Harvard College
Library

FROM THE BEQUEST OF
FRANCIS BROWN HAYES
Class of 1839
OF LEXINGTON, MASSACHUSETTS
Decimal Classification

and

Relativ Index

for libraries, clippings, notes, etc.

Edition 7

By

Melvil Dewey MA LL D

Forest Press
Lake Placid Club N Y
1911
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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.
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Simplified Spelling Board, 1 Madison Ave., New York.

The sin stain reader is urged again to make the great benefit of a rational dictionary clear to all.
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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. Cyclopedia, 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 developd 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 increast 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 containd on any given subject; yet, by the methods then used, this could be done satisfactorily only at a cost so great as to be prohibîtiv to all but a few wealthy libraries. With rare exceptions, libraries were growing rapidly. Catalogs, made at great cost, became antiquated soon after being finisht. 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 explaind proves that it will accomplish this result; for with its aid catalogs, shelf lists, indexes, and references, essential to this increast 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
DECIMAL CLASSIFICATION

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 criticized 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.

<table>
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<td>2</td>
<td>1885</td>
<td>66</td>
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<td>4</td>
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What is the system?—A Relativ Index 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.

---

1The 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 hingesthe most ever
been used as here to index by a single reference the most diverse material. The relatival
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,
to 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.
DECIMAL FORM OF THE SYSTEM

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 workt out in his Boston Athenæum classification), 50, 100, and 150, yet none have seemd 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 markt 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 groupd and numberd 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 publisht, 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 workt out he saves much time and money, gains the immense advantage of using a system in common with hundreds of
DECIMAL CLASSIFICATION

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

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, through 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 employee, 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.
RELATIV SUBJECT INDEX

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 classt 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, classt 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 fulfilled. 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 reach 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 prefixed—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. Encyclopedias, 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 (Zoology) 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 subdivision 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 Zoology (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 geographical 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 seem 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, assigned, 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 924, 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 peri-
odicals, 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, diction-
aries, 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 zoological 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, how-
ever desirable so close classification might be. As soon, however, as
actual experience proved it as easy to use 1,000 heads in the new sys-
tem as 100 in the old, the obviously great practical value of close clas-
sification 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 with-
out difficulty or confusion, thus allowing each to use minute sub-
divisions 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 053, 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 gram-
mar, 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. Sugges-
ted 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
MNEMONICS

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, the 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-
DECIMAL CLASSIFICATION

jects on the decimal prouctean 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 seemed the most useful way, all things considered. 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 seemed 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 prophetical 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 "prouctean 10." In fact, this is an element of usefulness. A railroad also has the fault that it is prouctean 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 prouctean 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 prouctean. Without it we should lose the great simplicity of the Relativ Index, many mnemonic correspondences, and the useful
RELATIVE LOCATION

0 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.

Relative 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 shelved. By relative 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 abandoned, relative 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.1 In finding books, the printed numbers on the backs are followed, 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 numbered, 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 received, are numbered 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 followed 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 recataloged. 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 raised 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 relative location a

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1For suggestions regarding forms of book numbers best used with this scheme of classification, see p. 30.
DEIMAL CLASSIFICATION

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 last 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 seems 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.

**Pamflets.**—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

(22)
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 vexat 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 exclusiv 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 assignd 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 approacht would endow some topic, even if a small one, and this relativity location, with its definit 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 sumd up as follows: Compared with other systems it is less expensv; 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 thuroly 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 clast catalogs, and is the first satisfactory union of the advantages of the clast and dictionary system.
USE OF TABLES AND INDEX

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
DECaIMAL CLASSIFICATION

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 gaind from title and contents.

5. Reference books.—If preceding means fail, consult reliable bibliografies, clast and annotated catalogs, biografical 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.

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.
ASSIGNING CLASS NUMBERS

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 markt 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 markt 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 shelves or in catalogs. The numbers are merely skipt. This plan not only does no harm, but has the considerable negatif 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

Geografical 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
DECIMAL CLASSIFICATION

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 markt 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 biograpees. 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.1

1 For full explanations and table of Biscoe numbers see p. 789-90
VARIATIONS

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 marke; 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 markt 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. $\frac{51}{3}$ 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 comparativ ease and cost of introducing them into any given library.

Cautions.—Having decided to adopt the system in its decimal form as wrought 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 til' 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 compeld 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 cooperation 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 learnt if numbers have been already assignd 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 cooperation 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. 87-9.
LETTER NOTATIONS FOR CHANGES

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 conclusive 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 wished. 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 class exactly as if for adults, then a J is prefixed to show their special character. This gives J alone as the class number for juvenile 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, juvenile history of Scotland, and J943, juvenile 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 juvenile 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. Juvenile books go with adult books of the same class, unless a special J library is made, containing all juveniles.

Biography.—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 biographies in one alphabet of names of persons written about, marking all the books simply B for class number, and indicating the subject or biographee by a Cutter book number; e.g. life of Grant, B G76. This is most compact for charging, and is preferred in popular libraries of large circulation.

The third plan is to distribute biography 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 biography, putting B in place of the biography figures 92; i.e. mark Wagner’s life B782.2 (927.822). Then it arranges either with 782.2 or with biography, as preferred, 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, juveniles, and biography 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 grouped 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 marked 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
CONTRACTIONS. USE OF ALPHABET OR CHRONOLOGY

preferred to abolish the class, Philology, and make it simply an appendix to Literature; and the reverse would hold true if a philologist wished 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, 820, 821, etc. For a better plan see Broken order, p. 367–374.

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 Phoenix 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 080, 8 being the regular number for general collections (as in 508, 520.8, etc.), for these special libraries which cannot be separated because of binding or conditions of gift. But instead of the three figures in 080, 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 0 in the class “General works” was formerly recommended; e. g. 51 instead of 051 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 051, etc.

Another reason is that the one and two figure numbers 1–99 are thus left available, and can be assigned to special use without confusion with tables or Index, for initial 0 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. Contraction 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
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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 alphabet or chronology for final subdivisions.—While our plan is decimal as distinguished from the "dictionary system," we never hesitate to use the alphabet 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 rerum 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 alphabet 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 alphabet under 546. Such use of the alphabet causes no confusion with the index, as it is simply subdividing more closely, unless, as in the last case (546.3), the alphabet 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.
  34 Alkali group.
  32 Potassium.
  33 Sodium.
  33 Lithium.
  34 Rubidium.
  35 Caesium.
```

Arrange metals alphabetically.

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

```
Potassium, inorganic chemistry, 546.3a
Rubidium, "  " 546.3b
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This plan has special value in this place, as new elements are discovered from time to time, and can readily be inserted in alphabetic 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.

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 markt 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 markt 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 markt 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 — ar 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 developpt many new applications. Nearly every administrativ 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 sanguin 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 publisht, is reported “not in stock,” when such an arrangement by subjects would have reveald its place at once. Specialists often find on the shelves books that they would never have orderd, 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 alfabetic subheads. Scraps thus mounted are shelvd either in manila pamflet 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 alfabetic 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, 530 Atlantic avenue, 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 12 1/2 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, 7 1/2 x 12 1/2, 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 fixt location as compared to the relativ, 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.

Tho much elaborated and in some points altered, the essential character of the plan has remaind 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 faild 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 renderd 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 appreciativ 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 receivd suggestions and gaind 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, tho 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 followed. 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 involves 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 asked 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 bibliography 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:

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<td>.7–9</td>
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<td>375.01–04</td>
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<tr>
<td>.6–63</td>
<td>.99</td>
<td>.94</td>
</tr>
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<td>.67–68</td>
<td>541.1 vacant</td>
<td>.99 vacant</td>
</tr>
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<td>.91–97</td>
<td>.3</td>
<td>642</td>
</tr>
<tr>
<td>372.1 vacant</td>
<td>543.8–9</td>
<td>643</td>
</tr>
<tr>
<td>.8</td>
<td>620.1</td>
<td>647</td>
</tr>
</tbody>
</table>

(42)
Separates There is growing use by specialists who wish very detaild tables of their subjects, but only so much else as will show the perspectiv 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 publisht 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.

Bibliografic 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, tho 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 bibliografic 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 numberd 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 considerd 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 (0) Form or generalities are exprest by a parenthetic number beginning with 0. This is farther subdivided as follows:

(a) Form symbol: e. g. 335 (0.843) 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 cannot replace our long established simple form numbers by something so much more complex that it is impracticable for shelf use.

5 Universality sign ∞ 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 the symbol (see 6 below) it means 'including all places': e. g. 9(∞) History of all countries; 9(∞)“∞” 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 D C 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 curvs.

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 oo 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 Servis and use: workings, administration
005 Equipment and apparatus
006 bildings and establishments: details of organization and servis
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

(o) “” == : A-Z

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

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INDEX. ACKNOWLEDGMENT

Index The relative index is greatly enlarged both by heads from new tables and by many new references to tables not yet revised, and is consolidated into a single alphabet. It aims as heretofore to include every synonym likely to be sought of subjects expressed or implied in the tables. Instead 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 indebtedness 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 indebted for much valuable constructive 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 Voge 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 headings 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 constructive work, has secured expert cooperation, called attention to faults or omissions and sought the best available compromises where doctors disagreed. This supervision will continue, so that future editions will
benefit by the cumulativ 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.

Lake Placid Club N Y
10 April 1911

MELVIL DEWEY
INDEX TO INTRODUCTION

Superior figures indicate the part of the page in ninths; 1, 5 and 9 indicating top, middle and foot: 27² means half way between top and middle of p. 27.

D C means Decimal classification.
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
## Second Summary

### Divisions

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### Special libraries. Polygraphy

- Left blank to be used (if preferred 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, address, scrap or note books, etc., too general in scope to go under any single class. Juveniles could be put here, but are better kept in a separate class, marked J.

### Book rarities

- Manuscripts. Autographs.
- Early printed. Incunabula.
- Rare printing. Privately printed.
- Rare binding.
- Rare illustrations or materials.
- Ownership. Bookplates.
- Prohibited. Lost. Imaginary.
- Other rarities. Curiosa.
# Philosophy

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717 Arbors. Seats. Outlooks
718 Monuments. Mausoleums
719 Cemeteries

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728 Residences
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743 Art anatomy. Life school
744 Mathematical drawing
745 Ornamental design. Carpet, etc.
746 Art needlework
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748 Stained and iridescent glass
749 Artistic furniture

750 Painting
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753 Epic. Mythic. Idealistic
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757 Portrait
758 Landscape. Marine
759 Various schools

760 Engraving
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767 Etching. Dry point
768 Banknote. Machine
769 Collections of engravings

770 Photography
771 Photographic chemistry
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774 " and printer's ink. Albertype
775 Photolithography, etc.
776 Photozincography, etc.
777 Photo-engraving. Photo-electros
778 Special applications
779 Collections of photographs

780 Music
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794 Games of skill. Chess
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798 Horsemanship. Racing
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Complete Tables

INCLUDING ALL THE

SUB-SECTIONS
General works

010 Bibliography.

- 1, Theory, Utility, etc. - 2, Compendia - 3, Dictionaries - 4, Essays - 5, Periodicals - 6, Societies - 7, Education, Training, see also  000, 8, Polygraphy - 9, History.

011 General Bibliographies. Universal Catalogs.

012 is by Authors. If by Subjects they go in 016.
012-016 include both bibliographies and catalogs. 017-019 is limited to catalogs of general collections.

012 Of Individual Authors.

Alphabetized by bibliographers, not by compilers; e.g. Chaucer, Dante, Ruskin, etc. Authors on whom special collections are being made (e.g. in 800), attract their bibliographies to same number, leaving only a reference here.

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
082 " " " Roman catholics
378744 " " " Harvard graduates

9 Writings of foreign 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 writing of Swedes outside Sweden, 013.91485044 writings of Swedes in France, 013.9148507 of Swedes in America. This group under mother country; e.g. gathers together all lists of works by emigrant Swedes.

930-999 Foreign 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 foreign authors in France; 013.973 foreign authors in U S, 013.9730483 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 foreign 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, though 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; 016.09, of manuscripts; 016.4, of science; 016.9, of English history, etc.
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.

017 Classed Catalogs. Systematic or Logical.
For all forms of alphabetical subject catalogs, see 019. See 016 for Bibliographies.

018 Author Catalogs. See 011 for Bibliographies.
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, chronolog-
ical, and any other forms (except subject and dictionary) of catalogs of collections.

