prisons, hospitals, charities, etc.
- .771 Southern prisons, prison life
- 1 Andersonville
- 2 Libby prison
- .772 Northern prisons
- .773 Exchange of prisoners, paroles
- .774
- .775 Medical dep't, surgeons, nurses For military surgery see 617.99
- .776 Hospitals, hospital sketches
- .777 Charities
- 1 U. S. sanitary commission
- 2 Sanitary fairs
- Soldiers homes, see 362.8
- Soldiers orphan asylums, see 362.7
- Freedmen's bureau, see 361
- Pensions, 351.5
- .778 Religious life, chaplains, revivals
- 1 U. S. Christian commission See also 267.11
- .78 Personal narrativs, vindication, secret servis
- Personal narrativs when relating to some special battle or event should be class according to their subject
- .781 Personal narrativs, northern side
- Including volumes of G. A. R. papers and Loyal legion
- .782 Personal narrativs, southern side
- .783 Army life
- .784 Southern army life, southern home life
- .785 Secret servis, spies
- .786 Southern side
- .79 Illustrativ material
- See note under 973.39
- .791 Poetry
- .792 Drama
- .793 Fiction
- .794 Addresses
- .795 Sermons
- .796 Humor
- .797 Pictures
- .798 Music
- .799 Maps
- .8 Later 19th century 1865-1901
- Period of reconstruction and civil servis reform
- .81 Andrew Johnson 15 Ap. 1865-4 Mar. 1869
- Born 29 Dec. 1808; died 31 July 1875
- 13th amendment abolishing slavery, adopted 18 Dec. 1865
- See also 326.8 and 342.739
- Penian invasion of Canada 31 May-2 June 1866 See also 971
- Nebraska admitted, 37th state 1 Mar. 1867 See 978.2
- Cession of Alaska by Russia 20 June 1867
- Impeachment of Pres. Johnson Mar.-May 1868 See 351.99
- 14th amendment guaranteeing citizenship, adopted 28 July 1868
- See 342.739

Born 27 Ap. 1822; died 23 July 1885

Treaty for annexation of Santo Domingo, signed 29 Nov. 1869; rejected by senate 30 June 1870 See also 972.93

15th amendment guaranteeing suffrage, adopted 30 Mar. 1870

See 324.1 and 342.739

First provision for civil service reform 3 Mar. 1871 See also 351.6

Geneva arbitration award 14 Sep. 1872 See 341.6; 973.722; 973.757

Northwestern or San Juan boundary decision, Emperor William I of Germany, arbitrator 23 Oct. 1872

Crédit mobilier investigation Dec. 1872-Feb. 1873

Coinage act 12 Feb. 1873 See 332.47

Modoc war, California Nov. 1872-June 1873

Financial panic 19-30 Sep. 1873 See 332

Virginius incident Oct.-Dec. 1873

Whisky ring 1872-75 See 336.73

Civil rights act 1 Mar. 1875

Colorado admitted, 38th state 1 Aug. 1876 See 978.8

Centennial exposition, Philadelphia 10 May-10 Nov. 1876 See 606

Electoral commission Feb. 1877

.83

Rutherford Birchard Hayes

4 Mar. 1877-4 Mar. 1881

Born 4 Oct. 1822; died 17 Jan. 1893

Halifax fishery award 23 Nov. 1877

Bland silver act 28 Feb. 1878 See 332.47

Resumption of specie payment 1 Jan. 1879 See 332.5 and 336.73

.84

James Abram Garfield

4 Mar. 1881-19 Sep. 1881

Born 19 Nov. 1831; died 19 Sep. 1881

Chester Alan Arthur

19 Sep. 1881-4 Mar. 1885

Born 5 Oct. 1830; died 18 Nov. 1886

International cotton exposition 5 Oct.-31 Dec. 1881 See 606

Edmund act to suppress polygamy 22 Mar. 1882 See also 298

Pendleton civil service reform act 11 Jan. 1883 See 351.6

.85

Grover Cleveland

4 Mar. 1885-4 Mar. 1889

Born 18 Mar. 1839; died 24 June 1908

Act regulating the presidential succession 19 Jan. 1886 See 353.03

Mexican war pension act 29 Jan. 1887 See 351.5

Act creating Interstate commerce commission 4 Feb. 1887 See 385

Dependent pension bill vetoed 11 Feb. 1887 See 351.5

Centennial anniversary of Constitution, Philadelphia, Pa.

15-17 Sep. 1887

Act to establish the Labor dept 13 June 1888 See 331

Fisheries treaty, signed 15 Feb. 1888; rejected by senate 21 Aug. 1888

See 333.9 and 341.273

Act to make Agriculture dept an executive dept 9 Feb. 1889

See also 630.6 and 353.8

- 973.86 **Benjamin Harrison** 4 Mar. 1889-4 Mar. 1893  
 Born 20 Aug. 1833; died 13 Mar. 1901  
 Opening of Oklahoma 2 Ap. 1889 See 976.6  
 North Dakota admitted, 39th state 2 Nov. 1889 See 978.4  
 South Dakota admitted, 40th state 2 Nov. 1889 See 978.3  
 Montana admitted, 41st state 8 Nov. 1889 See 978.6  
 Washington admitted, 42d state 11 Nov. 1889 See 979.7  
 International American conference 2 Oct. 1889-19 Ap. 1890  
 See 341.1  
 Idaho admitted, 43d state 3 July 1890 See 979.6  
 Wyoming admitted, 44th state 10 July 1890 See 978.7  
 Sherman silver act, repealing silver act of 1878 14 July 1890  
 See 332.47  
 McKinley tariff act 1 Oct. 1890 See 337.3  
 Controversy with Chile Oct. 1891-July 1892 See 983  
 Geary Chinese exclusion act 5 May 1892 See 325.251  
 Bering sea arbitration treaty 23 Aug. 1892  
 Hawaiian annexation treaty sent to senate, 15 Feb. 1893; withdrawn,  
 9 Mar. 1893 See 996.9
- .87 **Grover Cleveland, second term** 4 Mar. 1893-4 Mar. 1897  
 World's Columbian exposition, Chicago 1 May-30 Oct. 1893  
 See 606  
 Decision of Bering sea court of arbitration 15 Aug. 1893  
 Voorhees silver act 1 Nov. 1893 See 332.47  
 Wilson tariff act 27 Aug. 1894 See 337.2  
 Income tax law decided unconstitutional by U. S. supreme court  
 8 Ap. 1895 See 336.24  
 U. S. commission on boundary between Venezuela and British Guiana  
 appointed 1 Jan. 1896 See 987  
 Utah admitted, 45th state 4 Jan. 1896 See 979.2
- .88 **William McKinley** 4 Mar. 1897-14 Sep. 1901  
 Born 29 Jan. 1844; died 14 Sep. 1901  
 Dingley tariff act 24 July 1897  
 Annexation of Hawaii 7 July 1898
- .89 War with Spain  
 War declared 21 Ap. 1898  
 Protocol signed 12 Aug. 1898  
 Treaty of peace signed at Paris, 10 Dec. 1898; ratified, 11 April  
 1899
- .891 Political history; causes, results  
 Spanish misrule in Cuba  
 Destruction of battleship Maine 15 Feb. 1898  
 Acquisition of Philippines and Porto Rico
- .892 Diplomatic history
- .893 Special campaigns and battles  
 Siege of Santiago 22 June-17 July 1898  
 Battle of El Caney 1 July 1898
- .894 General military history  
 May be subdivided like 973.74
- .895 Naval history  
 Battle of Manila 1 May 1898  
 Sinking of the Merrimac 3 June 1898  
 Destruction of Cervera's squadron 3 July 1898
- .896 War meetings, celebrations, anniversaries
- .897 Prisons, hospitals, etc.
- .898 Personal narratives
- .899 Illustrative materials
- .91 **Early 20th century** 1901-
- .911 **Theodore Roosevelt** 14 Sep. 1901-4 Mar. 1909  
 Born 27 Oct. 1858
- .912 **William Howard Taft** 4 Mar. 1909-4 Mar. 1913  
 Born 15 Sep. 1857
- .913 **Woodrow Wilson** 4 Mar. 1913-  
 Born 28 Dec. 1856



## 974 Northeastern or North Atlantic New England

**.1 Maine**

Admitted 15 Mar. 1820 as 23d state  
 Area 33,040 sq. mi. 16 counties  
 Population 742,371 in 1910  
 Sobriquets: Pinetree state, Polar Star state

*Population in 1910*

.11	Aroostook	74 664
.12	Somerset	36 301
	Piscataquis	19 887
.13	Penobscot	85 285
.14	Washington	42 905
	Hancock	35 575
.15	Waldo	23 383
	Knox	28 981
	Lincoln	18 216
.16	Kennebec	62 863
.17	Franklin	19 119
	Oxford	36 256
.18	Androscoggin	59 822
	Sagadahoc	18 574
.19	Cumberland	112 014
	<i>Portland</i>	58 571
	York	68 526

**.2 New Hampshire**

Area 9341 sq. mi. 10 counties  
 Population 430,572 in 1910  
 Sobriquet: Granite state

*Population in 1910*

.21	Coos	30 753
.22	<i>White mts</i>	
.23	Grafton	41 652
.24	Carroll	16 316
	Belknap	21 304
.25	Strafford	38 951
.26	Rockingham	52 188
.27	Merrimac	53 335
	Sullivan	19 337
.28	Hillsboro	126 072
.29	Cheshire	30 659

**.3 Vermont**

Area 9564 sq. mi. 14 counties  
 Population 355,956 in 1910  
 Sobriquet: Green Mt state

*Population in 1910*

.31	Grand Isle	3 761
	Franklin	29 866
	Chittenden	42 447
.32	Orleans	23 337
	Essex	7 384
.33	Caledonia	26 031
	Lemoille	12 585
.34	Washington	41 702
.35	Addison	20 010
.36	Orange	18 703
	Windsor	33 681
.37	Rutland	48 139
.38	Bennington	21 378
.39	Windham	26 932

974.4

**Massachusetts**

Area 8266 sq. mi. 14 counties  
 Population 3,366,416 in 1910  
 Sobriquet: Bay state

		<i>Population in 1910</i>	
.41	Berkshire	105	259
.42	Franklin	43	600
	Hampshire	63	327
	Hampden	231	369
.43	Worcester	399	657
.44	Middlesex	669	915
.45	Essex	436	477
.46	Suffolk	731	388
	<i>Boston</i>		670 585
.47	Norfolk	187	506
.48	Plymouth	144	337
	Bristol	318	573
.49	Barnstable	27	542
	Dukes	4	504
	Nantucket	2	962

**.5 Rhode Island**

Area 1248 sq. mi. 5 counties  
 Population 542,610 in 1910  
 Sobriquet: Little Rhody

		<i>Population in 1910</i>	
.51	Providence	424	353
.52	<i>Providence (city)</i>		224 326
.53	<i>Pawtucket</i>		51 622
.54	Kent	36	378
.55	Bristol	17	602
.56	Newport	39	335
.57	<i>Newport (city)</i>		27 149
.58	<i>Block Island</i>		
.59	Washington	24	942

**.6 Connecticut**

Area 4965 sq. mi. 8 counties  
 Population 1,114,756 in 1910  
 Sobriquet: Wooden Nutmeg state

		<i>Population in 1910</i>	
.61	Litchfield	70	260
.62	Hartford	250	182
.63	<i>Hartford (city)</i>		98 915
.64	Tolland	26	459
	Windham	48	361
.65	New London	91	253
.66	Middlesex	45	637
.67	New Haven	337	282
.68	<i>New Haven (city)</i>		133 605
.69	Fairfield	245	322

## New York

Area 49,204 sq. mi. 61 counties (exclusiv of Bronx)  
 Population 9,113,614 in 1910  
 Sobriquet: Empire state

		<i>Population in 1910</i>	
.71	<i>New York (city)</i>	4	766 883
.72	Vicinity of New York city		
.721	<b>Long Island</b>		2 098 460
.722	Kings county	1	634 351
.723	<i>Brooklyn</i>		1 634 351
.724	Queens county		284 041
5	Nassau " "		83 930
.725	Suffolk " "		96 138
.726	Richmond "   Staten Island		85 969
.727	Westchester " "		283 055
5	<i>Bronx boro (and county)</i>		430 980
.728	Rockland county		46 873
.73	<b>Southeast counties</b>		
.731	Orange, <i>West Point</i>		116 001
.732	Putnam		14 665
.733	Dutchess		87 661
.734	Ulster		91 769
.735	Sullivan		33 808
.736	Delaware		45 575
.737	Green		30 214
.738	<i>Catskill mts</i>		
.739	Columbia		43 658
.74	<b>Middle east counties</b>		
.741	Rensselaer		122 276
	<i>Troy</i>		76 813
.742	Albany		173 666
.743	<i>Albany (city)</i>		100 253
.744	Schenectady		88 235
.745	Schoharie		23 855
.746	Montgomery		57 567
.747	Fulton		44 534
.748	Saratoga		61 917
.749	Washington		47 778
.75	<b>Northern counties</b>		
.751	Warren		32 223
	<i>Lake George</i>		
.752	Hamilton		4 373
.753	Essex		33 458
	<i>Adirondacks</i>		
.754	Clinton		48 230
	<i>Lake Champlain</i>		
.755	Franklin		45 717
.756	St Lawrence		89 005
.757	Jefferson		80 382
.758	<i>Thousand Islands</i>		
.759	Lewis		24 849

## New York

		<i>Population in 1910</i>	
974.76	North central counties		
.761	Herkimer	56	356
.762	Oneida	154	157
.763	<i>Utica</i>		74 419
.764	Madison	39	289
.765	Onondaga	200	298
.766	<i>Syracuse</i>		137 249
.767	Oswego	71	664
.768	Cayuga	67	106
.769	Seneca	26	972
.77	South central counties		
.771	Tompkins	33	647
.772	Cortland	29	249
.773	Chenango	35	575
.774	Otsego	47	216
.775	Broome	78	809
.776	<i>Binghamton</i>		48 443
.777	Tioga	25	624
.778	Chemung	54	662
.779	<i>Elmira</i>		37 176
.78	West central counties		
.781	Schuyler	14	004
.782	Yates	18	642
.783	Steuben	83	362
.784	Alleghany	41	412
.785	Livingston	38	037
.786	Ontario	52	286
.787	Wayne	50	179
.788	Monroe	283	212
.789	<i>Rochester</i>		218 149
.79	Western counties		
.791	Orleans	32	000
.792	Genesee	37	615
.793	Wyoming	31	880
.794	Cattaraugus	65	919
.795	Chautauqua	105	126
.796	Erie	528	985
.797	<i>Buffalo</i>		423 715
.798	Niagara	92	036
.799	<i>Niagara Falls</i>		30 445

## Pennsylvania

Area 45,126 sq. mi. 68 counties

Population 7,665,111 in 1910

Sobriquet: Keystone state

.81 Southeast counties		Philadelphia and Chester group	
		<i>Population in 1910</i>	
.811	Philadelphia (co. and city)	1 549 008	
.812	Montgomery	169 590	
.813	Chester	109 213	
.814	Delaware	117 906	
.815	Lancaster	167 029	
.816	Berks	183 222	
.817	Schuykill	207 894	
.818	Dauphin	136 152	
.819	Lebanon	59 565	
.82 Eastern counties		Bucks group	
.821	Bucks	76 530	
.822	Northampton	127 667	
.823	Wayne	29 236	
.824	Pike	8 033	
.825	Monroe	22 941	
.826	Carbon	52 846	
.827	Lehigh	118 832	
.83 Northeast counties		Northumberland group	
.831	Northumberland	111 420	
.832	Luzerne	343 186	
.833	<i>Wilkesbarre</i>		67 105
.834	Susquehanna	37 746	
.835	Wyoming	15 509	
.836	Lackawanna	259 570	
.837	<i>Scranton</i>		129 867
.838	Columbia	48 467	
.839	Montour	14 868	
.84 Southeast central counties		Cumberland group	
.841	York	136 405	
.842	Adams	34 319	
.843	Cumberland	54 479	
.844	Franklin	59 775	
.845	Perry	24 136	
.846	Mifflin	27 785	
.847	Juniata	15 013	
.848	Union	16 249	
.849	Snyder	16 800	
.85 Northeast central counties		East Lycoming group	
.851	Lycoming	80 813	
.852			
.853	Center	43 424	
.854	Clinton	31 545	
.855	Potter	29 729	
.856	Tioga	42 829	
.857	Bradford	54 526	
.858			
.859	Sullivan	11 293	

## Pennsylvania

974.86	Northwest central counties	West Lycoming group	
.861	Clearfield	93 768	
.862	Jefferson	63 090	
.863	McKean	47 868	
.864			
.865	Elk	35 871	
.866	Cameron	7 644	
.867	Warren	39 573	
.868	Forest	9 435	
.869	Clarion	36 638	
.87	Southwest central counties	Bedford group	
.871	Bedford	38 879	
.872	Fulton	9 703	
.873	Huntington	38 304	
.874			
.875	Blair	108 858	
.876	<i>Altoona</i>		52 127
.877	Cambria	166 131	
.878			
.879	Somerset	67 717	
.88	Southwest counties	Westmoreland group	
.881	Westmoreland	231 304	
.882	Washington	143 680	
.883	Greene	28 882	
.884	Fayette	167 449	
.885	Allegheny	1 018 763	
.886	<i>Pittsburg</i>		533 905
.887	<i>Allegheny City</i>		
	Annex to Pittsburg in 1907		
.888	Armstrong	67 880	
.889	Indiana	66 210	
.89	Northwest counties	Allegheny group	
.891	Butler	72 689	
.892	Beaver	78 353	
.893	Lawrence	70 032	
.894			
.895	Merçer	77 699	
.896	Venango	56 359	
.897	Crawford	61 565	
.898			
.899	Erie	115 517	
.9	<b>New Jersey</b>		
	Area 8224 sq. mi. 21 counties		
	Population 2,537,167 in 1910		
	Sobriquet: Jersey blue state		
.91	<u>East Jersey</u>	<i>Population in 1910</i>	
.92	Northern counties		
.921	Bergen	138 002	
.922			
.923	Passaic	215 902	
.924	<i>Paterson</i>		125 600
.925			
.926	Hudson	537 231	
.927	<i>Jersey City</i>		267 779
.928	<i>Hoboken</i>		70 324

## New Jersey

974.93	Central counties		
.931	Essex	512 866	
.932	<i>Newark</i>		347 469
.933	<i>Orange</i>		29 630
.934			
.935			
.936	Union	140 197	
.937	<i>Elizabeth</i>		73 409
.938	<i>Rahway</i>		9 337
.94	Southern counties		
.941	Middlesex	114 426	
.942	<i>New Brunswick</i>		23 388
.943			
.944	Somerset	38 820	
.945			
.946	Monmouth	94 734	
.947			
.948	Ocean	21 318	
.95	West Jersey		
.96	Central counties		
.961	Burlington	66 565	
.962			
.963			
.964			
.965	Mercer	125 657	
.966	<i>Trenton</i>		96 815
.967	<i>Princeton</i>		5 136
.97	Northern counties		
.971	Hunterdon	33 569	
.972	<i>Raritan</i>		3 672
.973			
.974	Morris	74 704	
.975			
.976	Sussex	26 781	
.977			
.978	Warren	43 187	
.98	Upper southern counties		
.981	Gloucester	37 368	
.982			
.983			
.984	Atlantic	71 894	
.985			
.986			
.987	Camden	142 029	
.988	<i>Camden (city)</i>		94 538
.99	Lower southern counties		
.991	Salem	26 999	
.992	<i>Salem City</i>		6 614
.993			
.994	Cumberland	55 153	
.995	<i>Bridgeton</i>		14 209
.996			
.997			
.998	Cape May	19 145	

# 975 Southeastern or South Atlantic

Including general works on 'the South'

## .1 Delaware

Area 1965 sq. mi.  
 Population 202,322 in 1910  
 3 counties  
 Sobriquets: Blue hen state, Diamond state

		<i>Population</i>
.11	Newcastle	123 188
.12	<i>Wilmington</i>	87 411
.14	Kent	32 721
.17	Sussex	46 413

## .2 Maryland

Area 12,327 sq. mi.  
 Population 1,295,346 in 1910      23 counties and Baltimore city  
 Sobriquet: Old line state

### .21 Eastern Maryland

.221	Worcester	21 841
.223	Somerset	26 455
.225	Wicomico	26 815
.227	Dorchester	28 669
.231	Caroline	19 216
.232	Talbot	19 620
.234	Queen Anne	16 839
.236	Kent	16 957
.238	Cecil	23 759

### .24 Southern Maryland

.241	St Mary	17 030
.244	Calvert	10 325
.247	Charles	16 386
.251	Prince George	36 147
.255	Anne Arundel	39 553
.256	<i>Annapolis</i>	8 609
.26	<i>Baltimore (city)</i>	558 485

### .27 North central

.271	Baltimore	122 349
.274	Harford	27 965
.277	Carroll	33 934
.281	Howard	16 106
.284	Montgomery	32 089
.287	Frederick	52 673
.288	<i>Frederick (city)</i>	10 411

### .29 Western

.291	Washington	49 617
.292	<i>Hagerstown</i>	16 507
.294	Allegany	62 411
.295	<i>Cumberland</i>	21 839
.297	Garrett	20 105

## .3 District of Columbia, Washington (city)

Area 70 sq. mi.  
 Population (Washington) 331,069 in 1910



# 975.4 West Virginia

19 June 1863 admitted as 35th state Area 24,780 sq. mi.

Population 958,800 in 1900 55 counties

Sobriquet: Panhandle state

## OUTLINE

.41	<b>Ohio valley</b>		
.411	Northern Panhandle		
.42	Little Kanawha valley		
.43	Kanawha valley		
.44	Southwestern border counties		
.441	Guyandotte valley		
.446	Tug valley		
.45	<b>Central plateau</b>		
.451	Monongahela valley		
.46	Central counties		
.464	Elk valley		
.468	Gauley valley		
.47	New River valley		
.48	<b>Alleghany crest</b>	<b>Mountain counties</b>	
.481	Cheat valley		
.486	Greenbrier valley		
.49	Eastern Panhandle	Potomac valley	
.41	<b>Ohio valley</b>		
.411	<b>Northern Panhandle</b>		
		<i>Population in 1900</i>	
.412	Hancock	6 693	
.413	Brooke	7 219	
.414	Ohio	48 024	
.415	Wheeling		38 878
.416	Marshall	26 444	
.417			
.418	Wetzel	22 880	
.419	Tyler	18 252	
.42	<b>Little Kanawha valley</b>		
.421	Pleasants	9 345	
.422	Wood	34 452	
.423	Parkersburg		11 703
.424	Ritchie	18 901	
.425			
.426	Wirt	10 284	
.427	Gilmer	11 762	
.428			
.429	Calhoun	10 266	
.43	<b>Kanawha valley</b>		
.431	Jackson	22 987	
.432			
.433	Mason	24 142	
.434			
.435	Putnam	17 330	
.436	Roane	19 852	
.437	Kanawha	54 696	
.438	Charleston		11 099
.439	Boone	8 194	

West Virginia: Ohio valley

975.44 Southwestern border counties

.441	Guyandotte valley		
.442	Cabell	29	252
.442 I	<i>Huntington</i>		11 923
.443	Lincoln	15	434
.444	Logan	6	955
.445	Wyoming	8	380
.446	Tug valley		
.447	Wayne	23	619
.448	Mingo	11	359
.449	McDowell	18	747

.45 Central plateau

.45 I Monongahela valley

.452	Monongalia	19	049
.453	<i>Morgantown</i>		1 895
.454	Marion	32	430
.455	Taylor	14	978
.456	Doddridge	13	689
.457	Harrison	27	690
.458	<i>Clarksburg</i>		4 050
.459	Barbour	14	198

.46 Central counties

.461	Lewis	16	980
.462	Upshur	14	696
.463			
.464	Elk valley		
.465	Webster	8	862
.466	Braxton	18	904
.467	Clay	8	248
.468	Gauley valley		
.469	Nicholas	11	403

.47 New River valley

.471	Fayette	31	987
.472			
.473	Raleigh	12	436
.474	Mercer	23	923
.475			
.476	Summers	16	265
.477			
.478	Monroe	13	130
.479			

## West Virginia

975.48	Alleghany crest	Mountain counties
.481	Cheat valley	
.482	Preston	22 727
.483	Tucker	13 433
.484		
.485	Randolph	17 670
.486	Greenbrier valley	
.487	Pocahontas	8 572
.488	Greenbrier	20 683
.489	<i>White Sulphur Springs</i>	
.49	Eastern Panhandle	Potomac valley
.491	Pendleton	9 167
.492	Grant	7 275
.493	Hardy	8 449
.494	Mineral	12 883
.495	Hampshire	11 806
.496	Morgan	7 294
.497	Berkeley	19 469
.498		
.499	Jefferson	15 935

## .5 Virginia

17 Ap. 1861 seceded; 26 Jan. 1870 readmitted Area 40,262 sq. mi.  
Population 2,061,612 in 1910 100 counties  
Sobriquets: Old Dominion, Mother of Presidents

## .6 North Carolina

20 May 1861 seceded; 25 June 1868 readmitted Area 48,740 sq. mi.  
Population 2,206,287 in 1910 98 counties  
Sobriquet: Old North state

## .7 South Carolina

20 Dec. 1860 seceded; 25 June 1868 readmitted Area 30,495 sq. mi.  
Population 1,515,400 in 1910 43 counties  
Sobriquet: Palmetto state

## .8 Georgia

19 Jan. 1861 seceded; 25 June 1868 readmitted Area 58,725 sq. mi.  
Population 2,609,121 in 1910 146 counties  
Sobriquet; Cracker state

## .9 Florida

1512 discovered by Ponce de Leon; 1565 settled by Spaniards; 22 Feb. 1819  
bought of Spain  
30 Mar. 1822 organized as territory  
3 Mar. 1845 admitted as 27th state  
10 Jan. 1861 seceded; 25 June 1868 readmitted Area 54,861 sq. mi.  
Population 752,619 in 1910 47 counties  
Sobriquets: Everglade, Gulf state

## 976 South Central or Gulf

### .1 Alabama

1702 settled by French  
14 Dec. 1819 admitted as 22d state  
11 Jan. 1861 seceded; 25 June 1868 readmitted Area 51,279 sq. mi.  
Population 2,138,093 in 1910 67 counties  
Sobriquet: Land of Flowers

### .2 Mississippi

7 Ap. 1798 organized as territory; 10 Dec. 1817 admitted as 20th state  
9 Jan. 1861 seceded; 17 Feb. 1870 readmitted Area 46,362 sq. mi.  
Population 1,797,114 in 1910 79 counties  
Sobriquet: Bayou state

### .3 Louisiana

1699 settled by French 30 Ap. 1803 bought of France 1 Oct. 1804 organized as Territory of Orleans  
8 Ap. 1812 Louisiana admitted as 18th state  
26 Jan. 1861 seceded; 25 June 1868 readmitted Area 45,409 sq. mi.  
Population 1,656,388 in 1910 60 parishes  
Sobriquets: Pelican state, Creole state

### .4 Texas

20 Dec. 1835 independence from Mexico declared; 2 Mar. 1836 republic formed  
29 Dec. 1845 annexed as 28th state  
1 Feb. 1861 seceded; 30 Mar. 1870 readmitted Area 262,398 sq. mi.  
Population 3,896,542 in 1910 245 counties  
Sobriquet: Lone Star state

### .5

### .6 Indian Territory Oklahoma

30 June 1834 assigned to Indians (part of Louisiana purchase)  
Area 30,790 sq. mi.  
Population 800,000 in 1906

**Oklahoma** organized as separate territory 2 May 1890

16 Nov. 1907 admitted as 46th state Area 69,414 sq. mi.  
Population 1,657,155 in 1910 77 counties

### .7 Arkansas

4 June 1812 included in Missouri territory; 2 Mar. 1819 organized as Arkansas territory  
15 June 1836 admitted as 25th state  
6 May 1861 seceded; 22 June 1868 readmitted Area 52,525 sq. mi.  
Population 1,574,449 in 1910 75 counties  
Sobriquet: Bear state

### .8 Tennessee

1769 settled from Virginia; 14 Dec. 1784 organized by settlers as state of Franklin (or Frankland)  
1 June 1796 admitted as 16th state  
8 June 1861 seceded; 24 July 1866 readmitted Area 41,687 sq. mi.  
Population 2,184,789 in 1910 96 counties  
Sobriquet: Big Bend state

### .9 Kentucky

1775 settled by Daniel Boone; 29 May 1790 territory organized  
1 June 1792 admitted as 15th state Area 40,181 sq. mi.  
Population 2,289,905 in 1910 119 counties  
Sobriquet: Blue Grass state

## 977 North Central or Lake

## .I Ohio

19 Feb 1803 admitted as 17th state Area 40,760 sq. mi.

Population 4,157,545 in 1900 88 counties

Sobriquet: Buckeye state

## .II Northwest counties

		<i>Population in 1900</i>	
.111	Williams	24	953
5	Fulton	22	801
.112	Lucas	153	559
.113	<i>Toledo</i>		131 822
.114	Defiance	26	317
.115	Henry	27	282
.116	Wood	51	555
.117	Paulding	27	528
.118	Putnam	32	525
.119	Hancock	41	993
I	<i>Findlay</i>		17 113

## .12 Central north counties

.121	Ottawa	22	213
4	Sandusky	34	311
.122	Erie	37	650
I	<i>Sandusky (city)</i>		19 664
.123	Lorain	54	857
I	<i>Lorain (city)</i>		16 028
.124	Seneca	41	163
I	<i>Tiffin</i>		10 989
.125	Huron	32	330
.126	Wyandot	21	125
.127	Crawford	33	915
.128	Richland	44	289
I	<i>Mansfield</i>		17 640
.129	Ashland	21	184

## .13 Northeast counties

.131	Cuyahoga	439	120
.132	<i>Cleveland</i>		381 768
.133	Lake	21	680
6	Geauga	14	744
.134	Ashtabula	51	448
I	<i>Ashtabula (city)</i>		12 949
.135	Medina	21	958
.136	Summit	71	715
I	<i>Akron</i>		42 728
.137	Portage	29	246
.138	Trumbull	46	591
.139	Mahoning	70	134
I	<i>Youngstown</i>		44 885

## Ohio

## 977.14 Central west counties

.141	Van Wert	30 394	
5	Mercer	28 021	
.142	Allen	47 976	
1	<i>Lima</i>		21 723
.143	Auglaize	31 192	
.144	Hardin	31 187	
.145	Shelby	24 625	
.146	Logan	30 420	
5	Champaign	26 642	
.147	Darke	42 532	
.148	Miami	43 105	
1	<i>Piqua</i>		12 172
.149	Clark	58 939	
1	<i>Springfield</i>		38 253

## .15 Central counties

.151	Marion	28 678	
1	<i>Marion (city)</i>		11 862
6	Morrow	17 879	
.152	Knox	27 768	
.153	Union	22 342	
5	Delaware	26 401	
.154	Licking	47 070	
1	<i>Newark</i>		18 157
.155	Madison	20 590	
.156	Franklin	164 460	
.157	<i>Columbus</i>		125 560
.158	Fairfield	34 259	
.159	Perry	31 841	

## .16 Central east counties

.161	Wayne	37 870	
.162	Stark	94 747	
1	<i>Canton</i>		30 667
3	<i>Massillon</i>		11 944
.163	Columbiana	68 590	
1	<i>East Liverpool</i>		17 485
.164	Holmes	19 511	
.165	Coshocton	29 337	
.166	Tuscarawas	53 751	
.167	Carroll	16 811	
.168	Harrison	20 486	
.169	Jefferson	44 357	
1	<i>Steubenville</i>		14 349

## .17 Southwest counties

.171	Preble	23 713	
.172	Montgomery	130 146	
.173	<i>Dayton</i>		85 333
.174	Greene	31 613	
.175	Butler	56 870	
1	<i>Hamilton (city)</i>		23 914
.176	Warren	25 584	
5	Clinton	24 202	
.177	Hamilton	409 479	
.178	<i>Cincinnati</i>		325 902
.179	Clermont	31 610	
6	Brown	28 237	

## Ohio

977.18

## Central south counties

.181	Fayette	21	725	
5	Pickaway	27	016	
.182	Ross	40	940	
1	<i>Chillicothe</i>			12 976
.183	Hocking	24	398	
7	Vinton	15	330	
.184	Highland	30	982	
7	Pike	18	172	
.185	Jackson	34	248	
.186	Adams	26	328	
.187	Scioto	40	981	
1	<i>Portsmouth</i>			17 870
.188	Lawrence	39	534	
1	<i>Ironton</i>			11 868
.189	Gallia	27	918	

## .19 Southeast counties

.191	Muskingum	53	185	
1	<i>Zanesville</i>			23 538
.192	Guernsey	34	425	
.193	Belmont	60	875	
.194	Morgan	17	905	
.195	Noble	19	466	
.196	Monroe	27	031	
.197	Athens	38	730	
1	<i>Marietta</i>			13 348
.198	Washington	48	245	
.199	Meigs	28	620	

## .2 Indiana

1809 Indiana territory with present boundaries established

11 Dec. 1816, Indiana admitted as 19th state Area 36,350 sq. mi.

Population 2,192,404 in 1890 92 counties

Sobriquet: Hoosier state

.21	Southeast counties	<i>Population</i>		
.211	Dearborn	23	364	
.212	Ohio	4	955	
	Switzerland	12	514	
.213	Jefferson	24	507	
.214	Ripley	19	350	
.215	Franklin	18	366	
.216	Decatur	19	277	
.217	Jennings	14	608	
.218	Scott	7	833	
	Clark	30	259	
	<i>Jeffersonville</i>			10 666
.219	Floyd	29	458	
	<i>New Albany</i>			21 059
.22	Central south counties			
.221	Harrison	20	786	
.222	Washington	18	619	
.223	Jackson	24	139	
.224	Bartholomew	23	867	
.225	Brown	10	300	
	Monroe	17	673	
.226	Lawrence	19	792	
.227	Orange	14	678	
.228	Crawford	13	941	
.229	Perry	18	240	

# Indiana

977.23	Southwest counties	Population	
.231	Spencer	22 060	
.232	Warrick	21 161	
.233	Vanderburg	57 809	
	<i>Evansville</i>		50 756
.234	Posey	21 529	
.235	Gibson	24 920	
.236	Pike	18 544	
.237	Dubois	20 253	
.238	Martin	13 973	
	Daviess	26 227	
.239	Knox	28 044	
.24	West central counties		
.241	Sullivan	21 877	
.242	Greene	24 379	
.243	Owen	15 040	
.244	Clay	30 536	
.245	Vigo	50 195	
	<i>Terre Haute</i>		30 217
.246	Vermilion	13 154	
	Parke	20 296	
.247	Fountain	19 558	
.248	Montgomery	28 025	
.249	Putnam	22 335	
.25	Central counties		
.251	Morgan	18 643	
	Johnson	19 561	
.252	Marion	141 156	
	<i>Indianapolis</i>		105 436
.253	Hendricks	21 498	
.254	Boone	26 572	
.255	Clinton	27 370	
	Tipton	18 157	
.256	Hamilton	26 123	
.257	Madison	36 487	
	<i>Anderson</i>		10 741
.258	Hancock	17 829	
.259	Shelby	25 454	
.26	East central counties		
.261	Rush	19 034	
.262	Fayette	12 630	
	Union	7 006	
.263	Wayne	37 628	
	<i>Richmond</i>		16 608
.264	Henry	23 879	
.265	Delaware	30 131	
	<i>Muncie</i>		11 345
.266	Randolph	28 085	
.267	Jay	23 478	
.268	Blackford	10 461	
.269	Grant	31 493	



# Indiana

977.27	Northeast counties	Population	
.271	Huntington	27 644	
.272	Wells	21 514	
.273	Adams	20 181	
.274	Allen	66 680	
	<i>Fort Wayne</i>		35 393
.275	Whitley	17 763	
.276	Noble	23 359	
.277	Dekalb	24 307	
.278	Steuben	14 478	
.279	Lagrange	15 615	
.28	Central north counties		
.281	Elkhart	39 201	
.282	Kosciusko	28 645	
.283	Wabash	27 126	
.284	Miami	25 823	
.285	Howard	26 186	
.286	Cass	31 152	
	<i>Logansport</i>		13 328
.287	Fulton	16 746	
.288	Marshall	23 818	
.289	St Joseph	42 457	
	<i>South Bend</i>		21 819
.29	Northwest counties		
.291	Laporte	34 445	
	<i>Michigan City</i>		10 776
.292	Starke	7 339	
	Pulaski	11 233	
.293	White	15 671	
.294	Carroll	20 021	
.295	Tippecanoe	35 078	
	<i>Lafayette</i>		16 243
.296	Warren	10 955	
.297	Benton	11 903	
	Newton	8 803	
	Jasper	11 185	
.298	Porter	18 052	
.299	Lake	23 886	

## 977-3 Illinois

1809 Illinois territory formed  
 3 Dec. 1818, Illinois admitted as 21st state Area 56,650 sq. mi.  
 Population 3,826,351 in 1890 102 counties  
 Sobriquet: Prairie state

		Population	
		1891	1922
.31	Cook		
	<i>Chicago</i>		1 099 850
.32	Northeast counties		
.321	Lake	24 235	
.322	McHenry	26 114	
.323	Kane	65 061	
	<i>Aurora</i>		19 688
	<i>Elgin</i>		17 823
.324	Dupage	22 551	
.325	Will	62 007	
	<i>Joliet</i>		23 264
.326	Kendall	12 106	
	Grundy	21 024	
.327	Lasalle	80 798	
	<i>Streator</i>		11 414
.328	Dekalb	27 066	
.329	Boone	12 293	
.33	Northwest counties		
.331	Winnebago	39 938	
	<i>Rockford</i>		23 584
.332	Ogle	28 710	
.333	Stephenson	31 338	
	<i>Freeport</i>		10 189
.334	Jo Daviess	25 101	
	Carroll	18 320	
.335	Whiteside	30 854	
.336	Lee	26 187	
.337	Bureau	35 014	
	Putnam	4 730	
.338	Henry	33 338	
.339	Rock Island	41 917	
	<i>Rock Island (city)</i>		13 534
	<i>Moline</i>		12 000
	Mercer	18 545	
.34	West central counties		
.341	Henderson	9 876	
	Warren	21 281	
.342	McDonough	27 467	
.343	Hancock	31 907	
.344	Adams	61 888	
	<i>Quincy</i>		31 494
.345	Pike	31 000	
	Scott	10 304	
.346	Morgan	32 636	
	<i>Jacksonville</i>		12 935
	Cass	15 963	
.347	Brown	11 951	
	Schuyler	16 013	
.348	Fulton	43 110	
.349	Knox	38 752	