019 Dictionary Catalogs. Alphabetico-classed, etc.

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 Compends .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 governmental 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
Mutual benefit associations
Or class in 023.59, if preferred
A L A publishing board
For library leas see 021.3
Congress, conferences, meetings, temporary organizations
Commercial establishments Library Bureau
For commercial circulars see 020.85
Education Training Library schools
Instruction, schools
Standards, location, cost, etc.
Library schools
Use letter for each school, and if desired divide like 378 A-Z
Summer schools
Apprentices classes Training classes
Correspondence schools
Library institutes
Similar to teachers institutes; local meetings with a conductor, for discussion of practical problems
Courses in colleges and universities
Courses in normal and high schools
Private schools and instruction
Research work
Museums, exhibits
Collections of illustrative appliances, blanks etc
Special pedagogic methods
Competitions, prizes, traveling scholarships
Individual polygraphy
Collective
Extracts, maxims, anthologies
Recipes
Commercial circulars
See also 020.65 Commercial establishments
Curiosa, anecdotes, library humor, dummy book titles
History of library economy
For history of libraries both public and private see 027
Lives of librarians are class in 920.2. To keep them with the subject use 020.92, and for photographs of librarians 020.921. Collected lives may be separated from individual by use of the Olin book numbers. See p. 790, after Index
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 026 than in 031.2
   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, 025.317 Exclusion of immoral or ill made books

25 Library as a publisher
   " 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
   " 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 Work of individual libraries with schools
   Alphabeted 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 services 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 031.44

44 Extension courses Lecture study

45 Entertainments: dramatic, musical, etc.

46 Museums and temporary exhibits

47 Science museums or collections

48 Art galleries
Library as a recreation

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 023.15

.63 Centralization Grouping of libraries

.64 Cooperation between libraries
Cooperation in any special department is best 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 best 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 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
Library buildings
See also 737.8 Architecture. For care of building see 025.9

.1 Location, site, etc.

.11 Location with reference to field of work
Accessibility to population served, to other libraries, educational institutions, etc.

.12 Site
With reference to space, air, light, soil, slope of ground, etc.

.13 Provision for growth New buildings

.14

.15 Branches

.16 Delivery stations

.17 Newsrooms, reading rooms, etc.

.2 Material, protection

.21 Material: wood, brick, stone, steel, glass, etc.
Relative fitness for library buildings. See also 630.11 Strength of materials; 691 Building materials

.22

.23

.24 Fireproof construction

.25 Protection against fires
Location and relative efficiency of apparatus: hose extinguishers, chemical engines, 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
Alphabetized 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
.3141 Libraries under 50,000, small; i.e., under this number list plans of such libraries, but show them in their alphabetic place under 022.3
.3142 Libraries from 50,000–100,000, 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 referred to in 022.3, or in journals or reports cited elsewhere

.33 By country
Divide like 930–999 and use like 022.31–.33 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.
Artistic forms
Painted decoration, etc.
Stained glass
Accessories and fxt furniture
Include paintings, statues, busts, etc. as decoration for bilding. Special library furniture, bookcases, loan desks, etc. are 022.9
Construction
Divided like 737. Class here only discussions limited to library bildings
Library rooms as part of other bilding
Remodeling old bilding
Either other bildings (churches, residences, etc.) for library purposes, or remodeling a library to meet modern conditions

4 Storage and shelving

4.1 Storage
Capacity per square meter of floor, or running meter of cases; allowance for growth

4.2 Shelving round sides of room

4.2.1 Wall cases

4.2.2 Alcoves

4.2.3 Galleries

4.3 Stacks

4.3.1 Stack rooms
Dimensions, maximum width with natural light only. Number of rooms, one or several. Number of floors

4.3.2 Arrangement of cases
Parallel, radial; light; open access, supervision

4.3.3 Movable cases

4.3.4 Ailes
Position, width

4.3.5 Flooring of stack rooms
Solid, glass, open grating

4.3.8 Maximum floor load

4.4 Cases, tiers

4.4.1 Material; wood, metal, glass

4.4.2 Dimensions of case and tier, hight, length
See also 022.432 Dimensions of shelf

4.4.3 Plan of cases
Open or closed ends and backs; 1 or 2 ledges

4.4.4 Fixt or movable shelvs

4.4.5 Quarto and folio shelving

4.5 Shelves

4.5.1 Material
Wood, metal, glass, stone, sheet iron, skeleton steel

4.5.2 Dimensions; length, depth, thickness; standard shelf

4.5.3 Surface finish or covering
Paint, varnish, cloth or letter covering

4.5.4 Shelf supports: pins, brackets
Cases and shelves for large books, lying flat
Dimensions, sliding or roller shelves, etc.

Closed cases Doors: glass, screen or wood
Special cases
Hanging presses
New-book cases

Cases for maps, engravings, etc.
Cases for fotografos
Cases for lantern slides

Reading rooms
See also 022.03 Rooms for special material

General reading room Central hall
Small reading rooms Study rooms
Gallery study tables. For seminar and class rooms see 022.653
Reference room
Standard library
Women's room
Children's room

Administration and special rooms
Rooms for trustees or outside organizations
For trustees
" committees, commission, school board
" local societies
Administration rooms
Divided like 015
Rooms for special material
Divided like 015.17; e.g. 022.633 Newsrooms
Special collections: patents, local history, etc.
Instruction rooms, etc.
Lecture room or hall, theater, concert
Seminar room, class room
Museum
Art gallery
Exhibition room
Photographic and dark room
Piano and music room
Recreation rooms
Conversation room
Chess room
Other games
Billiards
Bowling
Gymnasium
Public rooms  Lavatories, etc.
Entrance halls and corridors
Waiting room
Telephone booth or room
Lunch room
Coat room
Toilet room, lavatories, etc.
Garage, bicycle room, etc.
Residence rooms
Librarian
Janitor

Lighting
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
Skylights
Prisms
Artificial lights: materials
Lamps, oil, etc.
Gas
Acetylene
Electricity
Fixtures
Portable or semiportable lights
Table lights
Standards
Bracket lamps
Chandeliers
Lighting of stacks by electricity
Fixt or movable lights

Heating and ventilation
General hygiene of library. Divided like 697

Fixtures, furniture, fittings
General furniture
Chairs
Tables
Desks
Revolving cases
Bases
Vertical files
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
      .945 Book lifts
      .946 Pneumatic tubes
      .947 Speaking tubes
      .948 Interdepartment telephones
         See also 621.3853, intercommunicating telephones
   .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 officers under governing board
      State or local civil servis. Special library examinations. Promotions. Probationary appointments. Temporary or limited period appointments. Appointments by executive officer
Governing board

Trustees, committees, directors, regents, etc.

Method of selection

Election, appointment, ex officio trustees, close corporation, i.e. self-perpetuating body

Number

Qualifications

Women as trustees

Powers and duties

Financial administration

Time and place of meetings

Executive Consulting librarian Library expert

For appointment see 023.2. See also 023.5–9, which apply to executive as well as to staff

Responsibilities and privileges

Staff

Including all subordinate positions. For method of appointment see 023.2

Qualifications

Personality Character Moral and social equipment

Mental equipment Natural ability

General education

Professional education Training

See also 030.7 Library schools

Reading of librarians

Physical equipment Health Exercise

Staff meetings Relations to head

Women as librarians

Including difference in salaries of men and women

Worries and trials

Longevity

Library benefit associations

See also 030.6

Daily hours Holidays and vacations

Daily hours

Records Record clock

Punctuality Tardiness

Hours for meals Lunch room

See also 022.6

Special work

Evening

Sunday

Holiday

Work by hour Overtime, extra hours

Making up lost time

Payment for overtime

Effect of overstrain on employees

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
   .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 Executive Director
       Chief or principal librarian, keeper, etc.
   .72 Department, division or section heads
       Librarians, sublibrarians, chiefs, heads
   .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 Stenographers
   .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 Courtesy Indifference
      See also 174 Business ethics; 177.1 Courtesy (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 2. L.t.
.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
Administration Departments

SUMMARY

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

025 is for the librarian's part. The trustees build and furnish (022); make rules for government and service (023), and regulations for readers (024); but the administration involves 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 (086).

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.

1 Executiv General supervision

11 Finances
See also 023.36 Financial administration of governing board

111 Invested funds, endowments, gifts
See also 027.9 Support

112 Appropriations: local or state
See also 021.8

113 Other money received
Fees, assessments, fines, payments for special services and investigations, etc.

114 Accounts: receipts and expenses, bookkeeping

115 Salary payments Staff payrolls
See also 023.8 Salaries

116 Expenses: fittings, supplies and incidentals
Class with a department supplies peculiar to it, their kind, quality, cost, etc; e. g. class catalog cards with 025.3. For bookbuying see 025.2

117

118 Cost of preparing books for shelving

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

121 Blanks and forms, stationery
If relating to a special department class with it; e. g. bookplates in 025.8

122 Publications

123 Reports and statistics
See also 027

124 Catalogs
See also 017-019. For cataloging see 025.3

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

126 Library magazine or paper

127

128

129 Duplicating by neostyle, carbon etc.
For machines and processes see 652. Class here discussion of fitness for library applications only
Correspondence

Stationery
  Material, weight, size and headings

Stenographers, dictation machines

Typewriters

Copiers
  Roller, press, carbons, portable. See also 025.139

Letter files
  See 029.8 for methods

Treatment of special material
  For general discussions. Class special work under each department; e.g.
  cataloging of incunabula in 025.3

Manuscripts and rarities
  Divided like 090

Pamphlets

Serials, documents, etc.
  Periodicals, magazines, etc.
  Newspapers
  Annual reports
  Documents; national, state and local

Broadsides

Clippings

Maps and charts

Art material
  Engravings, fotografas, drawings, lantern slides

Music: scores, rolls, etc.

Museum material

Administration of individual libraries
  Alphabet by name of library. For administration of special kinds of libraries
  see 026 and 027
025.2 Accession Acquisition

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 Specialization by libraries
  Division of subjects among local libraries. See also 021.64 Cooperation.
  For collections on special subjects, economics, science etc. see 026

.213 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 026.2
  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, sitting
  Separating books no longer of service 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; forein books thru home or American agent,
  thru foreign 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 sale catalogs, see 037-019

.225 Buying libraries in block

.226 Exchange

.227 Gifts
  Request blanks and records; gift lists; acknowledgments; privately
  printed books; propagandaist books
  For government documents and copyright books see 021.84
  See 025.268 for gifts from library to library
Ordering and receiving

For gifts, see 025.22; for exchanges, see 025.266

Ordering
Order slips or lists; order books or sheets; copies of orders; order index; order numbers

Examination for duplicates and verification
Misspelled names; changed titles; separates

Reception and opening
Express, mail, etc.; frequency of shipments; free delivery

Checking bills
Prices and amounts

Collation

Receipt index

Accession book

Importance of record
Accession book vs shelflist, etc.

Printed headings Items Fullness of entries

Accession number: volume, work or invoice

Accession stamp

Withdrawal book

Ownership marks
Private marks

Stamping
Ink, embossing, or perforating stamp.
Table and foot power

Book plates Plating

Library name on outside of book
Gilding or impressing name of library on back or covers

Card pockets

Duplicate and exchange departments

Duplicates
Definition, rules and decisions, marking, stamp, plate, etc.

Duplicates of institution's own publications
Either of library or larger organization including it; e.g. duplicate Columbia publications in Columbia University library; stock on hand

Cataloging

Arrangement

Sale for cash

Exchange
General exchange of publications; exchange accounts

Clearing house for duplicates
See also 021.852 Vattémare international exchanges, Smithsonian exchanges

Gifts to other libraries

Small libraries, hospitals, prisons, etc.
Large libraries, material not needed in small libraries deposited in great collections, see 025.218

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; Dictionaries, or combined; Cooperative rules; Size notation; Cooperative cataloging; Duplicated titles, print or photory; Mechanical accessories, cards cases and fittings, drawers, trays, blocks, checks, guides, labels.

Classification

For philosophic classification of knowledge, see 115 Methodology. This is for practical classing of books, pamphlets, and notes, rather than theoretic speculation. On shelves: in catalogs; in dictionary catalogs; Systems of notation, figures, letters, symbols, combined; Importance and advantages; Difficulties; Close vs broad classing; Mnemonic features; Basis of division; Coordination of special subjects.

Reference books Aids to readers

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

Loan

See 024.1 and 024.6 for regulations. Indicators; Charging systems, ledgers vs cards; Book cards, marks, pockets; Call slips, readers cards; Notices, reserves; Registers; Interlibrary loans; Mechanical accessories, slip cases, trays, tills, stamps, etc.

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.

Shelf

See 022.9, Shelving. Arrangement; Shelf numbers; Shelf and book labels; Fix and relative 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.