# Illinois

977.35

## Central counties

*Population*

.351	Stark	9 982	
	Marshall	13 653	
.352	Peoria	70 378	
	<i>Peoria (city)</i>		41 024
.353	Woodford	21 429	
.354	Tazewell	29 556	
.355	Mason	16 067	
	Menard	13 120	
.356	Sangamon	61 195	
	<i>Springfield</i>		24 963
.357	Logan	25 489	
.358	Macon	38 083	
	<i>Decatur</i>		16 841
	Dewitt	17 011	
.359	McLean	63 036	
	<i>Bloomington</i>		20 434
.36	East central counties		
.361	Livingston	38 455	
.362	Ford	17 035	
.363	Kankakee	28 732	
.364	Iroquois	35 167	
.365	Vermilion	49 905	
	<i>Danville</i>		11 491
.366	Champaign	42 159	
.367	Piatt	17 062	
	Moultrie	14 431	
.368	Douglas	17 669	
.369	Edgar	26 787	
.37	Southeast counties		
.371	Clark	21 899	
.372	Coles	30 093	
.373	Cumberland	15 443	
.374	Jasper	18 188	
.375	Crawford	17 283	
.376	Lawrence	14 693	
.377	Richland	15 019	
.378	Wabash	11 866	
.379	1 Edwards	9 444	
	2 Wayne	23 806	
	3 Jefferson	22 590	
	4 Marion	24 341	
	5 Clay	16 772	
	6 Effingham	19 358	
	7 Fayette	23 367	
	8 Shelby	31 191	

**Illinois**

977.38

**Southwest counties***Population*

.381	Christian	30 531	
.382	Montgomery	30 003	
.383	Macoupin	40 380	
.384	Greene	23 791	
.385	Calhoun	7 652	
	Jersey	14 810	
.386	Madison	51 535	
	<i>Alton</i>		10 294
.387	Bond	14 550	
	Clinton	17 411	
.388	Washington	19 262	
.389	St Clair	66 571	
	<i>Belleville</i>		15 361
	<i>East St Louis</i>		15 169

.39

**Southern counties**

.391	Monroe	12 948	
.392	Randolph	25 049	
.393	Perry	17 529	
.394	Franklin	17 138	
.395	Hamilton	17 800	
.396	White	25 005	
.397	Gallatin	14 935	
.398	Hardin	7 234	
.399			
	1 Pope	14 016	
	2 Saline	19 342	
	3 Williamson	22 226	
	4 Jackson	27 809	
	5 Union	21 549	
	6 Johnson	15 013	
	7 Massac	11 313	
	8 Pulaski	11 355	
	9 Alexander	16 563	
	<i>Cairo</i>		10 324

## Michigan

1805 organized as separate territory  
 26 Jan. 1837, admitted as 26th state Area 78,915 sq. mi.  
 Population 2,093,889 in 1890 84 counties  
 Sobriquets: Wolverine state, Lake state

## Lower peninsula

.41	Southwest counties		
	.411 Berrien	<i>Population</i>	
		41 285	
	.412 Cass	20 953	
	.413 Van Buren	30 541	
	.414 Allegan	38 961	
	.415 Ottawa	35 358	
	.416 Barry	23 783	
	.417 Kalamazoo	39 273	
	.418 <i>Kalamazoo (city)</i>		17 853
	.419 St Joseph	25 356	
.42	Central south counties		
	.421 Branch	26 791	
	.422 Calhoun	43 501	
	<i>Battle Creek</i>		
	.423 Eaton	32 094	13 197
	.424 Clinton	26 509	
	.425 Shiawassee	30 952	
	.426 Ingham	37 666	
	.427 <i>Lansing</i>		13 102
	.428 Jackson	45 031	
	<i>Jackson (city)</i>		20 798
	.429 Hillsdale	30 660	
.43	Southeast counties		
	.431 Lenawee	48 448	
	.432 Monroe	32 337	
	.433 Wayne	257 114	
	.434 <i>Detroit</i>		205 876
	.435 Washtenaw	42 210	
	.436 Livingston	20 858	
	.437 Genesee	39 430	
	.438 Oakland	41 245	
	.439 Macomb	31 813	
.44	Southeast central counties		
	.441 St Clair	52 105	
	<i>Port Huron</i>		13 543
	.442 Lapeer	29 213	
	.443 Sanilac	32 589	
	.444 Huron	28 545	
	.445 Tuscola	32 508	
	.446 Saginaw	82 273	
	<i>Saginaw (city)</i>		46 322
	.447 Bay	56 412	
	<i>Bay City</i>		27 839
	<i>West Bay City</i>		12 981
	.448 Midland	10 657	
	.449 Gratiot	28 668	

## Michigan

977.45	Southwest central counties	<i>Population</i>	
.451	Isabella	18 784	
.452	Mecosta	19 697	
.453	Montcalm	32 637	
.454	Ionia	32 801	
.455	Kent	109 922	
.456	<i>Grand Rapids</i>		60 278
.457	Muskegon	40 013	
	<i>Muskegon (city)</i>		22 702
.458	Newaygo	20 476	
.459	Oceana	15 698	
.46	Northwest central counties		
.461	Mason	16 385	
.462	Manistee	24 230	
	<i>Manistee (city)</i>		12 812
.463	Benzie	5 237	
	Leelanaw	7 944	
.464	Grand Traverse	13 355	
.465	Kalkaska	5 160	
.466	Missaukee	5 048	
.467	Wexford	11 278	
.468	Lake	6 505	
.469	Osceola	15 630	
.47	Northeast central counties		
.471	Clare	7 558	
.472	Gladwin	4 208	
.473	Arenac	5 683	
.474	Iosco	15 224	
.475	Ogemaw	5 583	
.476	Roscommon	2 033	
.477	Crawford	2 962	
.478	Oscoda	1 904	
.479	Alcona	5 409	
.48	Northern counties		
.481	Alpena	15 581	
.482	Presque Isle	4 687	
.483	Montmorency	1 487	
.484	Otsego	4 272	
.485	Antrim	10 413	
.486	Charlevoix	9 686	
.487	Cheboygan	11 986	
.488	Emmet	8 756	
.489	Manitou	860	

## Michigan

977-49	Upper peninsula		
		<i>Population</i>	
.491	Chippewa	12 019	
.492	Mackinac	7 830	
	Luce	2 455	
.493	Alger	1 238	
	Schoolcraft	5 818	
.494	Delta	15 330	
.495	Menominee	33 639	
	<i>Menominee (city)</i>		10 630
	Dickinson	Formed after 1890	
.496	Marquette	39 521	
	<i>Ishpeming</i>		11 197
.497	Baraga	3 036	
	Iron	4 432	
.498	Gogebic	13 166	
	Ontonagon	3 756	
.499	Houghton	35 389	
	Keweenaw	2 894	
	Isle Royale	135	

## .5 Wisconsin

1836 organized as territory

29 May 1848, admitted as 30th state Area 56,040 sq. mi.

Population 2,069,042 in 1900 71 counties

Sobriquet: Badger state

.51	Northwest counties		
		<i>Population in 1900</i>	
.511	Douglas	36 335	
.512	<i>Superior</i>		31 090
.513	Bayfield	14 392	
.514	Burnett	7 478	
.515	Washburn	5 521	
.516	Sawyer	3 593	
.517	Polk	17 801	
.518	Barron	23 677	
.519	Rusk (formerly Gates)		

Name changed from Gates to Rusk in 1905. Gates organized from Chippewa in 1901

.52	Central north counties		
.521	Ashland	20 176	
	<i>Ashland (city)</i>		13 074
.522	Iron	6 616	
.523	Vilas	4 929	
.524	Price	9 106	
.525	Oneida	8 875	
.526	Taylor	11 262	
.527	Lincoln	12 269	
.528	Clark	25 848	
.529	Marathon	43 256	
	<i>Wausau</i>		12 354

## Wisconsin

977-53	Northeast counties		
.531	Forest	1	396
.532	Florence	3	193
.533	Marinette	30	822
.534	<i>Marinette</i> (city)		16 195
.535	Langlade	12	553
.536	Shawano	27	475
.537	Oconto	20	874
.538	Waupaca	31	615
.539	Outagamie	46	247
	<i>Appleton</i>		15 085
.54	Central west counties		
.541	St Croix	26	830
.542	Pierce	23	943
.543	Dunn	25	043
.544	Chippewa	33	037
.545	Eau Claire	31	692
.546	<i>Eau Claire</i> (city)		17 517
.547	Pepin	7	905
.548	Buffalo	16	765
.549	Trempealeau	23	114
.55	Central counties		
.551	Jackson	17	466
.552	Wood	25	865
.553	Portage	29	483
.554	Monroe	28	103
.555	Juneau	20	629
.556	Adams	9	141
.557	Waushara	15	972
.558	Marquette	10	509
.559	Green Lake	15	797
.56	Central east counties		
.561	Brown	46	359
	<i>Green Bay</i> (city)		18 684
.562	Kewaunee	17	212
.563	Door	17	593
.564	Winnebago	58	225
.565	<i>Oshkosh</i>		28 284
.566	Calumet	17	078
.567	Manitowoc	42	261
	<i>Manitowoc</i> (city)		11 786
.568	Fond du Lac	47	589
	<i>Fond du Lac</i> (city)		15 110
.569	Sheboygan	50	345
	<i>Sheboygan</i> (city)		22 962
.57	Southwest counties		
.571	La Crosse	42	997
.572	<i>La Crosse</i> (city)		28 895
.573	Vernon	28	351
.574	Crawford	17	286
.575	Richland	19	483
.576	Sauk	33	006
.577	Grant	38	881
.578	Iowa	23	114
.579	La Fayette	20	959



## Wisconsin

### 977-58 Central south counties

.581	Columbia	31 121	
.582	Dodge	46 631	
.583	Dane	69 435	
.584	<i>Madison</i>		19 164
.585	Jefferson	34 789	
.586	Green	22 719	
.587	Rock	51 203	
	<i>Janesville</i>		13 185
.588	<i>Beloit</i>		10 436
.589	Walworth	29 259	

### .59 Southeast counties

.591	Washington	23 589	
.592	Ozaukee	16 363	
.593	Waukesha	35 229	
.594	Milwaukee	330 017	
.595	<i>Milwaukee (city)</i>		285 315
.596	Racine	45 644	
.597	<i>Racine (city)</i>		29 102
.598	Kenosha	21 707	
.599	<i>Kenosha (city)</i>		11 606

## .6 Minnesota

3 Mar. 1849, organized as territory from Northwest territory and Louisiana purchase  
 11 May 1858, east part admitted as 32d state; west part merged in Dakota territory 1861  
 Population 2,075,708 in 1910  
 Area 80,858 sq. mi. 86 counties

## .7 Iowa

12 June 1838, organized as a territory  
 28 Dec. 1846, admitted as 29th state Area 56,025 sq. mi.  
 Population 2,231,853 in 1900 99 counties  
 Sobriquet: Hawkeye state

### .71 Northwest counties

*Population in 1900*

.711	Lyon	13 165
6	Osceola	8 725
.712	Dickinson	7 995
5	Emmet	9 936
.713	Sioux	23 337
.714	O'Brien	16 985
.715	Clay	13 401
5	Palo Alto	14 354
.716	Plymouth	22 209
.717	Cherokee	16 570
.718	Buena Vista	16 975
.719	Pocahontas	15 339

# Iowa

977.72	Central north counties		
.721	Kossuth	22	720
.722	Winnebago	12	725
.723	Worth	10	887
4	Mitchell	14	916
.724	Hancock	13	752
.725	Cerro Gordo	20	672
.726	Floyd	17	754
.727	Humboldt	12	667
4	Wright	18	227
.728	Franklin	14	996
.729	Butler	17	955
.73	Northeast counties		
.731	Howard	14	512
5	Chickasaw	17	037
.732	Winneshiek	23	731
.733	Allamakee	18	711
.734	Bremer	16	305
.735	Fayette	29	845
.736	Clayton	27	750
.737	Blackhawk	32	399
1	<i>Waterloo</i>		12 580
.738	Buchanan	21	427
5	Delaware	19	185
.739	Dubuque	56	403
1	<i>Dubuque (city)</i>		36 297
.74	Central west counties		
.741	Woodbury	54	610
1	<i>Sioux City</i>		33 111
.742	Ida	12	327
4	Sac	17	639
.743	Calhoun	18	569
.744	Monona	17	980
.745	Crawford	21	685
.746	Carroll	20	319
6	Greene	17	820
.747	Harrison	25	597
.748	Shelby	17	932
6	Audubon	13	626
.749	Guthrie	18	729
.75	Central counties		
.751	Webster	31	757
1	<i>Fort Dodge</i>		12 162
.752	Hamilton	19	514
.753	Hardin	22	794
7	Grundy	13	757
.754	Boone	28	200
6	Story	23	159
.755	Marshall	29	991
1	<i>Marshalltown</i>		11 544
.756	Tama	24	585
.757	Dallas	23	058
.758	Polk	82	624
1	<i>Des Moines</i>		62 139
.759	Jasper	26	976
6	Poweshiek	19	414

Iowa

977.76	Central east counties		
.761	Benton	25	177
.762	Linn	55	392
I	<i>Cedar Rapids</i>		25 656
.763	Jones	21	954
.764	Jackson	23	615
.765	Iowa	19	544
5	Johnson	24	817
.766	Cedar	19	371
.767	Clinton	43	832
I	<i>Clinton (city)</i>		22 698
.768	Muscatine	28	242
I	<i>Muscatine (city)</i>		14 073
.769	Scott	51	558
I	<i>Davenport</i>		35 254
.77	Southwest counties		
.771	Pottawattamie	54	336
I	<i>Council Bluffs</i>		25 802
.772	Cass	21	274
.773	Adair	16	192
.774	Mills	16	764
.775	Montgomery	17	803
.776	Adams	13	601
.777	Fremont	18	546
.778	Page	24	187
.779	Taylor	18	784
.78	Central south counties		
.781	Madison	17	710
.782	Warren	20	376
.783	Marion	24	159
.784	Mahaska	34	273
.785	Union	19	928
6	Clarke	12	440
.786	Lucas	16	126
5	Monroe	17	985
.787	Ringgold	15	325
5	Decatur	18	115
.788	Wayne	17	491
.789	Appanoose	25	927
.79	Southeast counties		
.791	Keokuk	24	979
.792	Washington	20	718
6	Louisa	13	516
.793	Wapello	35	426
I	<i>Ottumwa</i>		18 197
.794	Jefferson	17	437
.795	Henry	20	022
.796	Des Moines	35	989
I	<i>Burlington</i>		23 201
.797	Davis	15	620
.798	Van Buren	17	354
.799	Lee	39	719
I	<i>Keokuk (city)</i>		14 641

## 977.8 Missouri

7 Dec. 1812, organized as a territory  
 10 Aug. 1821, admitted as 24th state Area 69,415 sq. mi.  
 Population 3,293,335 in 1910 114 counties and St Louis  
 Sobriquets: Bullion state, Iron state

## .81 Northwest counties

.811	Atchison	13 604
5	Holt	14 539
.812	Nodaway	28 833
6	Andrew	15 282
.813	Buchanan	93 020
1	<i>St Joseph</i>	
5	Platte	14 429
.814	Worth	8 007
5	Gentry	16 820
.815	Dekalb	12 531
5	Clinton	15 297
.816	Clay	20 302
.817	Harrison	20 466
.818	Daviess	17 605
5	Caldwell	14 605
.819	Ray	21 451

77 403

## .82 Central north counties

.821	Mercer	12 335
5	Grundy	16 744
.822	Livingston	19 453
5	Carroll	23 098
.823	Putnam	14 308
5	Sullivan	18 598
.824	Linn	25 253
.825	Chariton	23 503
.826	Schuyler	9 062
4	Adair	22 700
.827	Macon	30 868
.828	Randolph	26 182

10 923

1 *Moberly*

5	Howard	15 653
.829	Boone	30 533

## .83 Northeast counties

.831	Scotland	11 869
5	Knox	12 403
.832	Shelby	14 864
5	Monroe	18 304
.833	Audrain	21 687
5	Callaway	24 400
.834	Clark	12 811
5	Lewis	15 514
.835	Marion	30 572
1	<i>Hannibal</i>	
5	Ralls	12 913
.836	Pike	22 556
.837	Lincoln	17 033
.838	Montgomery	15 604
6	Warren	9 123
.839	St Charles	24 695

18 341

Missouri

977.84	Central west counties		
.841	Jackson	283 522	
	<i>Kansas City</i>		248 381
.842	Cass	22 973	
.843	Bates	25 869	
.844	Vernon	28 827	
.845	Lafayette	30 154	
	<sup>5</sup> Johnson	26 297	
.846	Henry	27 242	
	<sup>6</sup> St Clair	16 412	
.847	Saline	29 448	
.848	Pettis	33 913	
	<sup>1</sup> <i>Sedalia</i>		17 822
.849	Benton	14 881	
	<sup>6</sup> Hickory	8 741	
.85	Central counties		
.851	Cooper	20 311	
.852	Moniteau	14 375	
.853	Morgan	12 863	
.854	Camden	11 582	
.855	Cole	21 957	
	<sup>1</sup> <i>Jefferson City</i>		11 850
.856	Miller	16 717	
.857	Pulaski	11 438	
.858	Osage	14 283	
.859	Maries	10 088	
	<sup>4</sup> Phelps	15 796	
.86	Central east counties		
.861	Gasconade	12 847	
.862	Crawford	13 576	
.863	Franklin	29 830	
.864	Washington	13 378	
.865	St Louis	82 417	
.866	<i>St Louis (city)</i>	687 029	
.867	Jefferson	27 878	
.868	St François	35 738	
.869	Ste Genevieve	10 607	
	<sup>4</sup> Perry	14 898	

## Missouri

977.87	Southwest counties		
.871	Barton	16	747
.872	Jasper	89	673
1	Joplin		32 073
2	Webb City		11 817
.873	Newton	27	136
6	McDonald	13	539
.874	Cedar	16	080
5	Dade	15	613
.875	Lawrence	26	583
.876	Barry	23	869
.877	Polk	21	561
.878	Greene	63	831
1	Springfield		35 201
.879	Christian	15	832
4	Stone	11	559
7	Taney	9	134
.88	Central south counties		
.881	Dallas	13	181
5	Laclede	17	363
.882	Webster	17	377
5	Wright	18	315
.883	Douglas	16	664
5	Ozark	11	926
.884	Texas	21	458
.885	Howell	21	065
.886	Dent	13	245
.887	Shannon	11	443
5	Oregon	14	681
.888	Iron	8	563
5	Reynolds	9	592
.889	Carter	5	504
4	Ripley	13	099
.89	Southeast counties		
.891	Madison	11	273
.892	Wayne	15	181
.893	Butler	20	624
.894	Bollinger	14	576
.895	Stoddard	27	807
.896	Cape Girardeau	27	621
.897	Scott	22	372
.898	Mississippi	14	557
5	New Madrid	19	488
.899	Dunklin	30	328
6	Pemiscot	19	559

## 978 Western or Mountain

Including general works on 'the West'

### .1 Kansas

1541 explored by Spanish  
30 May 1854 organized as separate territory, after successive inclusion in Louisiana and Missouri territories  
29 Jan. 1861 admitted as 34th state Area 81,774 sq. mi.  
Population 1,690,949 in 1910 105 counties  
Sobriquet: Garden of the west

### .2 Nebraska

30 May 1854 territory organized out of Missouri territory  
1 Mar. 1867 admitted as 37th state Area 76,808 sq. mi.  
Population 1,192,214 in 1910 92 counties  
Sobriquet: Blackwater state

### .3 South Dakota Including works on Dakota as a whole

2 Nov. 1889 admitted as 40th state (Dakota ter. organized 2 Mar. 1861, divided into North and South Dakota)  
Area 76,868 sq. mi.  
Population 583,888 in 1910 68 counties  
Sobriquet: Coyote state

### .4 North Dakota

2 Nov. 1889 admitted as 39th state (Dakota ter., organized 2 Mar. 1861, divided into North and South Dakota)  
Area 70,183 sq. mi.  
Population 577,056 in 1910 49 counties  
Sobriquet: Flickertail state

.5

### .6 Montana

26 May 1864 territory organized. Name means Mountain land  
8 Nov. 1889 admitted as 41st state Area 146,201 sq. mi.  
Population 376,053 in 1910 28 counties  
Sobriquet: Treasure state

### .7 Wyoming

25 July 1868 Wyoming territory organized  
10 July 1890 admitted as 44th state Area 97,594 sq. mi.  
Population 145,965 in 1910 15 counties  
Sobriquet: Stubtoe state

### .8 Colorado

28 Feb. 1861 Colorado territory organized  
1 Aug. 1876 admitted as 38th state Area 103,658 sq. mi.  
Population 799,024 in 1910 60 counties  
Sobriquet: Centennial state

### .9 New Mexico

2 Feb. 1848 ceded by Mexico  
9 Sep. 1850 territory organized; enlarged 1853 by Gadsden purchase  
6 Jan. 1912 admitted as 47th state Area 122,503 sq. mi.  
Population 327,301 in 1910 26 counties

## 979 Pacific

### .1 Arizona

2 Feb. 1848 ceded by Mexico, and enlarged by Gadsden purchase 1853  
24 Feb. 1863 territory organized  
14 Feb. 1912 admitted as 48th state Area 113,810 sq. mi.  
Population 204,354 in 1910 13 counties

### .2 Utah

2 Feb. 1848 ceded by Mexico  
9 Sep. 1850 territory organized  
4 Jan. 1896 admitted as 45th state Area 82,184 sq. mi.  
Population 373,351 in 1910 27 counties  
Sobriquet: Salt Lake state

### .3 Nevada

2 Mar. 1861 territory organized  
31 Oct. 1864 admitted as 36th state Area 109,821 sq. mi.  
Population 81,875 in 1910 15 counties  
Sobriquet: Silver state

**California**

Admitted 9 Sep. 1850, as 31st state Area 155,652 sq. mi.  
 Population 2,377,549 in 1910 58 counties

**Northern or Superior California**

Use 979.41 as a general number, including .41-.43  
 Sobriquet: The Golden state

	Coast range counties, north	Population in 1910
.41		
.411	Del Norte	2 417
.412	Humboldt	33 857
.414	Trinity	3 301
.415	Mendocino	23 929
.417	Lake	5 526
.418	Sonoma	48 394
.419	Napa	19 800

	Northeast counties	
.42		
.421	Siskiyou	18 801
.423	Modoc	6 191
.424	Shasta	18 920
.426	Lassen	4 802
.427	Tehama	11 401
.429	Plumas	5 259

	North central counties	
.43		
.431	Glenn	7 172
.432	Butte	27 301
.433	Colusa	7 732
.434	Sutter	6 328
.435	Yuba	10 042
.426	Sierra	4 098
.437	Nevada	14 955
.438	Placer	18 237

**Central California**

Use 979.44 as a general number, including .44-.48

	East central counties	
.44		
.441	El Dorado	7 492
.442	Amador	9 086
.443	Alpine	309
.444	Calaveras	9 171
.445	Tuolumne	9 979
.446	Mariposa	3 956
.447	<i>Yosemite</i>	
.448	Mono	2 042
.45		
	Central counties	
.451	Yolo	13 926
.452	Solano	27 559
.453	Sacramento	67 806
.454	<i>Sacramento</i> (city)	44 696
.455	San Joaquin	50 731
.456	<i>Stockton</i>	23 253
.457	Stanislaus	22 522
.458	Merced	15 148



## California

979.46	West central counties	San Francisco group	
.461	San Francisco co. and city	416 912	
.462	Marin	25 144	
.463	Contra Costa	31 674	
.465	Alameda	246 131	
	<i>Alameda (city)</i>		23 383
.466	<i>Oakland</i>		150 174
.467	<i>Berkeley</i>		40 434
.469	San Mateo	26 585	
.47	Coast range counties, south		
.471	Santa Cruz	26 140	
.473	Santa Clara	83 539	
.474	<i>San Jose</i>		28 946
.475	San Benito	8 041	
.476	Monterey	24 146	
.478	San Luis Obispo	19 383	
.48	South central counties		
.481	Madera	8 368	
.482	Fresno	75 657	
.483	<i>Fresno (city)</i>		24 892
.485	Kings	16 230	
.486	Tulare	35 440	
.487	Inyo	6 974	
.488	Kern	37 715	

### Southern California

.49	Southern counties		
.491	Santa Barbara	27 738	
	Ilands: San Miguel, Santa Rosa, Santa Cruz, Santa Barbara		
.492	Ventura	18 347	
	Ilands: Anacapa, San Nicholas		
.493	Los Angeles	504 131	
	Ilands: Santa Catalina, San Clemente		
.494	<i>Los Angeles (city)</i>		319 198
.495	San Bernardino	56 706	
.496	Orange	34 436	
.497	Riverside	34 696	
.498	San Diego	61 665	
	<i>San Diego (city)</i>		39 578
.499	Imperial	13 591	

## .5 Oregon

14 Aug. 1848 territory organized  
 14 Feb. 1859 admitted as 33d state Area 96,607 sq. mi.  
 Population 672,765 in 1910 34 counties  
 Sobriquet: Beaver state

## .6 Idaho

3 Mar. 1863 territory organized. Part of Louisiana purchase. First included in Oregon, later in Washington territory  
 3 July 1890 admitted as 43d state Area 83,354 sq. mi.  
 Population 325,594 in 1910 23 counties

## .7 Washington

2 Mar. 1853 territory organized; earlier, part of Oregon territory  
 11 Nov. 1889 admitted as 42d state Area 66,836 sq. mi.  
 Population 1,141,990 in 1910 38 counties  
 Sobriquet: Evergreen state

## .8 Alaska

30 Mar. 1867 ceded by Russia  
 24 Aug. 1912 organized as territory Area 590,884 sq. mi.  
 Population 64,356 in 1910

## 980 South America

- 981 Brazil
- 982 Argentina Patagonia
- 983 Chile
- 984 Bolivia
- 985 Peru
- 986 U. S. of Colombia New Granada Ecuador
- 987 Venezuela
- 988 Guiana
- 989 Paraguay Uruguay

## 990 Oceanica Polar regions

- 991 Malaysia
  - .1 Borneo .2 Celebes .3 Moluccas or Spice islands .4 Phillipine islands
- 992 Sunda
  - .1 Sumatra .2 Java
- 993 Australasia
  - .1 New Zealand .2 New Caledonia .3 Loyalty islands .4 New Hebrides .5 Solomon islands .6 New Britain, New Ireland .7. Admiralty islands
- 994 Australia
  - .1 Western Australia .2 South Australia .3 Queensland .4 New South Wales .5 Victoria .6 Tasmania
- 995 New Guinea
- 996 Polynesia
  - .1 Fiji, Friendly and Navigator islands .2 Society, Austral and Cook's islands .3 Marquesas islands and Low Archipelago .4 Minor Polynesian islands .5 Micronesia .6 Caroline and Pelew islands .7 Ladrone islands .8 Marshall and Gilbert islands .9 Hawaii
- 997 Isolated islands
- 998 Arctic regions
- 999 Antarctic regions

# RELATIV SUBJECT INDEX

## INDEX ABBREVIATIONS

**Cutter forename abbreviations** Most common forenames of men are denoted by initial and colon; of women by initial and double period.

A.. Anna	G: George	L.. Louisa	S: Samuel
A: Augustus	G.. Grace	M: Mark	S.. Sarah
B.. Beatrice	H.. Helen	M.. Mary	T.. Theresa
B: Benjamin	H: Henry	N.. Nancy	T: Thomas
C: Charles	I: Isaac	N: Nicholas	U: Ulrich
C.. Charlotte	I.. Isabella	O.. Olivia	U.. Ursula
D: David	J.. Jane	O: Otto	V: Victor
D.. Delia	J: John	P.. Pauline	V.. Victoria
E: Edward	K: Karl	P: Peter	W.. Wilhelmina
E.. Elizabeth	K.. Kate	R.. Rebecca	W: William
F.. Fanny	L: Lewis	R: Richard	Z.. Zenobia
F: Frederick			

**Other abbreviations** exclusiv of common geografic abbreviations and others selfexplanatory; e. g. those made by omitting final -ment, -ogy, -rafy, -tion, -ture, obscure syllables, etc.

adj.	adjutant	elec.	electric -ity	nat.	natural, nature
anal.	analysis	eng.	engineering	nonchr.	nonchristian
anat.	anatomy	eth.	ethical, ethics	ord.	order, orders
anc.	ancient	exped.	expedition	ordn.	ordnance
antiq.	antiquities	fest.	festival	org.	organ -ic
arch.	archeology	fic. <i>or</i>	fiction	orig.	origin -al
	architecture	fict.		phil.	philosofer -y
ass'n	association	gard.	gardening	philol.	philology
astr.	astronomy	gen.	general	phot.	photografic -y
bibliog.	bibliografic	geod.	geodesy	phys.	physical
biog.	biografy	geog.	geografic		physiologic -y
bdg	building	geol.	geology	poet.	poetry
bus.	business	geom.	geometry	pol. <i>or</i>	political <i>or</i>
ch.	church	gov. <i>or</i>	government	polit.	politics
chem.	chemic	gov't		prac.	practical
	chemistry	histol.	histology	pres.	presidency
chr.	christian	hist.	historic -y		president
civ.	civil	hum.	humor	prob.	probabilities
co.	county	hyg.	hygiene	prot.	protection
cont.	contagious	instr.	instrument	psych.	psychologic -y
cost.	costume	lang.	language	pub.	public
crim.	criminal	lib.	library -ian	reg.	region
Dan.	Danish	lig.	ligament	relig.	religion, -ous
dec.	decoration	lit.	literature	rit.	ritual
descr.	description	loc.	local -ity	sat.	satire
	descriptiv	mach.	machine -ry	sci.	science, -tific
diff.	different	manuf.	manufactures	serm.	sermons
dis.	diseases	mech.	mechanic	soc.	social, society
discov.	discovery	ment.	mental	stat.	statutes
doc.	doctrin -al	meth.	methods	subj.	subject
dom.	domestic	mfg	manufacturing	tech.	technology
dram.	drama	mil.	military	theol.	theologic -y
dwel.	dwelling	min.	mineral	theor.	theroretic
eccles.	ecclesiastic		mining	therap.	therapeutics
	ecclesiology	misc.	miscellany	wks	works
econ.	economic -y	mon.	monastic		

## HOW TO USE THIS INDEX

Find the subject desired in its alphabetical place in the index. The number after it is its class number and refers to the place where the topic will be found, in numerical order of class numbers, on the shelves or in the subject catalogs. All class numbers are decimals; i. e., 571.34, Bronze remains, comes before 571.4, Iron age, and both of them before 572, Ethnology. Printed labels on the shelves or drawer fronts guide readily to the class number sought.

Under this class number will be found the resources of the library on the subject desired. Other subjects near the one sought may often be consulted with profit; e. g., Communism is the topic wanted and the index refers to 335.4, but 335, Socialism, and even the inclusive division 33c, Political economy, also contain much on this subject. The reverse is equally true; the full material on Socialism can only be had by looking at its divisions 335.3, Fourierism, 335.4, Communism, etc. The topics which are thus subdivided are plainly marked in the index by heavy faced type.

## THIS INDEX CONTAINS

in a single alphabet all the subjects named in the Complete Tables of the Decimal Classification together with their synonyms and such other useful topics as could be found in a selection of the largest dictionary and subject catalogs.

Where nothing is found under any number it shows that the library does not yet possess any book on that topic.

## IT DOES NOT INCLUDE

all names of places, minerals, plants, etc., but gives only those used in the full tables and a farther selection of the most common and useful. It is not a biographical dictionary and gives **no names of persons** as biographical headings, but only such as appear in the tables in connection with some subject like Philosophy, Literature, or History.

To avoid swelling the index by frequent repetitions of long lists of sub-divisions under every country, language, etc., five general tables have been prepared; viz. 1, Geographical divisions; 2, Form divisions; 3, Languages; 4, Philological divisions; 5, Literatures. These are placed at the end and referred to from all such topics in the index. Explanations precede each index table.

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Dogmas	religious hist.	273
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Dolerite	lithology	552.35
Dolichocephaly	craniology	573.7
Dolls	dom. economy	649.55
Dolmens	prehist. arch.	571.94
Dolomite	lithology	552.55
Domain, eminent	law	347.2
	state finance	336.1
Dome, boiler	steam eng.	621.18452
	locomotiv boiler	621.1336
Domes	architec. design	729.34
	architecture	721.46
	astron. observ.	522.12
	roofs	721.57
Domesday book	Eng. fin.	336.42
Domestic		
	animals	636
	infect. diseases of	614.91
	architecture	728
	ashes san. eng.	628.44
	duties ethics	173
	economy	640
	education	376.3
	garbage sanitary eng.	628.44
	mammals	599.7
	medicin	616.02
	relations law	347.6
	polit. science	323
	servis	647
	trade	381
	use and waste of water	628.17
	worship family prayer	249
Domestication, effect on		
	animals and plants	575.2
Domicil		
	legal capacity law	347.1
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Dominicans	mon. orders	271.2
Dominion of Canada	history	971.05
Dominoes	games	795
Dompelaers	baptist sect	286
Domschulen	cathed. sch.	377.4
Donatists	sects	281.4
<sup>1</sup> Donegal, Ireland	history	941.63
Donelson, Ft	U.S.civ.war	973.752
	capture " " "	973.7322
<sup>1</sup> Dongola, Egypt	history	962.5
Doni, A. F.	Ital. fiction	853.42
Donkeys	dom. animals	636.1
Donne, J.	Eng. satire	827.35
Door		
	<sup>1</sup> co. Wis. history	977.563
	furnishings dom. econ.	645.3
	keepers legis. employees	328.3625
	mats lib. econ.	022.965
	openers dom. "	643.6
Doors arch. construction		721.8
	design	729.38
	furnace steam eng.	621.18355
<sup>1</sup> Dorchester co. Md.	hist.	975.227
<sup>1</sup> Dordogne, France	"	944.72
Dorian migration	Gk "	938.01
Doric order	architecture	729.32
Doris	ancient history	938.3
Dormers	architec. constr.	721.55
	design	729.35
Dormitories	architecture	727.2
	student life	371.87
Dorr's rebellion	U. S. hist.	973.58

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Dorsal			Drainage		
cord	anat.	611.8213	house		628.6
interosseous artery	"	611.13794	land		627.5
<b>muscles</b>	"	<b>611.731</b>	natural mining eng.		622.52
thorax	"	611.946	of cities		628.2
Dorsalis pedis	"	611.13794	<b>mines</b>		<b>622.5</b>
<sup>1</sup> Dorchester co. Que.	history	971.472	sewage farms		628.367
<sup>1</sup> Dorset, England	"	942.33	public helth		614.77
Dort confession		238.42	road engineering		625.74
synod of		284.2	shipbiling		623.85
Dosology materia med.		615.14	Drains, steam pipe		621.1855
Douay Bible Eng. version		220.52	Drake, Francis		
Double			discov. of Amer.		973.17
bass stringd instrum.		787.4	<sup>5</sup> Drama		
bassoon wind	"	788.8	English literature		822
curvature, geometry		513.58	French	"	842
mod.anal.geom.		516.58	German	"	832
of spine		616.73	Greek	"	882
curvd lines descr. geom.		515.13	Italian	"	852
surfaces "	"	515.15	Latin	"	872
flowers floriculture		716.2	miracle plays	Eng. lit.	822.1
<b>morphology</b>		<b>581.4</b>	gen. hist.		809.2
fluid cells elec. eng.		621.3534	religion		244
refraction optics		535.5	moral influ. of ethics		175.2
standard coins money		332.42	sacred		244
stars astronomy		523.84	<b>Spanish literature</b>		<b>862</b>
<sup>1</sup> Doubs, France	history	944.46	Dramas	Amer.civ. war	973.792
Doubt	metaphysics	121	revolution		973.392
Douche baths	hygiene	613.44	U.S.war 1812		973.5292
Douglas, G.	Eng. poetry	821.24	Dramatic		
<sup>1</sup> Douglas co. Ill.	history	977.368	amusements		792
<sup>1</sup> Mo.	"	977.883	art theater		792
<sup>1</sup> Wis.	"	977.511	biografy actors		927.92
pouch of anat.		611.6674	<sup>5</sup> Eng. authors		928.22
Dovizi, Bernardo	Ital.dram.	852.32	composition		808.2
Dower	law	347.6	criticism		792
<sup>1</sup> Down, Ireland	history	941.65	history		792
Doyère pipets	prac. chem.	542.73	<b>music</b>		<b>782</b>
Drachmann, Holger	Dan.fic.	839.8366	orchestral music		785.2
Draco's code	Grecian hist.	938.01	<sup>5</sup> Dramatists' lives, English		928.22
Draft, furnace	steam eng.	621.1838	Draperies	dom. econ.	645.3
Drafting			Drastics	cathartics	615.7325
bill legislation		328.373	Draughts	games	794
drawing		744	Dravidian architecture		722.4
military recruitment		355.2	language		494
room mfg plant		621.71	literature		894
Drafts	games	794	Drawbridges	engineering	624.8
U. S. civil war		973.7414	Drawing		740
Dragon flies	insects	595.73	architectural		744
Dragonade	persecutions	272.4	books		740
Dragons	folklore	398.4	elementary educ.		372.52
Drainage			engineering		744
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engineering		627.5	mechanical		744