Bilding Care, cleaning, safety Janitor Police

See 022 for biding and fittings. This is janitor's department.
026 Libraries on special subjects
Histories, reports, statistics, bulletins, handbooks, circulars, and every-
thing about the library not more required in one of the sections above.
Subdivided by adding the class number of subject; e.g. a Medical library
is 026.6; a Chess library, 026.794; but the Catalog of a Chess library is
026.794. Blanka, etc. from any library go under subjects in 025, as more
used in studying topics; but, if history of individual libraries is special-
ized, duplicates are also desirable under the library in 026-7, thus mak-
ing 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 wishit by countries, like 910-999; e.g. 027.744 College
libraries in France. Or if wishit, group all by geographic 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 class 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
.2.1 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 mercantile library, even tho it has endowments, if open with-
out 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 Endowed
See also 331.85

.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 Sunday school Parish
See also 371.04; 021.3

.9 Free newsrooms and reading rooms
See also 331.85
Reading and aids

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

Choice of editions
Annotations, indexes, paper, type

Courses of reading

Fiction Novel reading

Reading of young Juvenils

Professorships of books and reading
Lectures. Stimulus and guidance in schools

Use of reference books

Aids to readers
Guidance, printed or personal. See also 028.6 and 025.5

Character of reading in libraries

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 instead of repeating the ideas.

Methods
Exact reference; standard sizes; use of colors; thought study; intercalation or card system (see 023.3); cooperative methods; records vs memory, etc. See 053 Abbreviations and shorthand; 154.1 Mnemonics; 095.4 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

Appliances Laborsaving tools and devices
See also 631. Most literary laborsaving devices go also under 631, Office equipment and methods, and are best kept together there: e.g. all office 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

Clippings Scrapbooks or files
See also Files, 631

Notebooks, notetaking, abstracting, etc.

Indexing Index rerums Printed and patent indexes
For alphabetizing and transliteration see 023.3

Authorship Writing for press Copy and proof
See also 635.25 Proofreading: 055.52 Relations to publishers

029

028
030 General cypkopedias
040 General collected essays
050 General periodicals  Magazines
060 General societies  Transactions

070 Journalism  General newspapers

See also 029.3 Clippings  Clipping bureaus
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, 313 Domestic relations

.14 War censorship

.15 Subservience to special interests
Use by sectarian, partisan 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 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
Business management

Staff and workmen

Offis staff
Manager, stenographers, bookkeepers, clerks, messengers

Workmen
Compositors, foundrymen, pressmen, mechanics, laborers

Hours, shifts

Newspaper strikes

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

Size of page

Methods and appliances

Composition: linotype, monotype, etc.

Stereotyping

Presses

Newspaper cuts: wood, zinc line, halftone

Frequency of issue
Daily, semiweekly, weekly, etc.

Time of issue
Morning, evening, successiv editions, extras

Size of editions, number printed

Distribution Circulation Sale

Direct: subscription Mailing

House delivery

Indirect: newsboys, news agencies, etc.
Crying and peddling in streets and news stands

Advertising methods
Subdivided like 659.1 Advertising

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.

Other means of increasing circulation
Competitions, guessing contests, prizes, fairs, lotteries, expeditions, etc.

Cost of production Expenses

Plant: building and equipment, officis
Duplicate plant. Depreciation of machinery

Supplies: paper, stationery, etc.

Salaries and wages
Space rates. Pay of journalists, pecuniary inducements of vocation.
Traveling expenses

Postage: pound rates, free carriage

Advertising
Necessity and cost of advertising itself to gain circulation and secure advertisement. For methods see 070.336
Sources of income  Receipts
Sales, subscriptions, subsidies. For bribes see 070.16

Advertising department
Including all business pertaining to a journal's advertising columns. For advertising agencies see 659.2

Foreign offices
Subdivided like 940-999; e.g. *N Y herald* office in Paris 070.3944

Editorial management

General
Editing rules: order of departments and articles; style; newspaper diction

Staff: reporters, correspondents
Organization: hours, duties. For pay see 070.344

Editorial departments

News
Sources and channels of news
Telegraf, telephone, wireless, mail, reporters, carrier pigeons, other.
Utilization and precautions; conflicting news

Press bureaus; associated press
Laflan and other news bureaus. For clippings see 039.3 under Literary methods and labor savers

Foren
Home
Local

Leaders, editorials

Local interests
Discussion of local affairs, questions affecting schools, library, public works, etc. For local news department see 070.4317

Special subjects: departments and editors

Financial: stocks, business, shipping, etc.

Household  Home  Women  Children
Cookery
Clothing  Fashions
Hygiene  Care of children
Women's clubs
Children's department: games, puzzles, etc.

Recreation  Sporting

Art, musical and dramatic
Art
Musical
Dramatic

Literary
Poetry
Fiction

Other departments
\[\text{1 Religion; 2 Education; 3 Science; 8 Humor}\]
Voluntary correspondents

Contributors

Special editions

Sunday newspaper. Supplements. For extras see 070.327

Special kinds of journals

Official journals

Religious

For foreign population

In language foreign to country in which published

Propagandist

Professional and technical

Humorous

Literary

Other: amateur, etc.

Form divisions

Periodicals on journalism

Press clubs Conventions Expositions

Study and teaching of journalism College courses

Schools Personal qualifications for journalism

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

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 geographic 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 shelves with ordinary books, and a reference is made as easily to them under 070 as anywhere.
080 Special libraries Polygrafy
090 Book rarities
Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakespeare goes in 822.33 with reference from 099. 090 is mostly used for grouping references to books located elsewhere.

091 Manuscripts Autografs
Photographs of mss go with subject rather than here.
For Diplomatica and Paleografs, 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

100 Philosophy in general
   Works limited to none of the nine divisions
   101 Utility
   102 Compends, Outlines
   103 Dictionaries, Cyclopedia
   104 Essays, lectures, addresses
   105 Periodicals, Philosophic magazines
   106 Societies, Transactions, etc.
   107 Study and teaching of philosophy
   108 Polygraffy, 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
   113 Cosmology
   114 Space
   115 Time
   116 Motion
   117 Matter
   118 Force
   119 Quantity, Number
120 Other metaphysical topics

121 Theory of knowledge  Origin  Limits
122 Causation  Cause and effect
123 Liberty and necessity
   See also 233.7 Freedom; 234.9 Predestination; 159 Will
124 Teleology  Final causes
125 Infinit and finite
126 Consciousness  Personality  See 233.6 Doctrin
127 Unconsciousness  Automata
128 The soul  See 218 Natural theology; 237 Future state
129 Origin of the individual soul
   .1 By special creation  See 213 Creation
   .2 By inheritance  Traduction
      See 375.1 Evolution; 136.3 Mental heredity; 233.3 Spiritual heredity
   .3 Pre-existence
   .4 Transmigration  Palingenesis
   .5 Emanation  See also 147 Pantheism; 218 Natural theology

130 Mind and body  Anthropology

131 Mental physiology and hygiene
   For influence of mind on body, mind cure, etc., see 615.851; see also 613.8
      Hygiene of nervous system

132 Mental derangements.
   .1 Insanity  See 362.2 Asylums; 920.8 Lives; 616.84 Disease
   .2 Idiocy  See 362.3 Asylums; 920.8 Lives; 371.928 Education
   .3 Hypochondria  Melancholy  See 616.852 Hysteria
   .4 Catalepsy  See 616.852 Hysteria
   .5 Ecstatics
   .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

133 Delusions  Witchcraft  Magic
   .1 Apparitions  Ghosts
   .2 Hallucinations
       Divination  Oracles  Second sight  Omens  Predictions
   .3 Witchcraft  Sorcery  See also 372.8 Persecutions
   .4 Astrology  See also 320.1 Astrology
   .5 Palmistry
   .6 Humbugs  Quackery
   .7 Spiritism  Table-tipping, etc.  See also 289.9 Sects

134 Mesmerism  Animal magnetism  Clairvoyance
Sleep Dreams Somnambulism

Mental characteristics

As influenced by sex
See also 131Mental physiology

.1

See also 376.2 Mental capacity of women

.2

" " " physical surroundings
See also 575.3 Evolution: 575.4 Natural history of man

.3

" " " ancestry (Mental heredity)
See also 575.6 Evolution: 233.4 Spiritual heredity: 130.2

Origin of soul: 613.95 Hygiene

.4

" " " race Racial characteristics
See also 578 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 371.7 School hygiene 613.9 Heredity

612.64 Embryology 136.3 Mental heredity

612.65 Growth 613 Hygiene

.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 defective

1 Blind

2 Def

3 Blind-def

.762

Mentally defective

Divided like 133 Mental derangements; e.g. study of idiotic children

136.7622

.763

Morally defective 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
139 Phrenology Mental photgraphs, etc.

140 Philosofic systems

The heads 140-149.9 are for the discussion of the systems as such. The philosofic works of authors of these various schools are clast under 190, not here. From these heads 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 philosophy
    e. g. Kant, see 191.3
143 Intuitionalism
    e. g. Reid, see 192.5; McCosh, see 191.5. See also 136 Intuivist faculty; 172.7 Ethics.
144 Empiricism
    e. g. Descartes, see 194.1; Bacon, see 191.1
145 Sensationalism
    e. g. Locke, see 192.1
146 Materialism Positivism
    e. g. Hobbes; Comte, see 194.8 See also 149.3 Realism
147 Pantheism Monism
    e. g. Spinoza See 212 Natural theology
148 Eclecticism
    e. g. Cousin, see 194.7
149 Other philosofic systems
    See 217 Rationalism, skepticism; 214 Fatalism

    1 Nominalism
    2 Realism See 146 Materialism
    3 Mysticism See 273.2 Heresies; 189.3 Medieval philosophy
    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 391 51

151 Intellect  Capacity for knowing
.1 Genius

152 Sense  Sense perceptions
.1 Vision
.2 Hearing
.3 Smell
.4 Taste
.5 Touch
.6 Muscular sense

153 Understanding
  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 154.6 Reasoning power. For logic of chance, see 359 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 Educational education.
   .1 .2 Comcepts .3 Dictionaries .4 Essays .5 Periodicals
   .6 Societies; Society for ethical culture .7 Study and teaching .8 Polygraphe
   .9 History

171 Theories Philosophy of ethics
   .1 Authority Will of God Christian
   .2 Intuition Moral sentiment
      See also 143 Intuitionalism; 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 330 Political science
   .2 Duties of public officers Official corruption
   .3 Relations to church
      See also 261.7 The church; 322 Church and state; 373 Persecutions
   .4 International ethics Peace and war
      See also 341 International law
Family ethics

Marriage and divorce  See 347.6, Family law

Polygamy and monogamy  See 298 Mormonism

Duties of husbands and wives

Infanticide

Duties of parents

Duties of children

Home life

Masters and servants  See also 647 Servants; 331 Labor

Professional and business ethics

Clergy

Physicians

Lawyers

Merchants  Business men

Speculation

Gambling  See also 175

Compact  Promis

Employers and employd

Ethics of amusements  For amusements, see 790

Public shows and diversions  Rinks, circuses, etc.

Theater  Opera  Private theatricals

Dancing  Balls  Round dances

Games of skill  Billiards, chess, etc.

Games of chance  Cards, dice, etc.

Prize fighting  Animal fighting  Bull, dog, cock, etc.

Racing  Horse  Boat  Pedestrian  Wheel, etc.

Novel reading

Betting  Poolselling  See 174.6

Sexual ethics

Chastity

Celibacy  See also 254 Celibacy of clergy

Continence

Solitary vice

Social evil  See also 358 Parish care of fallen

Adultery

Immoral art

Immoral literature
177 Social ethics

1 Curtesy
See also 395 Etiquette

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 396 Brahmanism; 351 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 613.3 Beverages; 613.8 Nervous system; 331.84 Laboring classes

1 Use of intoxicating drinks Beer drinking Medicinal use

2 Total abstinence vs temperance

3 Social drinking Wine at table Treating

4 Traffic in intoxicating drinks License High license
See also 356.27 Taxation

5 Prohibition
See 329.81 Prohibition party

6 Reformatories Inebriate asylums, etc.
Discussion; for institutions themselves see 363

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; 351.3 Labor of children

3 Cruelty to animals

4 Vivisection
See also 614.22 Vivisection laws

5 Oaths

6 Heroism Bravery Cowards

7 Life Dueling Suicide
See also customs, 394.8 Dueling

8 Pride Covetousness Envy Anger Sloth Jealousy Hate and other vices

9 Humility Liberality Gentleness Patience Diligence Charity Modesty, and other virtues
Ancient Philosophers.

See 921.9, Biography of Ancient Philosophy.

Oriental Philosophers.

2 Egyptian.
5 Persian. Sufism.
6 Chaldaean.
7 Sabeism.
8 Phœnician.
9 Syrian.

Early Greek Philosophers.

2 Italic or Pythagorean. Half Idealistic.
4 Heraclitus.
5 Empedocles.
6 Atomistic.
7 Democritus.
8 Anaxagoras.
9 Other Early Greek.

Sophistic and Socratic Philosophers.

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.

Platonic. Older Academy.

1 Plato. 2 Speusippus. 3 Xenocrates.


1 Aristotle. 2 Theophrastus. 3 Eudemus. 4 Strato.
       See 888.8.
   3 Eclecticism. Cicero. See 875.4.
   4 Alexandrian. Neo-Platonic. Philo. Plotinus, Proclus,
       Porphyry, Iamblichus. See 259.4, Apologetics; 273.3.

187 Epicurean. Epicurus. Lucretius. See also 872.1.

188 Stoic.
   1 Zeno.
   2 Cleanthes.
   3 Chrysippus.
   4 Panaetius.
   5 Posidonius.
   6 Seneca. See 878.5; 879.6.
   7 Epictetus.
   8 Marcus Aurelius.

189 Early Christian and Medieval Philosophers.
   1 Gnosticism. See 273.1, Basilides, Marcion. See 273.2, Manicheism.
   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. Philosophical 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 Philosophical writers given below.

   1 Jonathan Edwards. 1703–1758.
   2 O. A. Brownson. 1803–1876.
   3 Ralph Waldo Emerson. 1803–1882. See 814.36.
   4 Laurens P. Hickock. 1798–1888.
   5 James McCosh. 1811–
   6 Noah Porter. 1811–1892.
   7 Francis Bowen. 1811–1890.
   8 William T. Harris. 1835–
   9 Other American Philosophical Writers.
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 1711-1776 See 824.64 English essays
5 Reid 1710-1796 See 143 Intuitionalism
6 Dugald Stewart 1753-1828
7 John Stuart Mill 1806-1873
8 Spencer 1820-1903
9 Other British philosophic writers

193 German philosophers

1 Leibnitz 1646-1716 See 142 Critical philosophy
2 Kant 1724-1804 See 141 Idealism
3 Fichte 1762-1814
4 Schelling 1775-1854
5 Hegel 1770-1831
6 Schleiermacher 1768-1834
7 Schopenhauer 1788-1860 See 149.6 Pessimism
8 Lotze 1817-1882
9 Other German philosophic writers

194 French philosophers

1 Descartes 1596-1650 See 144 Empiricism
2 Malebranche 1638-1715
3 Condillac 1715-1780
4 Rousseau 1712-1778
5 Diderot 1713-1784
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 in 180 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

203 Dictionaries. Cyclopedias.
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.
208 Polygraphy. Collected works. Extracts, etc. Many collections go under a more specific head; e.g. 240.
209 History of religion.

210 Natural theology

211 Deism and atheism. Scepticism. Infidelity. Rationalism, etc. See 250. Apologetics; 231. God; 272.8, Agnostic heresy; 149.7, Agnosticism.
212 Pantheism. Theosophy. See 147, Pantheism; 139-3, Origin of soul.
213 Creation. See 113, Cosmology. Evolution. See 175, Science.
214 Providence. See 231.5, Doctrines. Theodicy. See 231.8, for Christian view.
215 Religion and science. See 219, Apologetics.
216 Evil. Depravity. See 149-6, Pessimism; 233.5, Sin.
219 Analogies. Correspondences. See also 169, Logic.
220 Bible. General works.

For similar works limited to Old or New Testament, or individual books, see specific head below.

1 Canon. Inspiration. Prophecy.
2 Concordances. Analyses.
3 Dictionaries. Cypopedias.
4 Original texts and early versions. Codices.

Heads for both 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. Italic. Vulgate; 48 Greek. Septuagint.

5 Versions of Bible. Polyglotts. 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.

7 Commentaries on whole Bible, and annotated editions.

For Notes, etc., on Portions of the Bible, see the most specific head in 221-225.

8 Special topics.

Divided like General Classification; e.g. Natural Science of the Bible in 220.05.
9 Biblical Geography and History.

91 Biblical geography, description, etc.; (see 915.60; 915.31. Palestine; 92. Scriptural biography, (see also 932.1; 932.2. Lives of Christ); 93. Antiquities, archaeology; (see also 906. Jewish religion; 913. History of Jews; 914. Chronology; 94. History, see 931. Jews.

221 Old Testament. Texts. Introductions, etc.

Divided like 220. e.g. 221.7. Commentaries on O. T.

222 Historical books.

1 Pentateuch.
2 Joshua.
3 Judges and Ruth.
4 Samuel.
5 Kings.
6 Chronicles.
7 Ezra.
8 Nehemiah.
9 Esther.

223 Poetical books.

1 Job.
2 Psalms.
3 Authorship and Chronology.

4 Special groups.

Messianic; Greater Hallel; Lesser Hallel; Vesper Psalms; Penitential.
5 Liturgical use by Christians.

See 340.08, Anglican Psalter; 415, Hymnology.
6 Commentaries on Psalms.
7 Proverbs.
8 Ecclesiastes.
9 Song of Solomon or Canticles.
Prophetic Books.

1. Isaiah.
2. Jeremiah.
3. Lamentations.
4. Ezekiel.
5. Daniel.
7. Joel.
8. Amos.
9. Other Minor Prophets.
   9.1 Obadiah.
   9.2 Jonah.
   9.3 Micah.
   9.4 Nahum.
   9.5 Habakkuk.
   9.6 Zephaniah.
   9.7 Haggai.
   9.8 Zechariah.
   9.9 Malachi.

New Testament. Texts, Introductions, etc. Divided like 220.

Gospels and Acts.

1. Harmonies.
2. Matthew.
3. Mark.
5. John.
7. Miracles.
8. Parables.
9. Lord's prayer.

Epistles.

1. Romans.
2. Galatians.
3. Ephesians.
4. Philippians.
5. Colossians.
227.8 Other Pauline Epistles.
1 Thessalonians.
2 Thessalonians.
1 Timothy.
2 Timothy.
Titus.
Philemon.
Hebrews.

227.9 Catholic Epistles.
James.
1 Peter.
2 Peter.
1 John.
2 John.
3 John.
Jude.

228 Apocalypse.

229 Apocrypha.
1 Eadras 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.

230 Doctrinal. Dogmatics. Theology.
General Doctrinal Works may be subdivided by churches like 230-239. See 231.3.

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, Omnipresence, Omnipotence.
5 Divine Providence. See 214.
6 Divine Love and Wisdom.
7 Divine Law and Miracles.
8 Theodicy. Vindication of God's justice in permitting evil. See also 214, Nat. theology.
9
232 Christology.
.1 Incarnation. Messiah.
.2 Logos, the Word of God.
.3 Atonement.
.4 Sacrifice.
.5 Resurrection.
.6 Second Coming. See also 289; Second Adventist.
.7 Judgment.
.8 Divine Humanity.
.9 Lives of Christ.

233 Man.
.1 The Fall.
.2 Sin.
.3 Moral and Spiritual Heredity. See Biology, 575.1; 736.3; 129.2.
.4 Accountability.
.5 Natural and Spiritual Body.
.6 Personality. See 226, Metaphysics.
.7 Freedom. See 234, 124; 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 213.7; 123; 159.

236  Eschatology. Last Things.

.1 Death.
.2
.3 Millennium.
.5 Purgatory.
.6 Paradise. Limbus paterum.
.7 Limbo. Limbus Infantis.
.8 Resurrection.
.9 Judgment. See 235,7, Christology.

237  Future State. See 238, Natural theology.

.1 Eternity.
.2 Immortality.
.3 Conditional Immortality.
.4 Heaven.
.5 Hell. Gehenna.
.6 Retribution. Future Punishment.
.7 Eternal Punishment. See 235-1, Universalists.

238  Creeds. Confessions. Covenants. Catechisms

Divided more closely if wished like 238-239; e.g. 238,19, Greek church.

.1 Apostles', Nicene, and Athanasian Creeds.
.2 Creed of Pius IV. (Trent); and later Roman.
.3 Anglican. 39 Articles, A.D. 1551. See 234-037, Latour.
.6-9 Of other Sects. Divided like 236-238.

239  Apologetics. Evidences of Christianity.

If preferred, courses of Apologetic lectures may be kept together: e.g. 239,2, Hampson; 239,3, Bowyer; 239,4, Hulsean; 239,5, Houben; 239,6, Paddock; 239,8, Miscellaneous. More usefully each book is classed under the most specific head that will contain it.

.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; 237,4, Gnostic heresy; 149,7, Agnosticism.
.8 Against the Scientists. For 231, Christian view, see 213.
.9 Other Special Denials.
240 Devotional. Practical.

241 Didactic. For Catechism, see 257.


.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 223.5, Psalms; 224.013, Psalter.

Divided by languages, like 800, and then by churches, like 250, if denomination is clearly marked.


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

.1 Byzantine and Gothic ecclesiology.

See 713, Medieval architecture; 716, 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.


See 764, Public worship.

.7 Evangelistic use of music and art, pictorial and plastic. Della Robbias.


.9

247 Sacred furniture. Vestments. Vessels. Ornaments, etc.


.3 Sculpture and mortuary design.

See 718, Monuments; 718.3, Mortuary buildings; 730, Sculpture.


See 745, Ornamental design; 746, Stained glass.

.5 Fresco and religious painting. See 790, Painting.


.7 Vestments and altar cloths.

.8 Eucharistic vessels. See 265.3, Sacraments.

.9 Ornaments, etc. Crucifix. Banners. Thurible. Incense.

248 Personal religion. Asceticism. See also 273.9, Ascetic heresy.

249 Family devotions. See 264, 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 250. The sermons on specific topics are more useful, like other pamphlets, classified with the topics, e. g. a sermon on family devotions is 269, not 252.4.2 on strikes, to 331.89. The nine heads below are for collections and cross references, but can be used for separate sermons if the classifier prefers.

1 Episcopal charges. Pastoral.
2 Controversial. Polemic.
3 Doctrinal. Dogmatic. See also 250, Dogmatism.
4 Practical. Devotional.
5 Academic. Educational. See also 375.7, Baccalaureates.
6 Political. Public occasions and duties.
7 Consecration. Ordination.

See also 255.4, Ordination; 265.9, Consecration; 266.10, Polity.
8 Expository.
The memorial of a special church goes with that church in 251. See 924, Biography.

253 Pastoral visitations, evangelistic.
254 Clerical 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 256 and 258.

257 Parochial schools. Libraries, etc.

See 377.5, Education; 377.8, Parish libraries.

258 Parish care of sick, fallen, etc.

See 265.8, Ministry of sick; 176.1, Social evil.

259 Other ministrations and work.

260 Church. Institutions and work.

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 257.8, Education.
6 Church and civilization.
7 Church and civil government. See 178.3, State ethics; 328, Church and state.
8 National churches vs. organic unity.
9
262 Ecclesiastical polity.

1 Ministry.
11 Apostolic succession.
12 Episcopate.
15 Deacon. Deaconess. Evangelist.
17 Episcopal.
18 Presbyterian.
19 Congregational.

2 Parish. Congregation. See 230 for Parochial work.
3 See. Diocese. Cathedral system.
5 General or ecumenical council. See also 250-2.
6 Canons. Decrees.
7 Traditions.
8 Authority. Church and ministerial. Private judgment.
9 Discipline. Courts. Trials. For Canon law see 248.

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 234-4, Library rules.
8 Sunday laws.

264 Public worship. Divine service. Ritual

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

07 Anglican and American P. E. ritual.
051 Calendar. Festivals and fasts. See also 249-6, Chronology.
053 Lectionary and rubrics.
054 Morning prayer. Litany.
055 Sacraments, ordinances, and services. See also 265, Sacraments.
056 Collects, epistles and gospels.
057 Ordinal. Articles. Creeds. See also 238-3, Creeds, doctrines.
058 Psalter and other. See 233-5, Psalms; 245, Hymnology.
059 History of successive prayer books.
See also 226-247, Private and Family Prayer.

See also 228, Sacred Music; 226, 226.1, Ecclesiology.

Scripture Readings.

Antiphonal or Responsive Readings.

Confessions of Faith. Creeds. See also 228, Creeds.

Sermons. Exhortations. Instructions.
See also 221 and 222, Preaching and Sermons.

Prayer and Conference Meetings.

Class and Covenant Meetings. Love Feasts.

Sacramentals. See also 235, Sacramentals.

Sacraments. Ordinances.

Baptism.

Confirmation. Church Fellowship.


Holy Orders. Ordination. See also 262.16, Ministry; 252.7, Sacraments.

Marriage. See 223, Ethos of the Family.


Extreme Unction. Viaticum.


Consecration. Dedication. See 262.16, Ordination; 252.7, Sacraments.

Missions. Home and Foreign.
Subdivided by Churches, like 220. See also 227, Missionary schools.
Missions in special countries or places, including those of all churches, so under the geographically divided Religious History, 271-279, with references under 220.

Associations. General societies demanding of members active personal work. For local societies see 220. For Bible, tract, and similar general societies see 220.

Religious societies of both men and women.

U. S. Christian commission.

Salvation army.

Religious societies of men.
For Y. M. C. A. see 227.5; missionary societies, 226; ministerial education societies, 227.

Bible societies, 226.

17th century or earlier. May be divided by countries like 940-99.