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Drawing mills mfg. plant	621.77	Drinking, social ethics	178.3
room amusem'ts	793	usages customs	394.1
furnishings	645.62	Drinks	
topografic	526.98	cold hygiene	613.36
Drawings		domestic economy	641.87
architectural	729	hot hygiene	613.37
classification & storage	025.177	intoxicating ethics	178.1
detail bilding	692.2	hygiene	613.81
engineering	620.04	mixing of manufactures	663.8
general bilding	692.1	Drives landsc. gardening	713
linear	741	Driving	798
mechan. engineering	621.004	<sup>1</sup> Drôme, France history	944.98
prehistoric archeology	571.71	Droop system suffrage	324.224
Drawnwork fancywork	746	Dropsy diseases	616
Drayton, M. Eng. poetry	821.34	Droseraceæ botany	583.393
Dream books folklore	398.7	Droughts meteorology	551.57
Dreams	135	Drowning protec. of life	614.81
physiologic psych.	612.82176	Drugs	615.1
Dred Scott		adulteration of	614.35
case causes U.S.civ.war	973.7115	analytic chemistry	543.4
decision slavery	326.973	economic botany	581.63
U. S. hist.	973.68	intoxicating ethics	178.8
Dredges, steam steam eng.	621.154	hygiene	613.8
Dredging engineering	627.7	Druids	299.16
foundations	721.176	Drum musical instru.	789.1
machinery	627.7	boiler steam eng.	621.1845
scientific voy.	508.3	Drumhed of ear anat.	611.855
<sup>1</sup> Dresden history	943.21	Drumlins geology	551.33
travels	914.321	Drummond, W: Eng. poet.	821.36
Dress costume	391	<sup>1</sup> Drummond co. Que. history	971.456
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" magazines	646.05	Drupaceous fruits	634.2
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Dresses domestic econ.	646.43	U. S. civ. war	973.7365
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ore mining eng.	622.7	docks engineering	627.3
works " "	622.79	shipbilding	623.83
Dressmaking	646.43	goods trade production	338.4
Drewry's Bluff, Va.		method qualita. anal.	544.2
U. S. civ. war	973.7365	quantita. "	545.4
Driers laundry appli.	648.3	point engraving	767
Drift, glacial geology	551.33	rot bilding	691.1
remains prehis. arch.	571.11	Dryden, J: Eng. poetry	821.48
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	Parseeism	295	Dunlap, W:	Am. drama	812.22
Duality	mod. geometry	513.51	Dunmore's, Lord,	war	
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<sup>1</sup> Dublin, Ire.	history	941.83	<sup>1</sup> Dunn co. Wis.	history	977.543
	travel	914.183	Duns Scotus	mediev. phil.	189.4
	university	378.415	Duodecimals	arithmetic	511.1
<sup>1</sup> Dubois co. Ind	history	977.237	Duodenum	anatomy	611.342
<sup>1</sup> Dubuque city Ia.	history	977.7391		diseases of	616.34
<sup>1</sup>	co. " "	977.739	<sup>1</sup> Dupage co. Ill.	history	977.324
Ducis, J. F.	Fr. drama	842.61	Duplex telegraf	commun.	654.2
Duck roofing	bilding	695.8		elec. eng.	621.38232
	shooting	799	<b>Duplicate dep't</b>	<b>lib. econ.</b>	<b>025.26</b>
Duck-bild platypus	zool.	599.1	Duplicates		
Ducks	poultry	636.5		lib. accession routine	025.261
	zoology	598.4		libraries and schools	021.33
Ductility	molecular phys.	539.52		sale of lib. econ.	025.265
Ducts, air	ventilation	697.9	Duplicating		
	kidney anatomy	611.61		machines offis equip.	652
	diseases	616.61		notices, etc. lib. adm.	025.129
	see also qualifying word		Duplication, apparent		
Dudevant, A.L.A.D.	Fr. fic	843.82		deformities	617.34
Dueling	ancient law	340.3	Duployé	shorthand	653.38
	criminal "	343	Dupont, Pierre	French poet.	841.82
	customs	394.8	Dura mater, cerebral	anat.	611.8195
	ethics	179.7		sinuses of "	611.14511
	student life	371.82		spinal "	611.8295
Duets	vocal music	784.82	<sup>1</sup> Durango, Mexico	hist.	972.1
Du Fail, Noël	Fr. fiction	843.34	D'Urfey, T:	Eng. humor	827.44
<sup>1</sup> Dufferin co. Ont.	history	971.341	<sup>1</sup> Durham, England	hist.	942.81
<sup>1</sup> Dufresny, C. R. Fr.	dram.	842.47	<sup>1</sup>	co. Ont. "	971.356
Dugouts	boatbilding	623.8212	Dust		
<sup>1</sup> Dukes co. Mass.	history	974.49		air pollution	614.71
Dulcimer	music	787.9		cosmic descrip. astron.	523.16
Dum				inhalation of hygiene	613.63
	asylums	362.4		prevention of, in factories	628.511
	bells gymnastics	613.71	Dusting	dom. econ.	648.52
	education of	371.912	Dutch		
	waiters dom. econ.	643.6	<sup>1</sup> East Indies	history	991
	engin'g	621.87774	<sup>1</sup> Guiana	"	988
Dumas, A. fils	Fr. dram.	842.84		travels	918.8
	A.D. père " "	842.77	<sup>4</sup> language		439.3
	fic.	843.76	<sup>5</sup> literature		839.3
Dumb, <i>see</i> Dum				painting	759.9
<sup>1</sup> Dumbarton, Scotland	hist.	941.37		reformd church	284.1
Dumdum bullets		623.45535			in Amer. 285.7
<sup>1</sup> Dumfries, Scot.	hist.	941.48	<sup>1</sup> republic	history	949.2
Dummy titles	lib. econ.	020.88	<sup>1</sup> Dutchess co. N. Y.	hist.	974.733
Dumping grates	st. eng.	621.18354	Duties *		
Dunbar, W:	Eng. poetry	821.23		and customs tariff	337
<sup>1</sup> Dunbarton, Scotland		941.37		moral ethics	170
<sup>1</sup> Dundas co. Ont.	history	971.375		of children	" 173.6
Dunes	geology	551.33		citizens	" 172.1
Dunkers	baptists	286		college men	378.069

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library staff	023.7		care of hygiene	613.49
trustees	023.35		def and dum asylums	362.4
parents ethics	173.5		arch.	725.54
public officers	172.2		diseases surgery	617.8
servants	173.8		hospitals	362.1
dom. econ.	647.7		architecture	725.51
teachers education	371.101		muscles anatomy	611.7324
public sermons	252.6		physics	534.7
remitted library aid	021.861		physiology	612.85
social ethics	177		psychology	152.2
stamp polit. econ.	336.27		rings jewelry	391.7
Duty religion	233.4		stones comp. anat.	591.48
free importation	337.8		human "	611.8526
Du Vair, Guillaume Fr. lit.	844.41		physiology	612.85876
Dwarfs biology	573.8		Early	
Dwellings			Christian architecture	723.1
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Dyaks history	991.1		printed books	093
Dyeing chem. tech.	667.2		rising hygiene	613.79
Dyes, anilin " "	667.2		Earth	
Dykes engineering	627.4		astronomy	525
geology	551		attraction of moon	523.33
Dynamic electricity	537.5		burial of ded customs	393.1
engineering	621		pub. helth	614.611
geology	551		closet system sanitation	628.43
Dynamics, celestial	521.1		figure of	526.1
chemic	541.39		houses prehist. archeol.	571.82
electro	537.6		internal heat of geology	551.12
physics	531.3		movements geology	551.24
Dynamite chem. tech.	662.2		physical geology	551
storage prot. of life	614.833		rotation of astronomy	525.35
Dynamolectric machinery	621.313		structure of phys. geol.	551.1
Dynamogenesis physiology	612.8011		surface features	551.4
Dynamometer physics	531.21		irregularities	526.64
physiology	612.744211		Earthenware chem. tech.	666.6
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Dynamos			Earths, rare inorg. chem.	546.6
electric engineering	621.313		Earthwork min. engin'g	622.21
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Dynamotors elec. eng.	621.31326		prehist. archeol.	571.9
Dysentery diseases	616.935		Earthworms zoology	595.1
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Dyspepsia dietetic diseases	616.39		Easements law	347.2
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<sup>1</sup> Indian archipelago	hist.	991			
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<sup>1</sup> Indies	history	954			
<sup>1</sup> Dutch	"	991			
<sup>1</sup> Liverpool, O.	"	977.1631			
<sup>1</sup> New Jersey	"	974.91			
<sup>1</sup> Prussia	"	943.11			
	travels	914.311			
	River bridge engin'g	624.5			
<sup>1</sup> Russia	history	947.8			
	travels	914.789			
<sup>1</sup> St Louis, Ill.	history	977.38			
<sup>1</sup> Turkestan	"	951.6			
	travels	915.16			
Easter	Anglican calendar	264.031			
	chronology	529.6			
	music	783.28			
	school observ.	371.365			
Eastern					
church		281.9			
churches		281.5			
<sup>1</sup> empire		949.5			
iland travel		919.7			
Pacific ocean	phys.geog.	551.466			
<sup>1</sup> Panhandle, W. Va.	hist.	975.49			
question	Turkish history	949.6			
<sup>1</sup> states	U. S.	974			
Eating	customs	394.1			
	hygiene	613.2			
	plesures of	641.01			
<sup>1</sup> Eaton co. Mich.	history	977.423			
<sup>1</sup> Eau Claire city, Wis.	"	977.546			
<sup>1</sup> co.	"	977.545			
Ebenaceæ	botany	583.685			
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	evolution	575.3			
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Economic					
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Economics					
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<b>Ectodermic organs</b> "	<b>611.0135</b>	<b>Educational</b>	
Ectopic gestation obstetrics	618.31	<b>buildings architecture</b>	<b>727</b>
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<b>Ectozoa animal parasites</b>	<b>616.968</b>	psychology	370.15
<sup>1</sup> Ecuador history	986	<b>reports, public</b>	<b>379</b>
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<b>Ecumenic</b>		<b>Educator, library as</b>	<b>021.2</b>
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Eddy currents engin'g	621.311	4 " "	942.044
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Edema physiology	612.381	6 " "	942.053
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<sup>1</sup> Edgar co. Ill. history	977.369	<sup>1</sup> Edwards co. Ill. history	977.3791
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<b>roots</b> "	<b>635.1</b>	and college training	378.01
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	ownership	333.7	Foscolo, U.	Ital. poetry	851.66
	state control	351.823	Fossil resins	econ. geol.	553.29
<sup>1</sup> Forfar, Scotland	history	941.31	Fossils		560
Forge bellows		533.87	"    "	geografic distribution	560.9
"    "    "    "	shop eng. works	621.73	"    "	man	569.9
Forgemen's occupation	hyg.	613.64	"    "	antiqui. of man	573.3
Forgery	academic degrees	378.26	Foucault's	pendulum	525.36
	law	343	Foulahs	ethnology	572.9662
	polit. economy	332.9		Sudan, trav.	916.62
Forging	blacksmithing	682	Foundation		
	machinery, hydraul.	621.266	bed	bridge engineering	624.151
Forgiveness of sin	theology	234	"    "	roadmaking	625.73
Forks, tuning	acoustics	534.3	Foundations		
Form			architec.	construction	721.1
books	law	347.93	boiler	steam eng'ng	621.18457
	influence on respiration	612.2291			

Foundations			
bridge engin'g	624.15		
electric lines	621.319223		
Founders and patriots of			
America, order of	369.125		
<b>Founding of libraries</b>	<b>021.6</b>		
type printing	655.21		
Foundling asylums arch.	725.58		
sociology	362.7		
Foundries architecture	725.43		
engin'g works	621.74		
metal manufac.	671		
<sup>1</sup> Fountain co. Ind. history	977.247		
Fountains landsc. gard.	714		
Fouqué, La Motte Ger.fic.	833.65		
Four-wire electric systems	621.3191324		
Fourierism communism	335.3		
Fourth dimension geom.	513.8		
nerv anatomy	611.8314		
physiol.	612.8194		
of July schools	371.365		
U. S. hist.	973.361		
Fowling sport	799		
Fowls domestic animals	636.5		
Fox, C. J. Eng. oratory	825.63		
Foxes zoology	599.7		
Foxhunting amusements	799		
Fractional currency, money	332.41		
Fractions algebra	512.4		
arithmetic	511.4		
Fractures surgery	617.15		
Frames artistic furniture	749		
Framing carpentry	694.2		
shipbiling	623.84		
<b>France</b>			
<b>administration</b>	<b>354.44</b>		
<b>antiquities</b>	<b>913.44</b>		
<b>architecture</b>	<b>720.944</b>		
<b>botany</b>	<b>581.944</b>		
<b>colleges</b>	<b>378.44</b>		
<b>constitutional law</b>	<b>342.44</b>		
<b>education</b>	<b>370.944</b>		
<b>finance</b>	<b>336.44</b>		
<b>geology</b>	<b>554.4</b>		
<b>heraldry</b>	<b>929.674</b>		
<sup>1</sup> <b>history</b>	<b>944</b>		
<b>language</b>	<b>440</b>		
<b>laws</b>	<b>349.44</b>		
<b>literature</b>	<b>840</b>		
<b>local government</b>	<b>352.044</b>		
<b>maps</b>	<b>912.44</b>		
<b>peerages</b>	<b>929.741</b>		
<b>religious history</b>	<b>274.4</b>		
<b>schools, public</b>	<b>379.44</b>		
<b>France</b>			
<b>statistics</b>	<b>314.4</b>		
<b>titles of honor</b>	<b>929.74</b>		
<b>travel</b>	<b>914.4</b>		
<b>treaties</b>	<b>341.244</b>		
<b>troubles with U. S.</b>			
Fr. hist.	944.046		
U. S. "	973.45		
<b>zoology</b>	<b>591.944</b>		
other topics see table 1			
<sup>1</sup> Franche Comté, Fr. hist.	944.45		
<b>Franchise, elec. pol. sci.</b>	<b>324</b>		
Francis 1 Fr. history	944.028		
2 " "	944.029		
Francis 1 Ger. history	943.055		
2 " "	943.06		
Franciscan monks	271.3		
sisterhood	271.973		
Franco-German war			
French hist.	944.08		
German "	943.082		
Franconia			
house of German hist.	943.023		
<sup>1</sup> Lower " "	943.33		
trav.	914.333		
<sup>1</sup> Middle " hist.	943.32		
trav.	914.332		
<sup>1</sup> Upper " hist.	943.31		
trav.	914.331		
Frankeniaceæ botany	583.151		
<sup>1</sup> Frankfort history	943.58		
travels	914.358		
Franking privilege			
legislativ prerogativs	328.237		
library aid	021.862		
post offis	383		
Frankish emperors It. hist.	945.02		
Franklin, Tenn. battle			
U.S.civ.war	973.7379		
<sup>1</sup> co. Ill. history	977.394		
travels	917.7394		
<sup>1</sup> Ind. history	977.215		
<sup>1</sup> Ia. " "	977.728		
<sup>1</sup> Me. " "	974.17		
<sup>1</sup> Mass. " "	974.42		
<sup>1</sup> Mo. " "	977.863		
<sup>1</sup> N. Y. " "	974.755		
<sup>1</sup> O. " "	977.156		
<sup>1</sup> Pa. " "	974.844		
<sup>1</sup> Vt. " "	974.31		
<sup>1</sup> ter. Can. " "	971.29		
Franks " "	943.01		
Franzén, F.M. Swed. poetry	839.7158		

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Fraud	electoral suffrage	324.27	Freedom		
	law	347.5	and emancipation		
Frauds			slavery	326.8	
art	history	709	U.S. hist.	973.714	
fertilizers		631.818	metaphysics	123	
literary	history	809	of labor	strikes	331.891
Fraudulent			theory	331.011	
conveyances	law	347.7	man	doct. theol.	323.7
counting	elections	324.275	press	editorship	323.445
elections	U. S.	324.73	journalism		070.13
voting	suffrage	324.272	public order		351.751
Fraunhofer's lines	spectro.	535.84	speech		323.443
Freckles	dermatology	616.55	teaching		378.121
Frederick	new Ger. empire	943.084	personal	pol. sci.	323.44
1	Ger. history	943.024	political	liberty	323.4
2	" "	943.025	religious	eccles. polity	262.8
3	" "	943.028	salvation		234.9
<sup>1</sup> Frederick city, Md.	hist.	975.288	Freehold land societies		334.1
<sup>1</sup>	co. Md. "	975.287	law		347.2
Fredericksburg, Va.			Freeman's farm	Am. rev.	973.3333
	U. S. civ. war	973.7339	Freemasonry		366.1
Free			<sup>1</sup> Freeport, Ill.	history	977.333
agency	doctrinal theol.	234.9	Freewill baptists		286.2
baptists	sects	286.2	Freezing		
church of Scotland	sects	285.6	artificial	ice machines	621.58
cities	Ger. government	354.4309	food	preservation	641.4
Ital.	history	945.04	mixtures	refrigeration	621.564
coinage of silver		332.41	physics		536.43
hand drawing		741	process	foundations	624.157
importation	lib. aid	021.861	water works		628.15
institutions			Freight		
love	ethics	173.1	cars	railway engin'g	625.24
news and reading rooms		027.9	elevators	lib. bldgs	022.9572
postage	library aid	021.862	mech. eng.		621.87772
public libraries		027.4	ferryboats	shipblding	623.8234
religion		211	houses, R. R.	architect.	725.32
school system	education	379.1	interstate commerce		385
soil party	polit. party	329.6	locomotivs	steam eng.	621.13262
U. S. history		973.61	transportation		656
speech	polit. science	323.443	Freiligrath, F.	Ger. poetry	831.78
thinkers	biograpy	922.9	Fremont in California		
thought	eccles. polity	262.8	U.S. war with Mex.		973.6232
rationalism		211	<sup>1</sup> Fremont co. Ia.	history	977.777
trade and protection		337	French		
use of libraries		024.28	allies	U. S. hist.	973.324
will	metaphysics	123	and Indian war	Can. hist.	971.018
psychology		159	U. S. "		973.26
theology		234.9	church, Gallican		282.44
Freebooters	crim. law	343	<sup>1</sup> Cochin China	history	959.7
Freedmen			travels		915.97
education of		371.974	discovery of America		973.18
in U. S. army	U. S. his.	973.7415	encyclopedists	apologet.	239.6
slavery		326.8	<sup>1</sup> Guiana	history	988
Freedmen's bureau		361	travels		918.8