18th century.

19th century; inter- and undenominational.

In educational institutions. Divided like 940-99. If preferred, cancel 232 and use all together in 249-9. For work of Y. M. C. A. see 227.301.

"Nasmith" societies.

Young men's Christian unions; i. e. not "evangelical," etc.

Others. Divided like 940-99.

19th century; denominational.


Others. Divided like 940-99.

Young Men's Christian Associations.
Active membership confined to members of "evangelical" churches.
To shorten the number, X may be used for 227.3 throughout; i. e. X 29 would mean "Work in small towns."
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.

Buildings. See library buildings o2.
.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 o2.
.326 Administration and special rooms. Boys' rooms.
.327 Physical culture rooms.
.328 Lighting, heating, and ventilation.
.329 Fixtures, furniture, and fittings.

Organization.
.331 Incorporation. Constitution and by-laws.
.332 Branches and sub-organizations. 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. Executive or Corresponding secretary.

Standing committees.
   1. Importance; enlistment and composition.
   2. Principles and methods of organization.
   3. Names and duties. See also Department work 267.35.

Membership.
   1. Membership committee.
   2. Classes of membership.
   3. Securing and retaining members.
   4. Development of active members.
   5. Associate membership and its relations.
   For members' meeting see Social work, 267.36.

Salaried officers. Duties, qualifications, training.
.341 General secretary and assistants. Including international and state secretaries. See also 267.314-316.
   1. Office 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 his fellow secretaries.
   4. Personal hints: 41. Considering a call and beginning work; 42. Spiritual and intellectual growth and health; 43. Office work, system, and economy; 44. Personal appearance and conversation; 45. Ladies' company; 46. "Secretarialism."
Librarian and assistants. May be divided like 267.347. See also Library administration, 035 and 267.352.

Physical director and assistants. May be divided like 267.341. See also 267.351 and 045.7.

Other salaried officers.

Training; need and methods, demand and supply.

Training schools.

Training by apprenticeship.

Institutes. \{ Methods only; for reports see 267.49.

Conferences. \}

Local work by departments.

Business department.

1. Finance committee.
2. Annual budget.
3. Endowments and other sources of income.
4. Solicitation, collection and disbursement.
6. Debt, taxes, &c.
7. Records and statistics.
8. Advertising, including anniversaries and parlor conferences.
9. Printed matter. Including bulletin, prospectus, etc.

Religious department.

1. Committees.
2. Individual Bible study. Methods and helps.
3. Bible classes.
4. Training classes. Personal work.
5. Bible readings. Song services.
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.

Educational department.

1. Committees.
2. Library. See 267.342 and 045.
3. Reading room.
4. Classes.
5. Lectures and talks.
6. Literary societies.

Social department.

1. Committees.
2. Reception committee.
3. Social rooms and fittings. See 267.32.
6. Amusements. Including games of skill. See 42.90 794.
Physical department.
1. Committees.
2. Aim and benefit of department. For Physical director see 669.443 Equipment, methods, etc., 643.7.

Information, relief, etc., department.
1. Boarding house bureaus.
2. Employment bureau.
3. Savings bureau.
4. Visitation of sick.
5. Destitute young men.

Boys’ department.
1. Committees.
2. Religious work.
3. Educational work.
4. Social work.
5. Physical work.
6. Information, relief, etc.

Janitor’s department. Building; care, cleaning, safety. Police.

Work among special classes.
V. M. C. A. only; other religious societies of men go in 267.2.

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.

Railroad employees.
1. History and methods in general.
2. International reports.

Commercial travelers.
Foreign-speaking. Divided like 400; e.g. 3, German, 4, French, 5, Italian, etc.
Colored men.
American Indians.
Sailors.
Other. Policemen, firemen, fishermen, lumbermen, mutes, etc.

History, reports, periodicals, etc. For methods see 267.314–319.

International history.

International reports, etc. Reports, etc., of international college and railroad workers go in 267.361–362.

267.4 Religious societies of women.

19th century; inter- and undenominational

Women's Christian associations.

Divided like 267.3. To shorten the number, W may be used for 267.43 throughout; e.g., W1 would mean "Objects, field and extension."

King's daughters.

19th century; denominational. Divided like 268-269.

Young Women's Christian Associations. Active membership confined to members of "evangelical" churches.

Divided like 267.3-390.

To shorten the number Y may be used for 267.5; e.g., Y3, Organization, instead of 267.33.

Religious societies of young people. For Sunday schools see 269.

Inter- and undenominational.

Young people's society of Christian endeavor.

1, Reports, etc.
2, Periodicals.

Denominational. Divided like 268-269.

Religious societies of boys. Not Y. M. C. A. Divided like 269.4.


268 Sunday Schools.

269 Revivals. Retreats. Parish Missions.

270 Religious History.

Ancient Period. To Conversion of Germans.

See 261-281.4, for collected works of early theological 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, 272-279; e.g., English reformation, 274.2.

Apostolic. Nativity to Constantine.


The Greek Church acknowledges these seven Councils as really Æcumenical. Anglicans generally recognize only the first six. See also 269.1, Policy.

First of Nice, A. D. 325.
First of Constantinople, 381.
First of Ephesus, 431.
Chalcedon, 451.
Second of Constantinople, 553.
Third of Constantinople, 681.
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.


.5 Later Medieval. Renaissance. A. D. 1200–1517.

Modern Period. Reformation to present.
From A. D. 1533, Theology in Europe is in three types, viz.: Roman, Lutheran, and Reformed or Calvinistic.

.6 Reformation. Counter-Reformation. A. D. 1517–1648.

Union of Church and State. Deism. Materialism.

.8 Modern. Rationalistic. A. D. 1789–

271 Monastic Orders.

.1 Benedictines. Founded A. D. 529.

.2 Dominicans. " " 1170.

.3 Franciscans. " " 1182.

.4 Augustinians. " " 1256.

.5 Jesuits. " " 1540.

.6 Passionists. 1720. Redemptorists. 1732.

.7 Lesser Roman Orders

.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 Anglican Brotherhoods.

.9 Sisterhoods.


.93 Ladies of the Sacred Heart. Jesuit " " 1800.

.94 Sœurs de bon Secours. Nurses.

.95 Little Sisters of the Poor.

.96 Contemplative. Cloistered Nuns.

.97 Other Roman Sisterhoods.

.971 Carmelites.

.972 Second of St. Dominick.

.973 Franciscans.

.974 Ursulines. A. D. 1537.

.975 Of the Visitation. " 1610.


.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 to 4th Century.

.2 Heretics, by Inquisition or Holy Office. Since 1470.

.3 Waldenses and Albigenese. 11th and 12th Cent. By R.Ch.
See also 284-4, Protestant sects.

See also 284-5, Protestant sects.

.5 Molinists and Quietists. Close of 16th Century to destruction of Port Royal, A.D. 1709. By Roman Catholics.
See also 273-7, Heresies.


See also 133-4, Witchcraft.

.9 Other Persecutions.

273 Heresies.

For the history of special Doctrines see 230–239, Doctrinal Theology.

.1 Gnostic.—Reaction of Pantheism and Heathen Philosophy on Christianity. 1st three Centuries.
See also 193-1, Gnostic philosophy; 186-4, Neo-Platonism; 239-4, Apologetics.

See 149-3, Mysticism; 248, Asceticism.

.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.—Denying Original Sin and Supernatural Grace. 5th Century.

.6 Antinomian.—Denying force of Law, under Gospel Dispensation. 16th Century.

.7 Molinist and Jansenist. Pietists. Port Royal.—Augustine’s doctrine of Grace, vs. the Roman doctrine of Good Works. A.D. 1580–1700.

.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 to 279 General Religious History. By Countries.

274-279 is divided geographically like 940-999.
Christian Churches and Sects.

281 Primitive and Oriental Churches.
     See also 270.1 to 270.7, 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 239-9, Apocryphal books.
 .2 Primitive 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 Græco-Russian or Holy Orthodox Church.
     The Great Schism, Mutual Ex-communication, 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 geographically like 940-999.

283 Anglican and American P. E. Church.
     Divided geographically, when needed, like 940-999; e. g. the Anglican Church in Australia is 283.94; India, 283.34.

284 Continental Protestant Sects. Protestantism.
     .1 Lutheran. Reformed. See also 285.7, Reformed church in America.
     .2 Calvinist; Zwinglian. See 285, and 286.1.
     .3 Hussites. Anabaptists. Leyden. See 286.1.
     .4 Albigenses. Waldenses. Vaudois. See 273.3.
     .5 Huguenots. See 272.4.
     .6 Moravian.
     .7 Scandinavian. Swedish.
     .8 Old Catholic.
     Here are classed those denying Papal Infallibility, or for other cause cut off from Rome, though Catholic in other respects.
     .9 Other.

     .1 Presbyterian Church in America.
     .2 Presbyterian Church in Great Britain.
     .3 Cumberland Presbyterian.
     .4 United Presbyterian.
     .5 Reformed Presbyterian
     .6 Minor Presbyterian Sects.
     .7 Reformed (Dutch) Church in America. e. g. 285.27471, 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 Primitive Methodist
   .5 Primitive Wesleyan
   .6 Methodist Episcopal
   .7 Protestant Wesleyan
   .8 African Methodist
   .9 Minor Methodist Sects
288 Unitarian. See 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 Quakers. Friends. Hicksites
   .7 Mennonite
   .8 Shaker. Mystic
   .9 Other Minor Christian Sects
291 Comparative and General Mythology
292 Greek and Roman Mythology
293 Teutonic and Northern Mythology
294 Brahmanism. Buddhism. For other Indic Religions, see 299-280
   See also 891-2, Sanskrit literature; 177-3, Caste
295 Parseeism. Zend Avesta. For other Iranian Religions, see 299-39
   See also 891-2, Zend literature
296 Judaism. For other Semitic Religions, see 299-8
297 Mohammedanism
298 Mormonism. See 173-2, Polygamy.
299 Minor Non-Christian Religions.
   Subdivided ethnically like 491-495; e. g. Egyptian religion, 299-31; Afghan religion, 299-38
Sociology.

300 Sociology in General.

301 Philosophy. Theories.

302 Compendes, Outlines.

303 Dictionaries, Cyclopedia, etc.

304 Essays, Lectures, Addresses.

305 Periodicals, Magazines, Reviews.

306 Societies, Transactions, Reports.

307 Education, Teaching, Study, etc. See also 309.

308 Polygraphy, Collected Works, Extracts, etc.

310 Statistics.


313 Special Topics.

314 to 319 General Statistics. Divided geographically like 340-999.

The Statistics of any special matter are put with the subject, e.g. of Domestic Animals in 65, of Short Hand in 651, of French Novels in 652, of Theaters in 722, etc. Statistics too general to be included in any topic are divided by countries. The Statistics of New York City would be 317.471, but the statistics of Medicine in New York would be put with 610, Medicine, i.e., the Topic outranks the Locality.
320 Political science.
   .1, Theory of the state; .2, Compendia, statecraft; .3, Dictionaries; .4, Essays; .5, Periodicals
   .6, Societies; .7, Education; .8, Polygraphy; .9, History of political science, divided
   like 930-999.

321 Form of state.
   This is for discussion of form of state, what should be; for what is, see 343.
   Constitutional law and 353-354. Administration.
   .1 Family. Patriarchal age.
   .3 Feudalism.
   .4 Democracy. Pure; e.g. Athens, Town meeting.
   .5 Aristocracy. E.g. Italian republics. Medieval German cities.
   .6 Absolute monarchy.
   .7 Constitutional monarchy.
   .8 Republic. Modern democracy, delegated powers.

322 Church and state. See also 172.5, State ethics; 206.7, The church.

323 Internal or domestic relations.
   Free speech, Liberty of the press; see also 670, Newspapers; 172.7, Morals of the press.

324 Suffrage.
   Race, etc. See also 355-1, Naturalization.
   .2 Forms of suffrage. Universal. Limited. Minority representation. Class system. Cumulative, etc.
   .3 Woman suffrage. See also 396.5, Woman; 399.85, Woman suffrage party.
   .4-9 In special countries. Divided like 940-999.

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 Anti-slavery documents.
   .5 " periodicals.
   .6 " societies.
   .7 Pro-slavery.
   .8 Emancipation and freedom.
   .9 History of slavery. Divided geographically like 930-999.
   .92 Biography of slaves.

327 Foreign relations. Divided geographically like 930-999
Legislative bodies and annals.

1 Parliamentary law.

2

3 Of special countries.
   Divided by countries like 940-999, and under each, works may be divided: .1, Journals; .2, Debates; .3, Abstracts; .4, Documents; .5, Rules; .6, Legislative manumissions; .7 History of bodies.

Political parties. Party conventions.