French			
horn	wind instru.	788.41	
<sup>4</sup> language		440	
<sup>5</sup> literature		840	
old	language	447.01	
opera	dramat. music	782.4	
painting		759.4	
philosofers	biografy	921.4	
philosofy		194	
polish	chem. tech.	667.7	
protestants	persecut. of	272.4	
regime	Can. hist.	971.01	
republic, 1st	history	944.042	
2d	"	944.07	
3d	"	944.08	
<b>revolution</b>		<b>944.04</b>	
Romanesque	architec.	723.44	
roofs	arch. construc.	721.5	
sculpture		735	
spoliations	U. S. hist.	973.45	
wars, early	" "	973.25	
Freneau, Philip	Am. poet.	811.24	
Frequency			
converters	elec. eng.	621.31355	
asynch.	" "	621.31367	
synchronous		621.31353	
meters	elec. "	621.3747	
of hart beats	physiol.	612.1722	
sessions	legislativ bodies	328.353	
<b>respiratory</b>	<b>physiology</b>	<b>612.216</b>	
Fresco painting			
bilding		698.2	
interior decoration		747	
library bildings		022.344	
<b>painting</b>		<b>750</b>	
sacred ornaments		247.5	
school bildings		371.636	
Frese, Jacob	Swed. poetry	839.7137	
Fresh-air mission		361	
Freshets	meteorology	551.57	
Fresnel lens	lighthouses	627.9	
<sup>1</sup> Fresno city, Cal.	hist.	979.483	
" co. "	" "	979.482	
Fretwork		747	
Freytag, G.	Ger. fiction	833.82	
Frezzi, F.	Ital. poetry	851.21	
Friars	monastic orders	271	
Friction			
clutches	mech. eng.	621.825	
gearing	" "	621.858	
mechanical engineering		621.89	
of gears	mech. eng.	621.832	
physics		531.4	
<b>Frictional electricity</b>		<b>537.2</b>	
Friedrich's disease		616.83	
<sup>1</sup> Friendly ilands	history	996.1	
societies		334.7	
Friends, society of	sects	289.6	
Friendship	ethics	177.6	
<sup>1</sup> Friesland	history	949.2	
travels		914.92	
Friezes, carvd	arch. decor.	729.56	
painted	" "	729.46	
Frigid zone	clothing	646.091	
cookery		641.591	
<sup>4</sup> Frisian language		439.2	
<sup>5</sup> literature		839.2	
Fröbel's system	educat.	372.2	
Frobisher, M.	discov. of Am.	973.17	
Frogs	culture	639.3	
zoology		597.8	
Frolic, ship	U.S. war 1812	973.5251	
Fronde	French hist.	944.033	
Frontal bone	anat.	611.7155	
lobes of brain	"	611.81311	
<sup>1</sup> Frontenac co. Ont.	hist.	971.371	
Frontiers	polit. science	320.128	
Fronto, M. C.	Lat. letters	876.3	
Frost action	geology	551.91	
bites	skin disord.	616.58	
blight	agriculture	632	
meteorology		551.52	
Froude's tests	shipbilding	623.83	
Fructification	botany	581.16	
Fructose	nutrition	612.39613	
Frugoni, C. I.	Ital. poetry	851.57	
Fruit culture		634	
drinks	adulterations	614.346	
dom. econ.		641.87	
hygiene		613.36	
markets	dom. econ.	641.4	
trade	economics	338.1	
Fruits			
and seeds	agriculture	634	
organografy		581.76	
as food	dom. econ.	641.13	
hygiene		613.27	
physiology		612.39272	
fresh, inspection of		614.316	
fruit culture		634	
See also distinguishing name			
preservd, chem. tech.		664.8	
preservd, inspection of		614.318	
Frying	cookery	641.77	
Fryxell, A.	Swed. misc.	839.7863	
Fuel			
artificial	chem. tech.	662.8	
chemic technology		662.6	

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Fuel			Funeral		
conveyors steam eng.	621.18378		rites relig. ordin.	265.8	
domestic economy	644.2		sermons	252.9	
metallurgy	669.8		<b>Fungi botany</b>	<b>589.2</b>	
ships shipbuilding	623.826		Funicular engines, hydraulic	621.262	
steam engineering	621.182		railways	625.32	
Fuels			Funis, prolapsus obstetrics	618.58	
intern. combust. engines	621.434		Funnels chem. appar.	542.231	
special cookery with	641.58		decant'g " "	542.66	
steam locomotivs	621.1331		Fur dom. economy	646.16	
Fugitiv			trade	338.1	
slave law U. S. hist.	973.64		Furetière, A. Fr. satire	847.45	
" slavery	326.973		Furlo, military	355.11	
slaves, causes " civ. war	973.7115		Furnaceman dom. econ.	647.25	
Fugitivs from justis extrad.	341.4		Furnaces		
Fugue music	786.82		coal prac. chem.	542.42	
Fulahs ethnology	572.9662		electric " "	542.47	
Sudan, trav.	916.62		gas " "	542.44	
<b>Full development, period of</b>	<b>612.66</b>		house warming	697.3-	
Fuller, Margaret Am. lit.	814.31		metallurgy	669.8	
Fulminating powders	662.4		mining ventilation	622.43	
<sup>1</sup> Fulton co. Ill. history	977.348		<b>steam engineering</b>	<b>621.183</b>	
travels	917.7348		ventilation of sewers	628.236	
<sup>1</sup> Ind. history	977.287		Furnishings, see qualifying word		
<sup>1</sup> N. Y. " "	974.747		Furniture		
<sup>1</sup> O. " "	977.1115		domestic economy	645	
<sup>1</sup> Pa. " "	974.872		ecclesiastic	247	
Fumes, prevention in fact.	628.511		factories architecture	725.44	
Fumigating apparatus			fixt arch. decoration	729.9	
contag. diseases	614.481		library economy	022.9	
Functional			manufacture	684	
diseases of brain and cord	616.84		offis equipment	651	
women	618.17		school	371.631	
equations	517		ship equipment	623.86	
Functions			Furs clothing	646.16	
Bessel's, etc. calculus	517.35		Fuses, see Fuzes		
calculus of	517.5		Fusion-point physics	536.42	
nervous physiology	612.8		thermochem.	541.36	
of generation female	612.62		Future		
male	612.61		events probabilities	519.4	
motor apparatus	612.7		judgment doct. theol.	236.9	
skin physiol.	612.79		life natural "	218	
symmetric algebra	512.84		of libraries	021.03	
trigonometric	514.1		punishment doct. theol.	237.6	
Fund wage polit. econ.	331.212		state " "	237	
Funding system finance	336.31		Fuzes		
Funds			electric stations	621.3178	
invested lib. finance	025.111		explosivs	662.4	
lib. subj. apportionment	025.211		local electric lighting	621.3284	
public	336		military engineering	623.4541	
Funeral			Fylfot ecclesiology	246.5	
directors	393.9		heraldry	929.6	
rites customs	393				



G. A. R. associations	369.151	Gallows criminal law	343.2
Gabbro plutonic rocks	552.34	Galt, John English fiction	823.77
Gabelsberger shorthand	653.33	Galvanic batteries	
Gabionades mil. eng.	623.24	<b>engin'g</b>	<b>621.354</b>
Gables arch. construc.	721.28	manipulation	542.8
design	729.37	physics	537.86
roofs	721.58	<b>Galvanism</b>	<b>537.5</b>
<sup>4</sup> <b>Gadhelic language</b>	<b>491.61</b>	Galvanized iron manuf.	671
Gadolinium chemistry	546.694	Galvanometers	
Gadsden purchase U.S. hist.	973.66	elec. engineering	621.3744
<sup>4</sup> <b>Gaelic language</b>	<b>491.63</b>	electrophysiology	612.01442186
Gaetulia ancient history	939.77	physics	537.86
Gage		Galvanoplasty	
cocks locomotiv boilers	621.1339	electrometallurgy	537.85
glasses steam eng.	621.18472	manufactures	671
Gages, comprest air	621.532	Galvanotropism	
steam power plant	621.1977	electrophysiology	612.014427
Gaging arithmetic	511.8	<sup>1</sup> Galway, Ireland history	941.74
mesures	389	Gambling	
Galactophorus ducts anat.	611.693	administration	351.762
Galactose nutrition	612.39613	ethics	174.6
Galatia ancient history	939.32	of amusements	175.9
Galatians Bible	227.4	law	345
Galena econ. geology	553.44	Game sport	799
metallurgy	669.4	laws hunting*	799
Gales meteorology	551.51	preserves business	639.1
<sup>1</sup> Galiccia, Austria history	943.74	Games	
<sup>1</sup> Spain "	946.1	<b>amusements</b>	<b>790</b>
Galilei, G. Ital. essays	854.52	championship sch. hyg.	371.75
Gall		children's dom. econ.	649.55
bladder anatomy	611.366	customs	394.3
diseases of	616.36	ethics	<b>175</b>
physiology	612.35771	Greek	913.38
ducts, see Bile ducts		kindergarten	372.215
formation secretions	591.145	of chance amusements	795
Gallantry ethics	177.1	ethics	175.5
<sup>1</sup> Gallatin co. Ill. history	977.397	skill amusements	794
Galleries		ethics	175.4
and libraries	021.48	Olympic Greek antiq.	913.38
art	<b>708</b>	Roman	913.37
architecture	727.7	room for lib. bldgs	022.663
library bildings	022.656	school	371.74
library shelving	022.423	<b>table and parlor</b>	<b>793</b>
shooting architecture	725.89	Gaming, public state reg.	351.762
Gallery		<b>Gamopetalæ botany</b>	<b>583.5</b>
study tables lib. bldgs	022.52	Ganglia	
Galley outfit shipbilding	623.86	anatomy	611.89
Galleys criminal law	343.2	cerebral physiology	612.826
shipbilding	623.8212	comparativ "	612.829
Gallia		of hart "	612.1783
Cisalpina ancient hist	937.2	sensory nerves	612.8113
<sup>1</sup> co. O. history	977.189	sympathetic system	612.89
Gallican church	282.44	Gangliated cord anatomy	611.839
Gallium chemistry	546.68	Ganglions, <i>see</i> Ganglia	

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Gangrene	lung diseases	616.245	Gas		
	surgery	617.25	driven electric plants	621.312133	
Ganoidei	fishes	597.4	engins	<b>engineering</b>	<b>621.4</b>
Gaols, see	Prisons			physics	536.82
Garages	lib. bildings	022.687	<b>exchange</b>	<b>respiration</b>	<b>612.22</b>
	private arch.	728.94		in blood	"
	public	" 725.38	fitting	plumbing	696.2
Garbage	sanitation	628.44	fuel	chem. tech.	662.6
Garcia	Catalan poetry	849.9137	generation	prac. chem.	542.72
<sup>1</sup> Gard, France	history	944.83	heating	bilding	697.6
Garden parties	dom. econ.	642.43		prac. chem.	542.44
Gardeners	" "	647.3	illuminating	air pollut.	614.723
Gardening	elem. educ.	372.36		inspect. of	614.835
	flower	716.2	light	dom. econ.	644.313
	kitchen	635		lib.	" 022.752
	<b>landscape</b>	<b>710</b>	liquefaction	prac. chem.	542.79
	market	635	<b>manipulation</b>	" "	<b>542.7</b>
	window	716.4	manufacture		665.7
Gardens			mesuring	prac. chem.	542.76
botanic		580.7	meters	" "	542.76
	architecture	727.5	natural	econ. geology	553.28
public		711		heating	697.6
zoologic		590.7	production	prac. chem.	542.72
	architecture	727.5	rarefaction	prac. chem.	542.77
Gardianship	law	347.6	sewer	air pollution	614.765
Garfield, J. A.	presidency of	973.84		sanitary eng.	628.23
Gargoyles	arch. decor.	729.53	solidification	prac. chem.	542.79
Garibaldi	Italian history	945.09	storage	" "	542.75
Garmets			stoves, kitchen equipm't		643.334
for special purposes		646.47	suffocation by prot. of life		614.82
outdoor	dom. econ.	646.45	turbins	engin'g	621.433
outer house	" "	646.43	washing	prac. chem.	542.74
under	" "	646.42	water	heating	697.6
Garnier, Robert	Fr. dram.	842.37	wells	economic geology	553.28
Garnishee	law	347.7	works	air pollution	614.723
Garnitures			Gascoigne, G:	Eng. satire	827.31
dress	dom. econ.	646.48	<sup>1</sup> Gasconade co. Mo.	history	977.861
table	" "	642.8	<sup>1</sup> Gascony, France	history	944.77
<sup>1</sup> Garrett co. Md.	history	975.297	Gaseous		
Garrick, D:	Eng. drama	822.61	fuels	steam engin'g	621.18224
Garter, order of	heraldry	929.714	<b>state</b>	<b>chemistry</b>	<b>541.33</b>
Garters	hygiene	613.484	Gases		
Garth, S:	English satire	827.48	absorption by skin		612.7915
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Gradual	cathed. music	783.23	stands	architec.	725.82
Graduated			<sup>1</sup> Traverse co. Mich.	"	977.464
system	suffrage	324.224	Grangers	associations	363
Graduates			Granit	ilding stone	553.52
college, and Amer. revol.		973.315		plutonic rock	552.33
U.S.civ.war		973.715	Granits	metamorf. rock	552.41
Graduation	schools	371.291	Grant, U. S.	presidency of	973.82
Græco-Russian church		281.9	<sup>1</sup> Grant co. Ind.	hist.	977.269
Graffiti	inscriptions	471.7	<sup>1</sup> W. Va.	"	975.492
Grafic			<sup>1</sup> Wis.	"	977.577
arts	fine arts	700	Grants		
	prehist. archeol.	571.7	land	finance	336.14
representations of sound		534.6		to schools	379.12
statics		531.2	Grape		
Grafics of light and shadow		515.7	culture		634.8
Graft	bills legislation	328.367	cure	therapeutics	615.854
	business ethics	174.4	shot	ordnance	623.45122
	political "	172.2	sugar	manufacture	664.1
Grafting			Graperies	architecture	728.98
animal	physiology	612.602	Grapes		634.8
fruit	culture	634	Graphic, etc.	see Grafic	
<sup>1</sup> Grafton co. N. H.	hist.	974.23	Graphite	econ. geol.	553.26
Graham	shorthand	653.52	Graphitic anthracite	" "	553.25
Grail, holy legends		398.2	Grasses		
Grain			agriculture		633
agriculture		633	botany		584.9
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elevators	architecture	725.36	Grasshoppers	pests	632
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Grains	agriculture	633	locomotiv boiler		621.1332
Grallatores	zoology	598.3	steam engineering		621.18352
Gram machine	electricity	537.83	Gratings, timber	architec.	721.15
Gramineæ	botany	584.9	<sup>1</sup> Gratiot co. Mich.	hist.	977.449
Grammar			Gratitude	ethics	179.9
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elementary	education	372.6	Gratuities		
schools	public schools	379.17	legislativ employees		328.3626
universal	comp. philol.	415	Grave		
<sup>2</sup> Grammars	Eng. lang.	425	mounds	prehist. arch.	571.92

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Gravel disease	616.62	travels	914.72
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petrography	552.51	travels	914.73
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<b>Gravimetric anal. chem.</b>	<b>545.1</b>	Greco-Russian church	281.9
Gravina, G. V. Ital. essays	854.55	Greece	
Graving		<b>ancient antiquities</b>	<b>913.38</b>
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Gravitation		<b>history</b>	<b>938</b>
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system waterworks	628.12	botany	581.9495
theories	531.51	finance	336.495
Gravity		geology	554.95
center of		<b>history</b>	<b>949.5</b>
<b>experiments geodesy</b>	<b>531.24</b>	<sup>1</sup> maps	912.495
<b>physics</b>	<b>531.5</b>	schools	379.495
railways	625.3	statistics	314.95
specific	532.4	travel	914.95
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Gray		Greed ethics	179.8
friars monastic orders	271.3	Greek	
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<b>church hist.</b>	<b>274.2</b>	<sup>4</sup> <b>language</b>	<b>480</b>
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det of finance	336.42	<sup>5</sup> <b>modern</b>	<b>889</b>
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<sup>1</sup> <b>history</b>	<b>942</b>	<b>revival architecture</b>	<b>724.2</b>
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Great circle sailing	527.5	<sup>1</sup> Lake co. Wis. "	977.559

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<sup>1</sup> Greenbrier co. W. Va.	hist.	975.488	
<sup>1</sup>	val. " "	975.486	
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<sup>1</sup> Greene co. Ill.	history	977.384	
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<sup>1</sup>	Ind. history	977.242	
<sup>1</sup>	Ia. "	977.7466	
<sup>1</sup>	Mo. "	977.878	
<sup>1</sup>	O. "	977.174	
<sup>1</sup>	Pa. "	974.883	
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<sup>1</sup> history		998	
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<sup>1</sup> Haliburton co. Ont.	hist.	971.361			
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<sup>1</sup> Halton co. Ont.	hist.	971.353			
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<sup>1</sup> Hamar, Norway	history	948.4			
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<sup>1</sup> Hamburg, Ger.	history	943.51			
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<sup>1</sup> Hampden co. Mass.	hist.	974.42			
<sup>1</sup> Hampshire co.	"	" 974.42			
<sup>1</sup>	W. Va.	" 975.495			
<sup>1</sup> Hancock co.	Ill.	" 977.343			
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<sup>1</sup>	O.	" 977.119			
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<sup>1</sup> Germany	history	943.53			
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<sup>1</sup> Huron, Mich.	history	977.441	calculus of	anal. geom.	516.8
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<sup>1</sup> Portage co. O.	history	977.137	<sup>3</sup> English etymology		422.7
<sup>1</sup> Wis.	"	977.553	<sup>3</sup> syntax		425.7

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Postludes organ music	786.85		manufacture	662.3
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<sup>1</sup> Potenza, Italy history	945.77		Ger. "	354.4302
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<sup>1</sup> Potter co. Pa. history	974.855		Practis of medicin	616
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<b>barometric</b>	"	<b>612.27</b>	
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<b>blood</b>	<b>physiology</b>	<b>612.14</b>	
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<sup>1</sup> Preston co. W. Va.	hist.	975.482	
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<sup>1</sup> Price co. Wis.	history	977.524	
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<b>Primulaceæ</b>	botany	583.672	
<b>Primulales</b>	"	<b>583.67</b>	
<b>Prince</b>			
<sup>1</sup> co. P. E. I.	history	971.71	
<sup>1</sup> Edward co. Ont.	"	971.3587	
<sup>1</sup> Is. Can.	"	971.7	
<sup>1</sup> George co. Md.	"	975.251	
<b>Princes</b>	education	371.961	
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Pines, Va. battle		973.7327	Shade and light	arch.design 729.14
sages		398.2	Shades	
sleepers		398.2	and shadows.	descr.geom.515.7
weeks war	German hist.	943.081	window furnishings	645.3
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years war	Canadian hist.	971.018	Shadows	perspectiv 515.63
	German	" 943.056	Shaft sinking	mining 622.25
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Seventh			Shaftsbury, earl of	Eng. lit. 824.51
day adventists	sects	289.3	Shakers	biografy 922.88
baptists	"	286.3	sects	289.8
Sabbath		263.2	Shaking grates	engin'g 621.18354
nerv	<b>anatomy</b>	<b>611.8317</b>	Shakspere	Eng. drama 822.33
	<b>physiology</b>	<b>612.8197</b>	Shale	lithology 552.52
<sup>1</sup> Seville	history	946.8	<sup>1</sup> Shanghai	history 951.1
	travels	914.68	travels	915.11
<b>Sewage, disposal of</b>		<b>628.3</b>	<sup>1</sup> Shannon co. Mo.	history 977.887
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<b>engineering</b>		<b>628.2</b>	Sharks	fishes 597.3
<b>systems</b>		<b>628.21</b>	fossils	567.3
ewers			Sharpsburg, Md. battle	973.7336
and outlets	air pollut.	614.765	<sup>1</sup> Shasta co. Cal.	hist. 979.424
<b>disinfection</b>	<b>pub. helth</b>	<b>614.48</b>	Shaving	customs 391.5
Sewing			toilet	646.5
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plain dom. economy		646.21	Shay's rebellion	Mass. hist. 974.4
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Sex			<b>strength of materials</b>	<b>620.11245</b>
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<b>in education</b>		<b>376</b>	Shears	machine tools 621.932
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	zoology	591.46	<sup>1</sup> Shelburne co. N. S.	" 971.625

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<sup>1</sup> Shelby co. Ill. history	977.379 <sup>8</sup>	Shifts of work pol. econ.	331.811
<sup>1</sup> Ind. "	977.259	Shillaber, B. P. Am. humor	817.34
<sup>1</sup> Ia. "	977.748	Shiloh, Tenn. battle	973.73 <sup>26</sup>
<sup>1</sup> Mo. "	977.832	Shingle roofs bilding	695.1
<sup>1</sup> O. "	977.145	Shingles skin diseases	616.52
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<sup>1</sup> Shepherdstown, W. Va. hist.	975.499	result of injury	617.21
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<sup>1</sup> Sherbrooke city, Que. hist.	971.466	Shoes costume	391.4
<sup>1</sup> co. " "	971.466	elec. traction	621.3347
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<sup>1</sup> Shetland ilands history	941.11	<b>engineering works</b>	<b>621.7</b>
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<sup>1</sup> Silesia, Austria history	943.73		<sup>1</sup> Sinaloa, Mexico history	972.3	
<sup>1</sup> Prussia "	943.14		<sup>1</sup> Sind, India "	954.7	
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# INDEX TABLES.

## Table 1.—Geographical Divisions.

The following subjects may all be divided geographically by adding the geographical numbers: i. e., 4, Europe; 5, Asia; 6, Africa; 7, North America; 8, South America; 9, Oceanica. These can be farther subdivided as minutely as wished, like the history, 940-999, which see for full table; e. g.: 42, England; 73, United States; 944, New South Wales; 7471, New York City, etc.

The geographical numbers are formed by omitting initial 9 from the historical numbers given in tables 930-999, and these figures are simply affixed to the number given in the table below; e. g.: Atlases are numbered in the table below 912; in the historical tables France is numbered 944; omitting initial 9 and affixing the remaining figures, 44, to 912 gives 912.44, Atlases of France; New South Wales is 994.4; omit initial 9 and affix the 944 to 912 and the result is 912.944, Atlases of New South Wales. In the table below, Mints are 332.49; in the historical tables England is 942; adding these together (omitting the 9) gives 332.4942, Mints in England. Colleges are 378; N. Y. State, 974.7; add these together (omitting the 9) and the result is 378.747, Colleges in N. Y. State.

A number of unimportant topics, e. g. minor religious sects, which may be divided geographically, are omitted from this table.

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923.5	"    biography.	361.9	Charitable associations.
923.5	Admirals' lives.	283.	Church, Episcopal.
283.	American P. E. church.	922.3	"    "    biography.
922.3	"    "    "    biography.	27	"    history.
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283.	Anglican church.	027.4	City libraries, public.
922.3	"    "    biography.	923.5	Civil service biography.
591.9	Animals, geographical distribution.	027.2	Club libraries.
328.	Annals, legislative.	367.9	Clubs, social.
913.	Antiquities, archæology.	332.49	Coinage, history of.
922.3	Archbishops' lives, Anglican.	027.7	College libraries.
922.2	"    "    Roman catholic.	378.	Colleges.
720.9	Architecture, history of.	325.	Colonies.
923.5	Army biography.	923.8	Commerce, biography of.
709.	Art, history of.	285.8	Congregational church.
362.9	Asylums.	922.5	"    "    biography.
027.2	Atheneum libraries.	342.	Constitutional law.
912.	Atlases.	922.4	Continental Protestants' lives.
923.3	Bankers' lives.	655.6	Copyright.
286.1	Baptist, Calvinistic.	343.	Criminal law.
286.2	"    Free will.	923.4	Criminals' lives.
286.3	"    Seventh day.	614.12	Deaths and death-rates.
922.6	"    lives.	91	Description, geographical.
016.9	Bibliography of history.	91	Directories.
015.	"    special countries.	591.9	Distribution of animals, geog.
920.0	Biography of countries, collective ;	549.9	"    "    minerals    "
	also religious biography 922.2 to	581.9	"    "    plants    "
	922.8, and biography of sociology	572.9	"    "    races    "
	923.1 to 923.8.	284.1	Dutch reformed church (except
922.3	Bishops' lives, Anglican and P. E.		America).
922.2	"    "    Roman catholic.	285.7	Dutch reformed church (in Amer-
655.4	Bookselling, history of.		ica).
581.9	Botany, geographical.	922.4	Dutch reformed church biography.
284.2	Calvinist church.	27	Ecclesiastical history.
922.4	"    lives.	378.	Education, college.
923.3	Capitalists' lives.	372.9	"    elementary.
922.2	Cardinals'    "	370.9	"    history of.

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 373. " private academies.  
 379. " public school.  
 923.7 Educators' lives.  
 372.9 Elementary education.  
 325.1 Emigrants.  
 923.1 Emperors' lives.  
 027.4 Endowed libraries.  
 373. " schools.  
 628.09 Engineering, sanitary.  
 283. Episcopal church.  
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 287.6 " Methodist, church.  
 922.7 " " " biog.  
 572.9 Ethnology.  
 027.1 Family libraries.  
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 336. Finance.  
 923.3 Financiers' lives.  
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 327. " relations.  
 354. " states, administration.  
 560.9 Fossils, geographical distribution.  
 027.9 Free news rooms.  
 027.4 " public libraries.  
 289.6 Friends or quakers.  
 922.8 " " " biography.  
 027.0 General libraries, hist., reports, etc.  
 581.9 Geographical botany.  
 591.9 " dist. of animals.  
 560.9 " " " fossils.  
 549.9 " " " minerals.  
 572.9 " " " races.  
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 911. " historical.  
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 55. Geology.  
 724.3 Gothic revival, architecture.  
 724.4 " Victorian, "  
 354. Government admin. (except U. S.).  
 027.5 " libraries.  
 352.0 " local.  
 923.2 Governors' lives.  
 724.2 Grecian revival, architecture.  
 614.09 Health, public.  
 911. Historical geography.  
 016.9 History, bibliography of.  
 362.9 Hospitals.  
 284.5 Huguenots.  
 922.4 " biography.  
 613.09 Hygiene.  
 325. Immigration.  
 338.9 Industrial legislation.  
 607. Institutes of technology.  
 368.9 Insurance.

373. Intermediate education.  
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 923.4 Law biography.  
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 352.0 Local government.  
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 549.9 Minerals, geographical distribution.  
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 780.9 Music, history of.  
 015. National bibliography.  
 920.0 " biography.  
 923.5 Naval "  
 724.6 Néo-Grec architecture.  
 027.9 News rooms, free.  
 923.2 Nobles' lives.  
 560.9 Paleontology.  
 027.8 Parish libraries.  
 328. Parliamentary bodies.  
 329.9 Parties, political (except U. S.).  
 923.6 Philanthropists' lives.  
 912. Plans of cities, etc.  
 581.9 Plants, geographical distribution.  
 363.9 Political associations.  
 923.3 " economy, biography.  
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 923.2 " science, biography.  
 320.9 " " history of.  
 923.2 Politicians' lives.  
 312. Population, statistics of.  
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 655.1 Printing, history of.  
 365.9 Prisons.  
 027.1 Private libraries.  
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 283. Protestant Episcopal church.  
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 922.4 Protestants, Continental, lives.  
 614.09 Public health.

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 655.4 Publishing, history of.  
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 724.5 Queen Anne architecture.  
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 572.9 Races of men.  
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 027.4 Rate supported libraries.  
 027.9 Reading rooms, free.  
 364.9 Reformatory institutions.  
 284.1 Reformed church.  
 285.7 " (Dutch) church in Amer.  
 922.4 " " " biography.  
 327. Relations, foreign.  
 27 Religious history.  
 724.1 Renaissance architecture.  
 282. Roman Catholic church.  
 922.2 " " " biography.  
 724.8 Romanesque revival, architecture.  
 923.1 Rulers, Chief, lives.  
 628.09 Sanitary engineering, history, etc.  
 284.7 Scandinavian church.  
 922.4 " " " biography.  
 027.8 School libraries.  
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 373. Schools, private.  
 379. " public, system.  
 508. Scientific travels.  
 366.9 Secret societies.  
 373. Seminaries, private.  
 923.5 Service, Civil, biography.  
 286.3 Seventh day baptist.  
 922.6 " " " biography.  
 289.8 Shakers.  
 922.8 " biography.  
 653.09 Shorthand, history.

- 326.9 Slavery, history.  
 367.9 Social clubs.  
 366.9 Societies, secret.  
 027.2 Society libraries.  
 923.5 Soldiers' lives.  
 379. State education.  
 027.5 " libraries.  
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 027.3 Subscription libraries.  
 324. Suffrage.  
 027.8 Sunday school libraries.  
 289.4 Swedenborgians.  
 922.8 " biography.  
 284.7 Swedish church.  
 922.4 " " biography.  
 724.7 Swiss architecture.  
 923.7 Teachers' lives.  
 607. Technical schools.  
 724.7 Timber architecture.  
 027.4 Town libraries, public.  
 91 Travel, description.  
 508 " scientific.  
 341.2 Treaties, texts and history.  
 724.4 Tudor architecture.  
 288. Unitarian church.  
 922.8 " biography.  
 289.1 Universalist church.  
 922.8 " " " biography.  
 378. Universities, history, reports, etc.  
 027.7 University libraries.  
 724.4 Victorian Gothic, architecture.  
 324. Voting.  
 922.4 Waldenses biography.  
 553.70 Waters, mineral.  
 376.9 Woman's education.  
 591.9 Zoölogy, geographical.

Table 2.—Form Divisions.

The form distinctions 01, Philosophy; 02, Compendis; 03, Dictionaries; 04, Essays; 05, Periodicals; 06, Societies; 07, Study and Teaching; 08, Polygraphy, Collective Works; 09, History, can be used wherever needed if these numbers are not already employed with other significations. They have been printed in the full tables only where they seemed specially needed.

The following is an alphabetical list of these divisions, and the figures prefixed should be *added* to the number of the subject to be sub-divided; e. g. Disputations on Chemistry in general 540.4; Dictionaries of Mining 622.03.

06	Academies.	02	Manuals.
06	Acts of societies.	08	Maxims.
04	Addresses.	01	Methods.
06	Associations.	08	Miscellanies.
02	Charts. Tabular views. Compendis.	07	Museums.
08	Collected works.	02	Outlines.
08	Collections.	04	Papers.
02	Compendis.	05	Periodicals.
03	Concordances.	01	Philosophy.
03	Cyclopedias.	08	Polygraphy.
03	Dictionaries.	06	Reports of societies.
04	Discourses.	05	Reviews.
04	Disputations.	07	Schools.
07	Education.	07	Seminaries.
03	Encyclopedias.	06	Societies.
04	Essays.	07	Study.
06	Exhibitions.	02	Systems.
08	Extracts.	07	Teaching.
09	History.	01	Theories.
04	Lectures.	04	Tracts.
04	Letters.	07	Training schools.
03	Lexicons.	06	Transactions.
08	Libraries, collections, series.	08	Treatises.
05	Magazines.	01	Utility.

Table 3.—Languages.

The table below includes all languages mentioned in the classification, except those in 494—499, not yet sub-divided.

Any language in this table may be sub-divided like 420, English.

Any philological topic in the index may be transferred to another language by replacing the initial figures of the language, as found in this table, by those of the second language also found here; e. g., Syntax, English language, in the index is 425.2. In this table, English is 42 and French is 44; replacing the 42 by 44 gives 445.2 French syntax. Hebrew is 492.4, and Hebrew syntax is 492.452.

A third way to sub-divide the language is to prefix the language figures as given in this table to the philological numbers given in Table 4.

All three methods give the same result.

491.58	Afghani.	491.69	Basque.
492.8	Amharic.	491.44	Bengali.
429.	Anglo Saxon.	491.86	Bohemian.
492.7	Arabic.	491.68	Breton, Bas.
492.1	Aramaic.	491.81	Bulgarian.
491.54	Armenian.	492.6	Carthaginian.
491.68	Armorican.	449.9	Catalan.
492.19	Assyrian.	492.2	Chaldee.
491.52	Avestan, Zend.	491.81	Church Slavonic.
492.19	Babylonian.	493.2	Coptic.
491.52	Bactrian, Old.	491.67	Cornish.
491.68	Bas Breton.	491.83	Croatian.

- 492.19 Cuneiform.  
 491.65 Cymric Group.  
 491.66 " or Welsh.  
 439.8 Danish.  
 439.4 Deutsch, Platt.  
 439.3 Dutch.  
 493.1 Egyptian, Old.  
 42 English.  
 427.01 " Old.  
 491.61 Erse, Gadhelic group.  
 491.63 " Gaelic.  
 492.8 Ethiopic.  
 477.5 Etruscan.  
 439.6 Faroese.  
 439.3 Flemish.  
 44 French.  
 447.01 " Old.  
 439.2 Frisian.  
 491.61 Gadhelic Group.  
 491.63 Gaelic or Scotch.  
 43 German.  
 437.02 " Middle High.  
 437.01 " Old High.  
 439.9 Gothic.  
 48 Greek.  
 489. " Modern.  
 491.47 Gujerati.  
 492.4 Hebrew.  
 492.9 Himyaritic.  
 491.43 Hindi.  
 491.1 Hindu languages.  
 491.43 Hindustani.  
 491.53 Huzwaresh.  
 439.6 Icelandic.  
 491.1 Indic Group.  
 491.62 Irish.  
 45 Italian.  
 492.4 Jewish.  
 491.83 Kroatian.  
 491.57 Kurdish.  
 47 Latin.  
 479. " Medieval.  
 491.93 Lettish.  
 491.92 Lithuanian.  
 491.93 Livonian.  
 439.3 Low Dutch.  
 479 " Latin.  
 491.64 Manx.  
 491.46 Marathi.  
 479. Medieval Latin.  
 437.02 Middle High German.  
 489. Modern Greek.  
 491.55 " Persian.  
 491.87 Moravian.  
 492.19 Nineveh Cuneiform.  
 439.6 Norse, Old.  
 439.8 Norwegian.  
 491.52 Old Bactrian.  
 493.1 " Egyptian.  
 427.01 " English.  
 447.01 " French.  
 437.01 " High German.  
 439.6 " Norse.  
 491.51 " Persian.  
 491.91 " Prussian.  
 439.2 " Saxon.  
 491.45 Orissa.  
 491.56 Ossetic.  
 491.3 Pali.  
 491.42 Panjabi.  
 491.53 Pehlevi.  
 491.55 Persian, Modern.  
 491.51 " Old.  
 492.3 Peshito.  
 492.6 Phenician.  
 439.4 Platt Deutsch.  
 491.89 Polabian.  
 491.85 Polish.  
 469. Portuguese.  
 491.2 Prakrit.  
 449. Provençal.  
 491.91 Prussian, Old.  
 491.58 Pushtu.  
 459.9 Rhaeto-Romansh.  
 489. Romaic.  
 459. Roumanian.  
 459.9 Rumansh.  
 491.7 Russian.  
 491.79 Ruthenian.  
 492.5 Samaritan.  
 491.2 Sanskrit.  
 429. Saxon, Anglo.  
 439.2 Saxon, Old.  
 439.5 Scandinavian languages.  
 491.63 Scotch or Gaelic.  
 491.82 Servian.  
 491.41 Sindhi.  
 491.48 Singhalese.  
 491.81 Slavonic, Church.  
 491.87 Slovakian.  
 491.84 Slovenian.  
 491.88 Sorbian.  
 46 Spanish.  
 439.7 Swedish.  
 492.3 Syriac.  
 491.45 Uriya.  
 459. Wallachian.  
 491.66 Welsh.  
 491.52 Zend.

## Table 4.—Philological Divisions.

All the languages in Table 3 can be divided like 420, English, by adding the figures below; e. g.:

English orthography	421
Provençal “	449.1
Arabic “	492.71
Gaelic “	491.631
Syntax of English verbs	425.8
“ Modern Greek verbs	489.58
“ Danish “	439.888
“ Armenian “	491.5458
Infection of English nouns	425.15
“ Anglo-Saxon nouns	429.515
“ Hebrew “	492.4515
“ Welsh “	491.66515

<p>18 Abbreviations.</p> <p>12 Ablaut.</p> <p>16 Accent, pronunciation.</p> <p>61 “ prosody.</p> <p>51 Accidence.</p> <p>25 Accusative, etymology.</p> <p>55 “ syntax.</p> <p>26 Adjectival forms, derivation.</p> <p>516 Adjectives, inflection.</p> <p>56 “ syntax.</p> <p>29 Adverbs, derivation.</p> <p>59 “ syntax.</p> <p>22 Affixes, derivation.</p> <p>11 Alphabet.</p> <p>21 Analogy.</p> <p>53 Analysis, grammar.</p> <p>67 Antistrophe, prosody.</p> <p>28 Aorist, etymology.</p> <p>58 “ syntax.</p> <p>7 Archaisms.</p> <p>709 Argot.</p> <p>53 Arrangement of words and clauses.</p> <p>56 Articles, syntax.</p> <p>12 Aspirates.</p> <p>28 Augment, etymology.</p> <p>83 Barbarisms.</p> <p>83 Blunders.</p> <p>25 Case endings, derivation.</p> <p>55 Cases, syntax.</p> <p>87 Chrestomathies.</p> <p>53 Clauses, arrangement of.</p> <p>516 Comparison, inflection.</p> <p>26 Comparison, signs of, derivation.</p> <p>54 Conditional sentences.</p> <p>518 Conjugation.</p> <p>29 Conjunctions, etymology.</p> <p>59 “ syntax.</p> <p>28 Conjunctive mood, etymology.</p> <p>58 “ “ syntax.</p> <p>13 Consonants.</p> <p>12 Crasis.</p> <p>25 Dative case, etymology.</p> <p>55 “ “ syntax.</p> <p>515 Declension of nouns.</p>	<p>2 Derivation of words.</p> <p>7 Dialects.</p> <p>3 Dictionaries.</p> <p>25 Diminutives, derivation.</p> <p>12 Diphthongs.</p> <p>17 Diplomatics.</p> <p>701 Early forms of language.</p> <p>86 Elementary readers.</p> <p>53 Ellipsis.</p> <p>52 Enallage.</p> <p>83 Errors of speech.</p> <p>2 Etymology, derivation.</p> <p>51 “ inflection.</p> <p>89 Examination papers.</p> <p>63 Feet, prosody.</p> <p>64 Figures of prosody.</p> <p>82 First lessons.</p> <p>63 Foot, prosody.</p> <p>24 Foreign elements.</p> <p>25 Gender, etymology.</p> <p>25 Genitive case, etymology.</p> <p>55 “ “ syntax.</p> <p>7 Glossaries, dialects.</p> <p>3 “ language.</p> <p>83 Grammatical errors.</p> <p>65 Hexameters.</p> <p>64 Hiatus.</p> <p>54 Hypothetical sentences.</p> <p>31 Idioms.</p> <p>88 Individual authors, texts.</p> <p>28 Infinitive mood, etymology.</p> <p>58 “ “ syntax.</p> <p>51 Inflection.</p> <p>516 “ of adjectives.</p> <p>515 “ “ nouns.</p> <p>517 “ “ pronouns.</p> <p>518 “ “ verbs.</p> <p>17 Inscriptions.</p> <p>29 Interjections, etymology.</p> <p>59 “ syntax.</p> <p>29 Interrogatives, etymology.</p> <p>59 “ syntax.</p> <p>21 Laws of language.</p> <p>1 Letters, alphabet.</p>
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3	Lexicography.	86	Readers, elementary.
3	Lexicons.	87	“ selections.
17	Manuscripts.	23	Reduplication, derivation.
65	Meters, prosody.	27	Relative pronouns, “
28	Moods, signs of, derivation.	57	“ “ syntax.
58	“ syntax.	66	Rhymes, prosody.
52	Morphology.	66	Rhyming dictionary.
25	Noun forms, derivation.	8	School books and texts.
515	Nouns, inflection.	87	Selections, readers.
55	“ syntax.	54	Sentences of particular form.
25	Number, signs of, derivation.	709	Slang.
701	Old forms of language.	81	Spelling books.
21	Origin of language.	14	“ reform.
15	Orthoëpy.	67	Strophe, prosody.
1	Orthography.	22	Suffixes, derivation.
17	Palæography.	4	Synonyms.
52	Parsing.	52	Syntax.
29	Particles, derivation.	28	Tense signs, derivation
59	“ syntax.	58	“ syntax.
27	Personal pronouns, derivation.	8	Text books.
14	Phonetic spelling.	68	“ “ for writing verse
82	Phrase book.	88	Texts of individual authors.
27	Possessive pronouns, derivation.	12	Umlaut.
57	“ “ syntax.	83	Use of words.
22	Prefixes, derivation.	28	Verbal forms, derivation.
29	Prepositions “	518	Verbs, inflection.
59	“ syntax.	58	“ syntax.
27	Pronominal forms, derivation.	68	Verse, text books for writing.
517	Pronouns, inflection.	62	Versification.
57	“ syntax.	28	Voice signs, derivation.
15	Pronunciation.	12	Vowels.
82	Prose composition.	83	Vulgarisms.
6	Prosody.	53	Words, arrangement of.
7	Provincialisms.	2	“ etymology.
19	Punctuation.	83	“ use of.
61	Quantity, prosody.		