329 329.01, 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.
   .1, Prohibition, see also 178.5, Ethics; .2, Greenback, see also 275.5, Paper money; .3, Woman suffrage, see also 554.3, Suffrage; .4, People's; .5, Labor, see also 554.6, Laboring classes.

9 Parties in other countries. Divided geographically like 940-999.

Political economy.

330 1 Theories; .2, Compendia; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and teaching; .8, Polygraphy; .9, History.

Capital. Labor and wages.

331 1 Relations of capital to labor.


3 Labor of children. See also 179.3, Cruelty to children.

4 Labor of women. See also 356.5, Woman.

5 Convict labor. Prison contracts. See also 359, Prisons.

6 Pauper labor. Cheap foreign labor. Chinese. See also 359, Pauperism; 359.5, Asylums.

7 Skilled and unskilled labor.

8 Laboring classes. See also 359.85, Labor party.

9 Hours of labor.

10 Places of labor. Dangers.
   See also 613.5, Hygiene; 623.5, Mining; 614.5, Protection of life.

11 Food. Clothes. Shelter. See also 640, Domestic economy.

12 Morals and habits. Thrift. Temperance. Amusements. Temptations. See also 170, Ethics; 790, Amusements; 263.5, Sunday.

13 Helps. Lectures. Libraries. Reading-rooms, etc.
   See also 374.5, Popular lectures; 420, Libraries; 265.5, Sunday.

14 Training. Apprenticeship.

15 Organization of labor.

16 Trade unions and other labor societies. See also 338.6, Guilds.

17 Strikes.

1. Banks and Banking.
   .11 National; .12 State; .13 Private; .14 Trust companies; .15 Foreign.
   See also 334.2, Co-operative banks.

2. Savings Banks.

3. Loan Institutes.
   .31 Credit Institutes.
   .32 Building Associations. See 334.6, Co-operation.
   .33 Monts de Piété. Governmental.
   .34 Pawn Shops. Private.

   .42 Single and Double Standard.
   .43 International Standards.
   .44 Monetary Congresses.
   .45 Comparative Value of Moneys.
   .46 Mints.
   .47 Coinage Laws.
   .48 History of Mints and Coinage. Divided geographically like 940-999.


7. Credit. Credit System.

8. Interest and Usury. See also 356.31, Public securities.


Land. Ownership, Rights, and Rent.

See 339, Production; and 630, Agriculture.

1. State Ownership.

2. Community Ownership.

3. Private Ownership.


5. Rent of Land for Cultivation.

6. " " Building.

7. Forests.


Co-operation.

1. Building Societies. Loans. Organization. See also 332.32.

2. Co-operative Banks. See also 337. Banks.

3. " Insurance Societies. See also 358, Insurance.

4. " Housekeeping. See also 640, Domestic economy.


7. Friendly Societies.

8. Burial Societies.
335  Socialism and Communism.
   .1  English Socialism.
   .2  Saint Simonism.
   .3  Fourierism.
   .4  Communism.
   .5  German Socialism. Social Democracy.
   .6  State Socialism. Socialism of the Chair.
   .7  Christian Socialism.
   .8  Socialistic Communities.
      Divided by countries like 336-337

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 337, Education.
      .19  State Monopolies. e.g. French State Monopoly of Tobacco Trade.
      See also 337, Monopolies.
   .2  Taxation.
      .21  Direct.
      .22  Real Estate
      .23  Personal.
      .24  Income.
      .25  Poll.
      .26  Customs. Specific or Ad Valorem. See 337, Protection.
      .28  Local Taxes. See also 378.13, School funds.
      .29  Assessment and Collection of Taxes.
   .3  Loans. Public Securities.
      .31  Interest-bearing Securities. See also 332.8, Interest.
      .32  Floating Debt.
      .33  Sinking Fund.
      .34  Public Credit.
      .35  Annuities.
      .36  Repudiation.
   .4-9  Finance of Special Countries. Divided geographically like 336-337

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.

.1 Agricultural products.
.2 Mining products. See also 333.41, Coinage metals.
.3 Water Fish, ice, etc.
.4 Manufactured products. Machinery in industry.
.5 Prices.
.6 Guilds. See also 331.88, Trades unions.
.7 Corporate industries.
.8 Monopolies. See also 336.19, State monopolies.
.9 Industrial legislation. Divided geographically like 940-999.

339 Consumption of wealth. Pauperism.
See also 379.32, Illiteracy; 362.5, Pauper asylums; 331.6 Pauper labor.

340 Law.

General works.
Most periodicals belong in Private law, 347.09.
.1 Philosophy. Theories. Law of nature.
.2
.3 Antiquities. Torture. Trial by ordeal. Duel, etc.
.4 Trial by jury.
.5 Comparative legislation.
.6 Medical jurisprudence. See also 614.23, Expert testimony.
.7 Education. Law school. Office training.
.8 Polygraphy. Collections.
.9 Legal anecdotes and miscellany.

Public law.

341 International law.

.01 Philosophy; .03, Compenda, etc., like 300.
.1 International congresses.
Of diplomatic agents for settling international relations. Congresses 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.
.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 constitu-
tion; 2, Conventions; 3, Systems; 4, Essays; 8, Polygraphy; 9, History.
For Administrative law, see 350.

343 Criminal law.

.1 Criminal trials.
.2 Punishments.
.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  U. S. Statutes and Cases.

Divide each of the sections 1-5, using 1. U. S.; 2. Individual states arranged alphabetically; e.g. Statutes at large of U. S., 345-11; Acts and resolves 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.; .49, 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.


.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, 346. The divisions 1-8 may be disregarded and all English law text-books arranged in one alphabet by authors. An elaborate division, similar to Medicine, will be published after further revision.

1  Persons. Legal Capacity.

2  Realty.

3  Chattels. Movable.

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.


.97 Organization of Courts.

.98 Jurisdictions.

.99 History of Special Courts.

348  Canon Law.

349  Foreign Law.

Divided like 340-990, and under each modern state divided like 349 with decimals .71 to .79 used for Treatises like 347. e.g. 349-404 is French Law of Torts. 349-66 is French Code. Roman Law is divided:

.37 Roman Law.

.371 Philosophy; .372, Compendia; .373, Dictionaries; .374, Essays; .375, Periodicals; .376, Societies; .377, Education; .378, Polygraphy; .379, History.


.372 Justinian.

.373 History and Criticism of Sources.

.374 Institutes. Ancient Roman Law.

.375 Pandects. Modern.

.477 Treatises on Special Topics. Divided like 347.
Administration.
Including Military science; 1, Theory; 2, Compendia; 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 classed 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 348, Constitutional law and history.

Administration of Central Government.

1. Organization of Civil Service.

2. Civil Lists.

3. Examination.


5. Pensions.


7. Subjects of Administrative Action.
   See also 353, United States; 354, Foreign states.

   See 316, Finance, Public property, Taxation.


10. Internal Affairs.
    See also 323, Domestic relations.


12. Public Safety and Order.
    See also 332.2, Police; 355, Prisons, etc.
    1. Press.
    2. Reunion and Association.
    3. Weapons.

13. Vice and Good Manners.
    1. Liquor Regulation. See 178, Temperance.
    2. Public Gaming. See 174.6, Ethics.
    3. Public Begging, etc. See 330, Pauperism.
    4. Prostitution. See 176.5, Ethics.

    See 352.4, Boards of health; 614, Public health, etc.

    2. Fires. See 614.84.
Promotion of Public Welfare.

Means of Communication.

See 350, Commerce, Communication.
1, Highways. See 386; 352-7, Local government.
2, Railways. See 385.
3, Waterways. See 380; 387.
4, Ferries.
5, Bridges. See 352-7, Local government.
6, Post Office. See 383.
7, Telegraphs. See 384.

Trade and Industry.

1, Weights and Measures. See 389, Commerce.
2, Coinage and Money. See 332, Banks, Money.
3, Landed Industry.
   Agriculture. See 630, Useful arts; 338-1, Production.
   Forests. See 634-9, Agriculture; 332-7, Land.
   Mines. See 627, Mining; 338-3, Production; 333-3, Land.
4, Commercial and Manufacturing Industry.
   See 380, Commerce; 338, Production.
5, Institutions of Credit. See 333, Banks, Credit.
   Savings Banks. See 332-2.
   Mutual Benefit Societies. See 334, Cooperation.
   Insurance. See 368; 334-3, Cooperative insurance.
   Monts de piété. See 332-3.

Labor. See 331, Capital, Labor, Wages.

Public Charity.

See 339, Pauperism; 370, Associations and Institutions.

Education and Worship.

1, Public Education. See 379, Education.
2, Public Libraries. See 337-4, Library economy.
3, Art Museums. See 708, Art.
7, Worship. See 342, Church and State.

Military and Naval. See 355-359, Army and Navy.

Justice. See 340, Law.

Foreign Affairs. See 341, International law; 357, Politics.

Control over the Administration.

Administrative Control.

By superior officers.

Disciplinary Power.

Power of removal. See also 351-4, Tenure of office.

Supervision.

Power to annul or amend specific acts.

Judicial Control.

1, Ordinary Courts. See 347-3, Law of civil.
5, Criminal Courts. See 343, Criminal law.

Administrative Courts.

Parliamentary Control.

Petitions and Addresses.

Investigations.

Impeachment.

General Questions of Municipal Administration.
- Growth and importance of cities.
- Cities and state control.
- City as a juristic person—a corporation.
  See also 347-11, Law of corporations.
- City organization, municipal elections.
- Municipal civil service.

Local Administration of Special Countries and Cities.


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

1. County.
2. Municipal borough.
3. Parish.
6. School districts.  See 379, Education.

Local Government in Germany.

Special cities like 352-042.

1. Province.  Landtag, Provincial Committee, Director.
2. Circle, Circle Diet, Circle Committee, Landrat.
3. Commune.
4. Towns.
5. Township.

Local Government in France.

Special cities like 352-042.

1. Department.
2. General council.
3. Departmental commission.
4. Prefect.
5. Arrondissement.
7. Mayor.
8. Municipal council.

Finances.  City Property and Local Taxation.

See also 320, Finance.

Police.

Fire Department.  See also 621-08, Fire engines; 614-84, Fires.

Public Health.  Board of Health.  See also 614, Medicine.

Public Buildings and Works.

Water and Sewerage Works.  See also 628, Sanitary engineering.


Licenses.  Hack, Huckster, Entertainment, etc.

Other Topics.
353 United States and state government

See also 342.73 Constitutional law and history
.01 Administrativ centralisation
.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 Postoffice 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. 355.97535

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 355.97476

354 Organization of central government Foren states

See also 342 Constitutional law and history

Divided geographically by countries like 930-999. Under each country the U. S. divisions, 1 State, 2 Treasury, 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 centralisation
.02 Separation of powers
.03 Monarch
.04 Privy council
.05 Cabinet

.43 Administration of Germany Central government
.01 Administrativ centralisation
.02 Separation of powers
.03 Empire
.04 Bunderat
.05 Emperor
.06 Ministry
.07 States Monarchs
.08 Landtag Ministers Council of state
.09 Free cities

.44 Administration of France Central government
.01 Administrativ centralisation
.02 Separation of powers
.03 President
.04 Ministers
.05 Council of state
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 355.6; for history of regiments, see 355.9 and 4 under special wars in 973. See also Military engineering

.01 Theory .02 Compendia .03 Dictionaries .04 Essays .05 Periodicals
.06 Societies .07 Education .08 Polygraphy .09 History

.1 Military life

Including honor, honors and insignia, and standards

.11 Servis periods and retirement

.14 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 measures

.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 classified 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 623.1

.45 National defense

.47 Military geography

Divided like 930-999

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

.48 Wars, campaigns, battles, military exploits

Better class with wars to which they belong in 930-999
Servis
Garrison and field servis, mobilisation; instruction of troops and subaltern grades; maneuvers

Grand maneuvers Instruction camps

Military administration
Class here only what concerns the workings of administrativ servises. For personnel and organisation of these servises see 356.3

Military establishments
Organization and servis
See also 359 Naval establishments
623.63 Military establishments (military engineering) 725.12 Architecture of military buildings

Military equipment and supplies
Clothing Camp outfit
Small arms and ammunition
Administrativ questions: working and reserv supply; storage, issue, etc.
For mechanism and relativ efficiency of different kinds see 623.4
Wagons Harness Transportation outfit
Pioneering tools
Other tools Instruments

Infantry
Organization
Light infantry, mounted infantry, cyclist infantry
Special colonial infantry
Organizations eventually subject to mobilization
Volunteer corps
Irregular troops
'Cores francs' existing only during war
Special infantry troops
Sharpshooters, etc.

Staff and special servises
Administrativ staff and servises
Personnel and organization

Cavalry Mounted servises
Cavalry proper
Remount and training servises
Army train

Artillery, engineers and other technical servises
For ordnance, gunnery, etc. see 623 Military engineering

Artillery
Engineers
Other technical servises

Naval science
Divided by .01-.09 like 355. See 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 .g is used as in 361.g, for
grouping by location; e.g. Clubs of London are 367.942.

361 Charitable

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 infirm-
aries Lying-in hospitals Dispensaries

.2 Insane

See also 133.1 Insanity

.3 Idiotic

See also 133.2 Idiocy; 136.7623 Child study; 371.922 Education

.4 Blind Def Dumb

See also 371.91 Education

.5 Paupers

See also 339 Pauperism; 331.6 Pauper labor

.6 Aged

.7 Children Orphans Foundlings

See also ethics, 179.4 Cruelty

.8 Other

.9 Special countries

Divided like 930-999; e.g. 367.943 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 Cooperative insurance

.1 Fire

.2 Marine

.3 Life

.31 Annuities; see also 330.35 Public annuities; 519.5 Probabilities

.4 Accident

.5 Animal and crop
368.6 Plate glass
.7 Boiler
.8 Credit and bonds  Land titles
.91 Government control  Commissioners

.93-99 divided geographically like 930-999; e.g. Insurance in New York
(including state reports, etc.) is 368.9747

369 Other associations and institutions

.1 Hereditary and patriotic societies (American)

.11 General associations

.111 Regular army and navy union
.112 Society of veterans of the regular army and navy
.113 Military and naval order of the United States
.114 Medal of honor legion
.115 Military order of foreign wars of the United States
.116 Order of the old guard
  Incorporated 31 Jan. 1896; organized 15 Oct. 1896
.117 Naval order of the United States
.118 Society of American wars

.12 Colonial societies

.121 Society of colonial wars
.122 Society of colonial dames of America
  A New York society with chapters in other states; known also merely
  as Colonial dames of America
.123 National society of colonial dames of America
  A federation of separately incorporated societies in about 40 different
  states
.124 Society of the Mayflower descendants
.125 Order of the founders and patriots of America
.126 Colonial order of the acorn
  " society of Pennsylvania
.128 " daughters of the 17th century

.13 Revolutionary societies

.131 Society of the Cincinnati
.132 Society of the daughters of the Cincinnati
.133 Sons of the American revolution
.134 Sons of the revolution
.135 Daughters of the American revolution
.136 Daughters of the revolution
.137 Children of the American revolution

.138
.139
Civil war societies, Union

G. A. R. (Grand army of the republic)
Military order of the Loyal legion
Society of loyal volunteers
Union veterans union
Union prisoners of war association
Society of the army and navy of the Gulf
National association of naval veterans

Woman's relief corps
Woman's veteran relief union

Society of the sons of veterans, U. S. army

Civil war associations, Confederate

Confederate survivors association
Confederate veterans association
United sons of confederate veterans
Confederate veterans
Daughters of the confederacy

Spanish war veterans
Society of the army of Santiago de Cuba
Naval and military order of the Spanish American war
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 Dictionaries Cyclopedias

.3 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

.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 Polygrapy
.81 Collected writings of a single author
    If not limited to a definite 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, practice and description of conditions. See also
    130.791 The child among uncivilized and semicivilized peoples
.92 Educational biography
    Preferably class in 933.7
.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 371.12
   .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 stepping stone 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 370.15
   .21 Admission Enrolment Matriculation
   For college entrance requirements see 371.114. Standards of individual schools are clast with the school
   .211
   .212 Grammar or intermediate school admission standards
   Including standards of German bürger schulen
   .213 High school standards
   Including standards of German gymnasium, 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; 379.15 Tuition fees of nonresident 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, 571.712
   .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
Examinations: oral, written  Cramming
See also 428.9  Language
For competitive examinations see 371.53
Promotions  Degrading
Other topics
Graduation  Diplomas
May be subdivided like 371.21  See also 378.2  College degrees
Methods of instruction
See also special subjects; e.g. Science study, 507
Rote or concert teaching
Text books  Recitations
Use of textbooks. Textbooks themselves are class with the subjects treated
Lectures  Oral instruction
Developing or inductive method
Art of questioning  Catechetical method
Topical method
Correlation
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
Seminary method
Laboratory work
Other
Floating schools or colleges
Combining travel and shipboard instruction
Trips, excursions, visits
Individual instruction  Batavia system
By regular teacher or tutor, at home or at school  See also 373.1
Private instruction
Small classes
See also 371.47  Quincy system
Systems of education
See Frobel's system see 372.2  Kindergarten
Bell and Lancaster, or monitorial system
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 375.1-9  For individual schools see 607 or 378.99
Educational value
In elementary schools
In secondary schools
In special schools
History and development
Military organization  Military instruction
Pestalozzian
Classification of Pestalozzi's educational writings
Jacotot
Quincy system
Government  Disciplin  Authority
Rules
Attendance  Truancy  Tardiness  Absences
See also 370.33 Compulsory education
Rewards  Prizes  Favors  Approbation
Interschool literary contests
Competitive examinations. For interschool and intercollegiate debates see 374.245 For interschool athletics see 371.75
Punishment  Disciplinary penalties
Limits of school jurisdiction. Disciplin of consequences
Corporal punishment
Other punishments
Confinement; tasks; expulsion; suspension; discharge
Personnel responsible for disciplin  Monitors
Moral government  Alcott system
Student self government  College systems
School city  Ray system
School premises and equipment
Grounds  Site
School playgrounds
Buildings
Requirements peculiar to schools. See also 737 Architecture of educational institutions. The following subdivisions apply to both special rooms and separate buildings
Study, lecture and assembly rooms
Library and museums
Art, science, etc. See also 029 Library buildings; 371.04 Function of school libraries; 021.3 Relation of libraries and schools; 027.75 Reports of college and school libraries
Laboratories  Observatory  Machine shop
See also 548.1 Chemic laboratories; 522.1 Observatories 371.66 Scientific apparatus and supplies
Gymnasium
See also 725.85
Other special rooms or buildings
Dormitories, clubs, infirmaries, Y.M.C.A. and Y.W.C.A.
Sanitation  Lavatories
Lighting
Heating and ventilation
Accessories
Elevators, lifts, telephones, 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 731.6 Architectural construction;
    022.46 Library buildings
    024 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; for
    relation to other school rooms and buildings see 371.642. 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 wish like 010-999: e.g. 371.652 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 wish like 010-999; e.g. 371.6791 Globes, maps, etc.
.7 School hygiene
.71 Health of students Overstudy Fatigue
.711 Sanitary conditions and inspection
    Board of health. For sanitary engineer’s side see 371.626
.712 Medical inspection
    For personal conditions affecting health and intellectual progress;
    e.g. cleanliness, contagious diseases, nervous disorders, defective
    eyes, ears or teeth. Closing schools on account of epidemic or
    contagious diseases
Unhygienic postures
See also 371.632  Furniture (ill designed desks and seats)

School meals
Discussion. Administrative problems: space, cost, whether wholly or partly free, etc. For management of lunch room, suitable food, etc. see 642.48

Care of eyes  Effect of study

Care of body  Gymnastics  Calisthenics
For systems of gymnastics or physical training, and books of exercises see 613.71

Educational influence of physical training
Gymnastics  Calisthenics

In elementary schools
In secondary schools
In colleges
In special schools
In girls' schools

Military drill
For military organisation of school see 371.43

Fencing
Swimming  Bathing
Riding
Walking  School promenades

Recreations  Games, etc.  Athletics  Diversions

Championship games  Boat races  Interschool athletics
See also 175.7 Ethics; 613.73 Hygiene; 796 Outdoor sports

Other special topics

Student life and customs
Various aspects of student life and student activities outside regular courses of study
See also 784.6 College songs; 378.29 College costumes

Student periodicals
Discussion here. Periodicals themselves preferably with their schools

Student honor
Cribbing  Cheating  Keys  Ponies  Copying

Paggging and hazing  Bullying  German student duels

Student organizations  German corps

Ancient student societies

Literary societies

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

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

School plays
Divided by language like 400; e.g. 2 English, 3 German

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

Physically defective
See also 362.4 Asylums for blind and def

Blind
See also 655.38 Printing for the blind
Def
Finger alphabet    See also 378 for degree conferring colleges

Blind-def

Mentally defective
Divided like 132 see also 362.3 Idiot asylums, 920.8 Lives of idiots, cranks, etc.

Morally defective    Delinquents
See also 364 Reformatories. Criminal classes

Other abnormal classes
See also 136.76a-g in Child study

Exceptionals
Dependents
See also 365 Hospitals, asylums and allied societies

.96 Special ranks
See also 375.002 Courses for different social classes

Princes
Nobles

Special types
See also 372.17 Boys, the 'gang'

Freedmen    Negroes
See also 378.75--76 for degree conferring colleges

Indians

.976 Orientals

.98 Special nationalities
Special schools for foreigners; e.g. Germans, Hungarians, Russians, Japanese in United States

.99 Coeducation of races
Elementary education

Primary schools. Dame schools. Infant schools (under 7 years)
See also Day nurseries 368.7; Minding schools 362.5 or 362.7; Crèches 362.7

Pedagogics and didactics of primary schools

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

Kindergarten

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

Theory Principles

Essays
Periodicals
Societies
Training kindergartners

History Divided if wished like 940–999

Methods
Gifts and occupations
Gifts
Occupations
Stories
Songs and games

Influence of kindergarten
Relation to other schools

Observing powers Object teaching Science

Nature study Divided like 500–999; e.g. Birds 372.3598a

Gardening

Reading Alfabet Fonics and word methods

Spelling
See also 428.6 Elementary readers

Simultaneous teaching of reading, writing and spelling

Elementary writing and manual work
See also 741 Freehand drawing

Writing
First efforts, imitating printed roman letters

Drawing Design
See also 741 Drawing

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 513. For Abacus see 211.7

.8 Other studies
Divided if wished like 010-999; e.g. 372.8 Religion

.89 Elementary geograhy
See also 910.7. Elementary text books may be put with their subjects, but a primer of geography is more useful to a student of elementary schools and methods than to one interested in Geography, 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, endowed 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 endowed secondary schools for boys or both sexes; but class all public (taxsupported) schools in 379.4-9, all primary schools (regardless of support) in 372.3, 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, 88. 373.42 Higher English schools, Eton, Harrow, etc
Home education  Self education and culture
Cultural, personal aspect of education.
Subdivided by c with form numbers if wisht; 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 374.13 University extension

With or without personal guidance

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 374.196.
See 028, for preparation of guides, policy, methods, etc.

Associated study  Clubs

.21 Study clubs
Class here 'travel clubs' which study about places without travelling 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 371.525

.25 Traveling clubs  Educational value of travel
Clubs which travel for study. See also 374.21

With personal guidance
Either alone or in groups, clubs or classes

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 clas with their subject, with only a reference here: e.g. correspondence schools of agriculture 639.7

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
374.6 Extension courses  Lecture study
   .62 Lecture study
   3 or more lectures on the same subject, with 2 or more of the 7 factors
   .64 Extension courses
   5 or more lectures on the same subject with 4 or more of the 7 factors
   .8 Continuation schools
   Summer, winter, vacation, night (adult) etc. German auxiliary schools
   Divided like 940-999 For evening or night schools see also 379.19
   .9 Central organizations, state departments, institutes
   N.Y. state home education dept, Brooklyn institute, Cooper institute,
   Chautauqua, etc

375 Curriculum
   .001 Order of studies
   .002 Single course
   .003 Parallel courses
   .004 Optional courses Electiv system
   .005 Balanced courses Group system
   Special topics
   .006 Overcrowding curriculum
   .007 Courses for different classes of society
   For broadwinning vs culture
   .008 Failure of course to develop efficiency
   Courses for schools of special kinds
   Courses in schools of Roman catholic order of St Ann; outline
   of study for common schools; courses in French lycées, etc.
   See also special schools under their respective subjects
   .009 Courses for institutions in special countries
   Divided like 900. See also 379.4-9

.01-.9 Subjects of study
   Divided like the classification 010-999; e.g. 375.5 Place of science in the
   curriculum, 375.04 French literature in the curriculum. 375.88 Classics
   in the curriculum
   Methods of teaching individual subjects, also textbooks, may be kept with
   educational literature by adding letters to 375 as follows: A general, B edu-
   cational value of specific subjects, C place in curriculum, D methods of
   teaching specific subjects. E textbooks;
   e.g. 375.32 B Educational value of political science
   375.32 C Place of political science in the curriculum

376 Education of women
   See also 396.4

.1 Physical capacity of women

.2 Mental capacity of women
   See also 136.1 Mental characteristics as influenced by sex

.3 Home or domestic instruction
   By tutor or governess. See also 374

.4 Fashionable education 'Finishing' schools
   Discussion. For prospectuses, catalogs, etc, see 376.9

.5 Convent education
   Discussion. For prospectuses, catalogs, etc, see 376.9
Higher education of women