Table 5. — Literatures.

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany; may be used to sub-divide any of the languages in the following tables; and any division of English literature in the index referring to this table may be used in sub-dividing another literature, by replacing the initial figures 82 (denoting English) by the figures of the 2d language as given in this table.

Thus Ballads, English literature in the index are 821.04 and in this table Spanish is 86, therefore 861.04 is Spanish ballads; 891.7 is Russian and 891.7104 is Russian ballads.

While this minute division is possible, it is not expedient in all cases: e. g. Icelandic literature will contain little except in one or two of these divisions and a special arrangement similar to 829 Anglo-Saxon is much more convenient.

891.58	Afghani.	891.43	Hindi.
892.8	Amharic.	891.1	Hindu languages.
892.7	Arabic.	891.43	Hindustani.
892.1	Aramaic.	891.53	Huzwaresh.
891.54	Armenian.	839.6	Icelandic.
891.68	Armorican.	891.1	Indic Group.
892.19	Assyrian.	891.62	Irish.
891.52	Avestan, Zend.	85	Italian.
892.19	Babylonian.	892.4	Jewish.
891.52	Bactrian, Old.	891.83	Kroatian.
891.68	Bas Breton.	891.57	Kurdish.
891.69	Basque.	879.	Latin, Medieval.
891.44	Bengali.	891.93	Lettish.
891.86	Bohemian.	891.92	Lithuanian.
891.68	Breton, Bas.	891.93	Livonian.
891.81	Bulgarian.	839.3	Low Dutch.
892.6	Carthaginian.	879	“ Latin.
849.9	Catalan.	891.64	Manx.
892.2	Chaldee.	891.46	Marathi.
891.81	Church Slavonic.	879.	Medieval Latin.
893.2	Coptic.	889.	Modern Greek.
891.67	Cornish.	891.55	“ Persian.
891.83	Croatian.	891.87	Moravian.
892.19	Cuneiform.	892.19	Nineveh Cuneiform.
891.65	Cymric Group.	839.6	Norse, Old.
891.66	“ or Welsh.	839.8	Norwegian.
839.8	Danish.	891.52	Old Bactrian.
839.4	Deutsch, Platt.	893.1	“ Egyptian.
839.3	Dutch.	839.6	“ Norse.
893.1	Egyptian, Old.	891.51	“ Persian.
82	English.	891.91	“ Prussian.
891.61	Erse, Gadhelic group.	839.2	“ Saxon.
891.63	“ Gaelic.	891.45	Orissa.
892.8	Ethiopic.	891.56	Ossetic.
839.6	Faroese.	891.3	Pali.
839.3	Flemish.	891.42	Panjabi.
84	French.	891.53	Pehlevi.
839.2	Frisian.	891.55	Persian, Modern.
891.61	Gadhelic Group.	891.51	“ Old.
891.63	Gaelic or Scotch.	892.3	Peshito.
83	Germar.	892.6	Phenician.
839.9	Gothic.	839.4	Platt Deutsch
889.	Greek, Modern.	891.89	Polabian.
891.47	Gujerati.	891.85	Polish.
892.4	Hebrew.	869.	Portuguese.
892.9	Himyaritic.	891.2	Prakrit.

- |        |                         |        |                   |
|--------|-------------------------|--------|-------------------|
| 849.   | Provençal.              | 891.82 | Servian.          |
| 891.91 | Prussian, Old.          | 891.41 | Sindhi.           |
| 891.58 | Pushtu.                 | 891.48 | Singhalese.       |
| 859.9  | Rhaeto-Romansch.        | 891.81 | Slavonic, Church. |
| 889.   | Romaic.                 | 891.87 | Slovakian.        |
| 859.   | Roumanian.              | 891.84 | Slovenian.        |
| 859.9  | Rumansh.                | 891.88 | Sorbian.          |
| 891.7  | Russian.                | 86     | Spanish.          |
| 891.79 | Ruthenian.              | 839.7  | Swedish.          |
| 892.5  | Samaritan.              | 892.3  | Syriac.           |
| 891.2  | Sanskrit.               | 891.45 | Uriya.            |
| 839.2  | Saxon, Old.             | 859.   | Wallachian.       |
| 839.5  | Scandinavian languages. | 891.66 | Welsh.            |
| 891.63 | Scotch or Gaelic.       | 891.52 | Zend.             |

### Biscoe time and Olin biography book numbers

**Biscoe time numbers** This scheme provides for arranging books by years from 1000 B C-2000 A D. Each number consists of a single initial letter followed by figures, and these again, if necessary, by letters. Any year of the 19th century, in which the greater proportion of our books belong, is designated by a letter and single figure. For the 3 preceding centuries a letter and 2 figures are needed, only incunabula and ancient writings requiring a letter and 3 figures. Few characters are wasted for the period when few books were written, as A, B, and C cover the years to 1499 A D.

To D, E, F, which stand for centuries, 2 figures must be added, the number for a book published in 1652 being E52; in 1507, D07.

B, covering the first 10 centuries and C, covering 5 centuries, must be followed by 3 figures; thus a book issued in 1472 would be numbered C472.

Table of Biscoe numbers

A	B. C.	J	1830-1839	S	1920-1929
B	A. D. 1-999	K	1840-1849	T	1930-1939
C	1000-1499	L	1850-1859	U	1940-1949
D	1500-1599	M	1860-1869	V	1950-1959
E	1600-1699	N	1870-1879	W	1960-1969
F	1700-1799	O	1880-1889	X	1970-1979
G	1800-1809	P	1890-1899	Y	1980-1989
H	1810-1819	Q	1900-1909	Z	1990-1999
I	1820-1829	R	1910-1919		

American books take their numbers from the last copyright date; English and other foreign books, from date of publication: e. g. Dana's *Text book of geology*, Phil. 1864, copyright '63 has as its booknumber M3; edition 2 of the same book published and copyrighted in 1874 is N4. Weller's *Portable atlas of physical geography*, London 1873, is N3.

A series or set takes its number from the first volume, even though that may be lacking in the library set; e. g. *Popular science monthly*, v. 10-20, is M2, the date of v. 1 not of v. 10. When more than one volume in the same class calls for the same number, these numbers are differentiated by adding lower case letters; e. g. Bradbury & Emery's *Academic algebra*, Sensenig's *Numbers universalized*, and Wells's *Short course in higher algebra* all published in 1889 call for O9. Supposing them to come into the library in the above order, Bradbury would be O9; Wells O9a; Sensenig, O9b. In a closely classed library additions to final subdivisions are seldom more than one a year. In the exceptional cases, use of a letter allows for 26 additions; the numbers are therefore neither long nor complicated.

If in doubt, an approximate date may be used and corrected later when full information is acquired. Hunting down obscure dates consumes a

great deal of time and in the average library is not worth what it costs. L alone would mean a book published somewhere in the '50s of the present century, and F9 one of the last decade of the 18th (F09 being the mark for 1709). This occasional uncertainty is analogous to the case of anonymous and pseudonymous books in an author arrangement.

Dates B. C. may be treated in any one of the 3 ways suggested below. If numbers are given from date of writing or first publication there will be a few A books; but if from date of printing or copyright, none at all. Of the 3 ways below of treating dates B. C. the first is best:

1 Subtract the decade B. C. from 99 and use the resulting number, thus securing correct order with a shorter number than in 2. This approximate date is close enough, since exact year of writing is difficult to determine and the number of books in any subject in a single decade small.

Alternatives are:

2 Subtract the date B. C. from 1000 and use the resulting number, which will secure proper sequence.

3 Use actual B. C. date, since among so few books no great confusion would result from thus inverting the regular order.

Resulting numbers would then be:

Year B. C.	Complementary decade (1)	Complementary year (2)	Actual date (3)
999	A00	A001	A999
563	A43	A437	A563
73	A92	A927	A73
45	A95	A955	A45

**Olin book numbers** The best means of separating collective from individual biography is Olin book numbers. They are used exactly like Cutter author numbers; but as they translate all surnames of compilers into A followed immediately by figures, they precede the first Cutter number, Aa1 and thus automatically shelf biographic compilations before the cuttered individual lives; e. g. Strickland's *Queens of England* would be A84 (Olin number) and stand before a life of Queen Anne, An7 (Cutter number) whether classed 920 or 923.1.

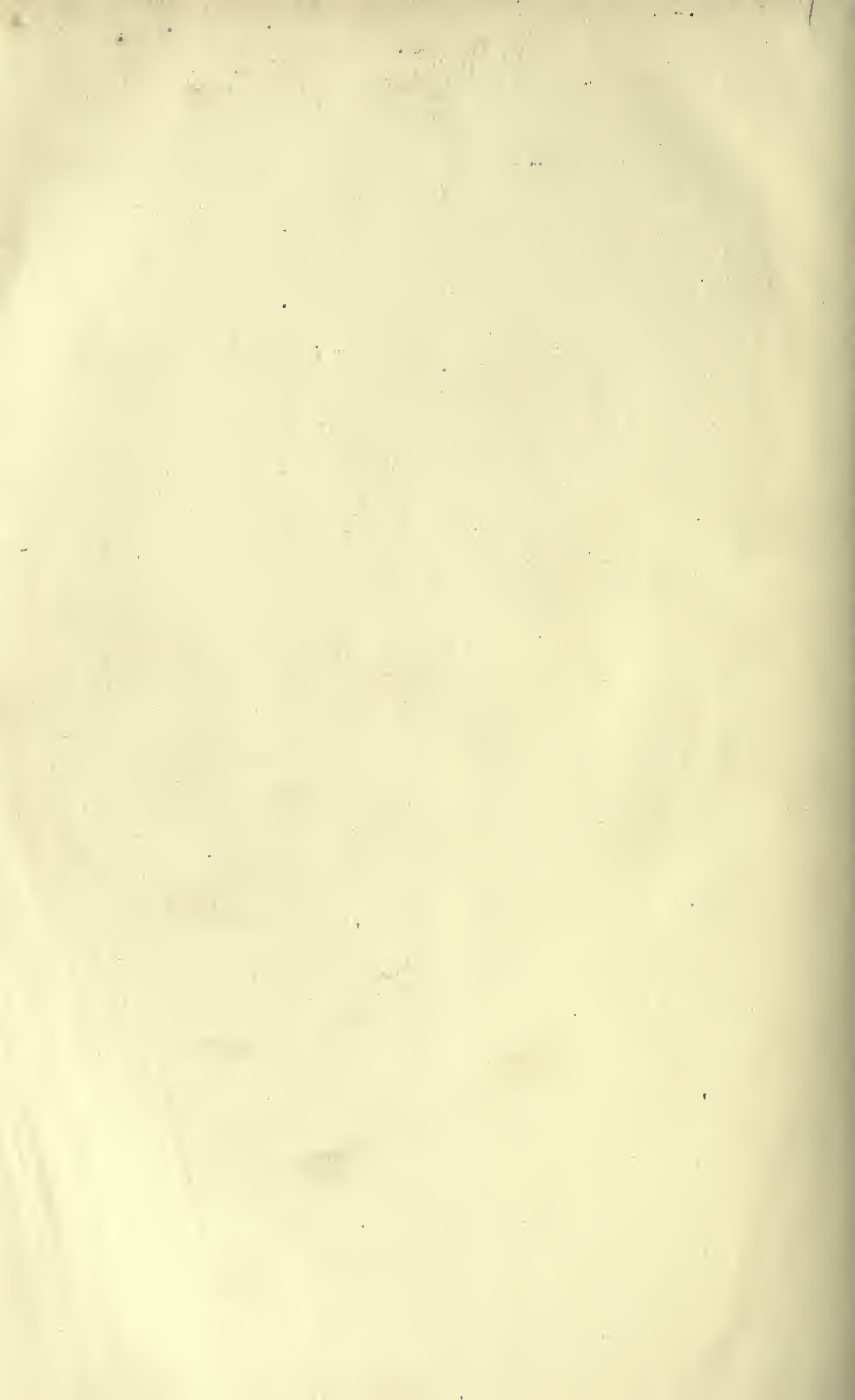
## Table of Olin numbers

From *Library journal* 18:144

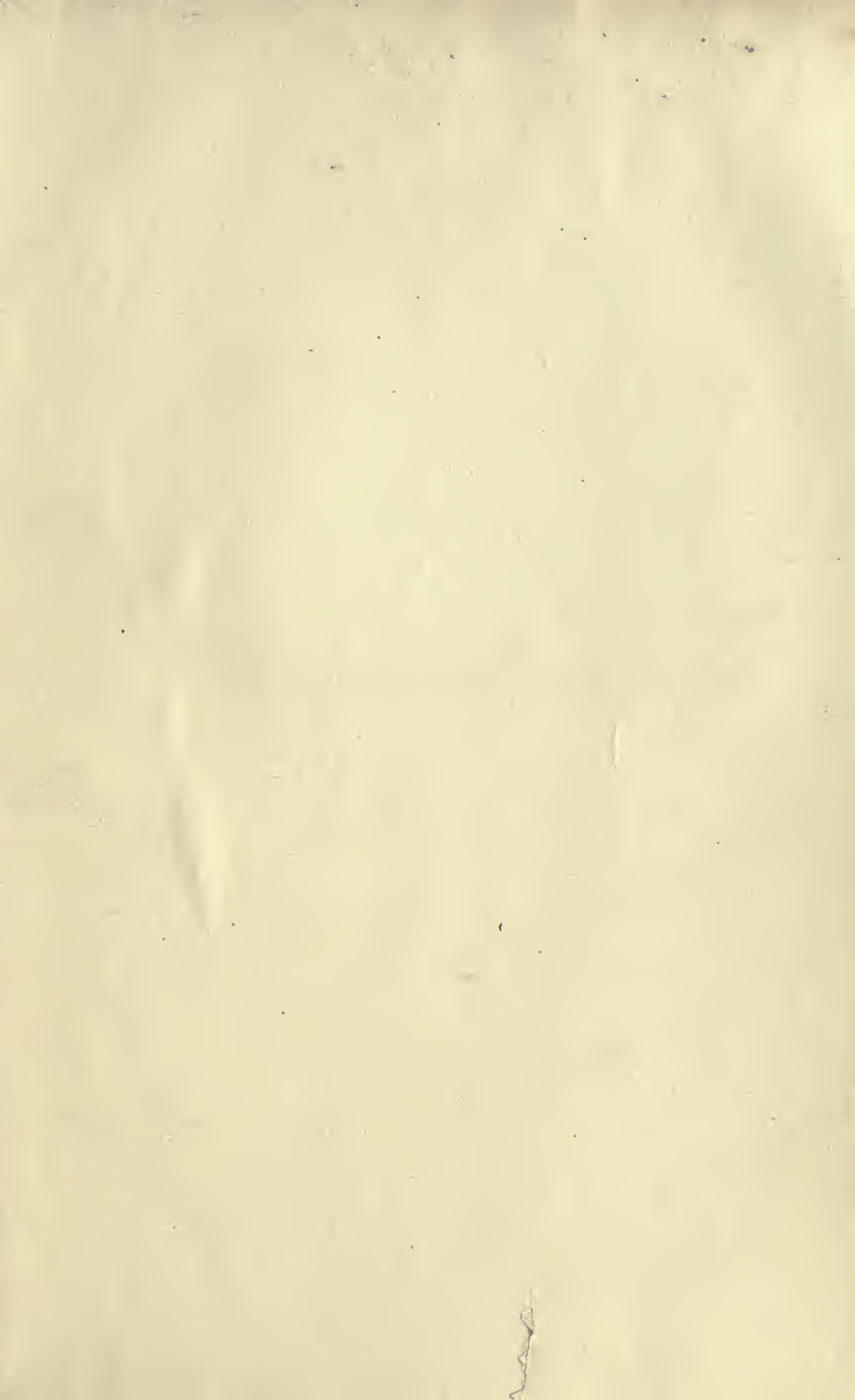
Name	Number	Name	Number	Name	Number	Name	Number
A	A11	Forr	A34	Lod	A56	Sch	A78
Ba	A12	Ga	A35	Ma	A57	Scr	A79
Bel	A13	Ges	A36	McT	A58	Sea	A81
Boy	A14	Goe	A37	Mat	A59	Sia	A82
Ca	A15	Grat	A38	Merr	A61	Sma	A83
Caro	A16	Ha	A39	Mo	A62	Squa	A84
Cel	A17	Hat	A41	Mos	A63	Sva	A85
Chim	A18	Hesi	A42	Na	A64	Ta	A86
Clar	A19	Hiu	A43	Nee	A65	Thau	A87
Coh	A21	Hov	A44	O	A66	To	A88
Coom	A22	I	A45	Pa	A67	Trum	A89
Cs	A23	Ja	A46	Per	A68	U	A91
Da	A24	Ji	A47	Ple	A69	V	A92
Day	A25	Ka	A48	Q	A71	Wa	A93
Dick	A26	Keno	A49	Ra	A72	Wats	A94
Doy	A27	Klu	A51	Rem	A73	Wha	A95
Ea	A28	La	A52	Rim	A74	Wit	A96
En	A29	Lann	A53	Rol	A75	X	A97
Fa	A31	Le	A54	Ru	A76	Y	A98
Fel	A32	Lind	A55	Sa	A77	Z	A99
Fit	A33						

If Cutter-Sanborn tables (in which vowels like consonants are followed by figures) are used, mark collected biography with A followed by a shortened Cutter-Sanborn number for author or compiler, writing the initial letter of the Cutter-Sanborn number with a lower case letter; e. g. Strickland's *Lives of the queens of England*, the Cutter-Sanborn number for Strickland being S917, would be marked As9 or Johnston's *Leading American soldiers*, the number for Johnston being J73, would be Aj7









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