Secondary and college

Secondary: Preparatory schools for girls
All between primary and college. Discussion. For girls highschools see 379.4-9; for private preparatory schools see 376.9

Influence of college education on women

Associations of college women
Association of collegiate alumnae. Alumnae of a single college with that college

Coeducation Segregation Separation
Discussion of collegiate education of women in separate institutions or those for both sexes, whether in the same or separate classes. See 378 for coeducational institutions. 378.8 for separately organized colleges, either affiliated like Barnard and Radcliffe or independent like Vassar, Smith, etc
Class here by attraction general discussion of coeducation of sexes in college and secondary school

Colleges for women
Degree-conferring colleges go here. Arrange material of each college by "Table for school and college publications" following 378.99. All other schools for women go in 376.9

Special countries and schools: history, reports, etc
Subdivided like 940-990: e.g. 376.943 Education of women in Germany

Religious, ethical and secular education

Relations of religious to secular education. For inculcation as well as actual teaching of definite ethical or religious doctrines see 375; e.g. instruction in duties of citizenship, patriotism 375.171, course in Christian evidences 375.239 Class catalogs, history, etc of a denominational school regardless of religious affiliation, but class here books dealing in general with schools of a certain denomination or order; e.g. educational system of the Jesuits 377.35

Religious instruction Bible in public schools
Including sectarian instruction or influence in public schools. Public school teachers in religious garb. Conscience clause of English elementary school code

Ethical education
See also 170.7 Study of ethics; 375.17 Place of ethics in curriculum

Monastic or abbey schools
Ecoles congréganistes. Divide like 271. See also 271 Monastic orders; 376.5 Convent education of girls

Diocesan schools Cathedral schools
Domschulen, stiftschulen

Parochial schools
See also 257 Parochial schools

Missionary schools
See also 266 Missions

Charity schools
Mainly for elementary education. See also 361 Charitable institutions

Church and education
Subdivided like 280; e.g. 377.82 Relation of Roman Catholic church to education. Discussion of denominational schools or educational associations e.g. 377.83 Association of Catholic colleges of United States See also 261.5 Church and intellectual development

Nonchristian religions and education
Subdivided like 390; e.g. 377.97 Relation of Mohammedanism to education
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
College terminology, 'slang'
Including also student slang. See also 437, 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 Administrative officers

.13 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

.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

.16 City vs country colleges

.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 614.31 State regulation of medical education

.22 Graded degrees
Pass, honor, cum laude, magna cum laude, etc

.23 Degrees in course
Advanced degrees conferred at specified periods on graduates in good standing, without evidence of advanced attainments
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 Endowment of research

-32 Fellowships

-33 Scholarships
Rhodes scholarships Traveling scholarships

-35 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 marked 378.744 H. E. and a second history would be numbered 378.754 H. F.
The practical convenience of this plan outweighs the objection that it introduces classification into the book numbers
If preferred, colleges and universities may be arranged alphabetically under continent number, instead of being class first by country or state; e.g. European universities under 378.4 in alphabetic order regardless of country. United States colleges and universities all in one alphabet under 378.73

-99 Professional, technical and other special schools Professional education
Best kept with subject, but may be compactly grouped 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, inaugurals, etc, Baccalaureate and other addresses |
| L | Programs, Tickets, Memorabilia |
| M | Faculty (as a body), Publications, Regulations |
| 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

#### 1 Public school system

##### 11 School funds

##### 12 National and state aid to education

*See also 336.14 Finance*

- 121 Public aid to private and sectarian schools
- 123 Land grants
- 124 Subsidies

##### 13 Local support

*Taxation, Bonds, Endowment, Nonresident tuition*  
*See also 336.18 Taxation*
379.14 School laws and regulations
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 373.9
.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; 363.5 Pauper asylums
.23 Compulsory education
See also 371.32 Truancy
.24
.3 Public vs private and endowed schools
.4-.9 Special countries, sections, cities, etc
Subdivided like 940-999: e.g. 370.73 Reports of U.S. commissioner of education; 379.74 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 A9
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 Postofis
   See also 353.4 U. S. administration
384 Telegraf Cable Telefone
   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
90 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

91 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

92 Birth, home, and sex customs

1 Birth customs: christening, circumcision
2 Sacrifice and exposure
See also ethics, 171.4 Infanticide
3 Family and home relations
4 Betrothal
5 Marriage
6 Sex relations Concubinage

3 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

1 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
395 Etiquet
396 Woman's position and treatment
   For costumes, see 391.2: biography, 390.7
   If a special library about women is wished, 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 medicine. Books on
   woman in general go in 396
   .1 Emancipation
   .2 Legal status, property, rights, etc.
   .3 Political status
      See 324.3, Suffrage; 390.83, Woman suffrage party
   .4 Education
      See also 376, Education of women
   .5 Employment
      See 331.4, Labor of women; 371.18, Teachers
      Divided f e the general classification; e.g. woman as scientist, 396.55:
      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
   geographic divisions of history
398 Folklore Proverbs, etc.
   See also 391-3 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 super-
      stitions:
   .4 Fairies, elves, ogers, monsters, etc.
      Bogies, gnomes, dragons, vampires, werewolfs
   .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
   Weapons   War dances   Treatment of captives   Scalping Mutilation Burning
   Cannibalism   See also 613.4 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 practice 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 Philosophy Origin of language
402 Compendes Outlines
403 Dictionaries Cyclopedias
404 Essays, lectures, addresses
405 Periodicals
406 Societies, transactions, etc.
407 Education, teaching languages
408 Polygrafi Collections

.9 Universal language .91 Volapük

409 History of language

410 Comparativ

410-419 includes comparative works in general and also those on the Indo-European group in general, but general and comparative 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 Orthografy Orthoepy Alfabetes
412 Etymology, derivation
413 Dictionaries, lexicografy
414 Phonology Visible speech
415 Grammar, morphology, syntax
416 Prosody
417 Inscriptions Paleografy

See 421.7, 471.7, 481.7, etc. Rare early mss are put in 091

418 Texts

419 Hieroglyfics

See also 493.1

.1 Sign language

For def mute alfabetes, see 371.912
420 English philology

3 Philosophy 4 Compounds 5 Essays 6 Periodicals 7 Societies 8 Study and teaching 9 Collective works 9 History of the language

421 Orthography
See also this head treated in general grammars placed under 485

1 Alphabet
For def mute alfabelts, see 371.919

2 Vowels Diphthongs Aspirates

3 Consonants

4 Phonetic spelling Spelling reform

5 Orthoepy

6 Accent

7 Palaeography Inscriptions

8 Abbreviations
For stenographic and other uncommon contractions and abbreviations, see 652 Shorthand

9 Punctuation

422 Etymology Derivation
492 is limited to derivation. For inflection, also called etymology, see 495 1

1 Origin and laws of language

2 Prefixes Suffixes

3 Reduplication

4 Foren elements

5 Noun forms: case, number, diminutives

6 Adjectival forms Degrees of comparison

7 Pronominal forms: personal, possessive, relative, etc.

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

9 Particles: adverbs, prepositions, etc.

423 Dictionaries Idioms

1 Idioms 2 English 3 German, etc. Put in 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: a French-Latin dictionary with Latin, 473: a. If in several languages, put with 413, or with least known. Put French-French dictionaries 443, not 443: a, 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 alphabetized. 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 sm and out dictionaries together under little known tuns is more convenient. References in either case show what may be found in the other place

424 Synonyms Homonyms
Grammar

425 includes general works, covering also orthography and prosody

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

Prosody

See also under Prosody in general grammars

.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

Dialects

Early forms of language

Slang

Subdivided by geographic divisions like 427. 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 beds 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 marked .01; .09 is used for modern slang, e.g., 427.01 Old English

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, 830

.1 Spelling books
.2 First lessons
.3 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
.4 Vulgarisms
.5 Use of words

See 427.09 Slang; 424 Synonyms

.6 Elementary readers
.7 Selections
.8 Texts of individual authors
.9 Examination papers

Anglo-Saxon

The above subdivisions of English are used for all other languages and for 410, Comparative philology
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 Platt Deutsch

.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

Divide 487, Greek dialects, like 930; e.g. 487.2 Alexandrian Greek;

487.3 New Testament Greek; 487.8: Macedonian; 487.9 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 elsewhere is made to
include general works on the ancient classics
Minor languages

Each language subdivided if wished like 490 English

Minor Indo-European

Besides Teutonic, 420–439; Italic, 440–479; and Hellenic, 480–489
This head, 491, includes general works on the Indo-European tongues, 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
480–489 is really Indo-European; but see also 410

.1 Indic

.2 Sanskrit Prakrit

.3 Pali

.4 Modern East Indian languages
    Excluding Dravidian, which is 494
    Sindi
    Panjabi
    Hindustani Hindi
    Bengali
    Uriya Orissa
    Marathi
    Gujarati
    Singalese

.5 Iranian
    Old Persian
    Zend (Avestan) Old Bactrian
    Pehlevi (Huzwashes)
    Armenian
    Modern Persian
    Ossetic
    Kurdish
    Afghani

.6 Keltic
    Gathelic group
    Irish
    Gaelic or Scotch
    Manx
    Cymric group
    Welsh or Cymric
    Cornish
    Armorican or Bas Breton
    Basque

.7 Russian
    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
      Old Prussian
   .91 Lithuanian
   .92 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 assigned to any group, but is placed for convenience
   with 397 Gipsies
Natural Science

500 Science in general
501 Philosophy Theories Utility, etc.
502 Compounds, outlines Ancient and medieval science
503 Dictionaries Cyclopedia, etc.
504 Essays, lectures, addresses
505 Periodicals, scientific magazines
506 Societies, transactions, etc.
507 Education, methods of teaching and studying
   Museums
508 Polygraphy, collected works, extracts, etc.
   .1 Extracts .2 .3 General scientific travels .4—.9 Travels and
   surveys (if general) divided geographically like 940—999
509 History of science

510 Mathematics

Works on Mathematics in general not limited to any one or two sections, are
grouped by form of treatment like Science in general above; i.e., into Mathe-
matical
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 Involutions and evolutions
.8 Mercantile rules Interest Alligation Mensuration
   Gaging
   See also 658 Business manuals
.9 Problems and tables
512 Algebra.

.1 Systems of Algebra.

.2 Numerical Equations. Imaginary Expressions.
  .21 Equations, 1st to 4th degrees.
  .22 Higher Numerical Equations.
  .23 Indeterminate Equations. Diophantine Analysis.
  .24 Imaginary Expressions.

.3 Algebraical Equations. Maxima and Minima.


.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.

.9 Problems and Tables.

513 Geometry.

Plane and Solid Geometry bound together is put 513. Descriptive Geometry is 515. See also Mathematical Drawing, 744.

.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 Curves.
  .21 Circles.
  .22 Conic Sections.
  .23 Ellipse.
  .24 Hyperbola.
  .25 Parabola.
  .26 Higher Plane Curves.
513.3 Volumetric or Solid Geometry.
   .31 Lines and Planes.
   .32 Intersecting Planes.
   .33 Parallel Planes.
   .34 Polyedrons.
   .35 Pyramids.
   .36 Prisms.
   .37 Regular.
   .4 With Curved Surfaces.
   .41 Sphere.
   .42 Cone.
   .43 Cylinder.
   .5 Modern Geometry.
   .52 Transversals.
   .53 Cones. Conics. Involution.
   .54 Radical Axes and Centres of Similitude.
   .55 Poles and Polars. Reciprocal Polars.
   .56 Harmonic and Anharmonic Properties.
   .57 Correspondence. Correlation of Figures.
   .59 Surfaces of Higher Order. Cubica.
   .6
   .7
   .8 Absolute or Non-Euclidean Geometry.
   .9 Problems.
514 Trigonometry.
   .1 Trigonometric Functions. General Formulae. See 522.7.
   .2 Trigonometric Series.
   .3 Exponential Formulae.
   .4 Solution of Trigonometric Equations.
   .5 Plane Trigonometry. Solution of Plane Triangles.
      Analytical.
   .6 Spherical Trigonometry. General Formulae.
   .7 Solution of Spherical Triangles.
   .8 Differences of Triangles, Plane and Spherical.
   .9 Problems.
Descriptive Geometry and Projections.

1 Orthogonal Projection on Two Planes.
   11 Straight Lines. Planes.
   12 Single Curved Lines.
   13 Double Curved Lines.
   14 Single Curved Surfaces.
   15 Double Curved Surfaces.
   16 Surfaces of Revolution.
   17 Warped Surfaces.
   18 Intersections of Surfaces.

2 Isometric and Analogous Projections.

3 Oblique Projection.

4 Conical Projection.

5 Spherical Projection. See 546.8, Map projection.
   51 Orthographic.
   52 Globular.
   53 Stereographic.
   54 Polar.
   55 Gnomonic.
   56 Conical.
   57 Cylindric.

6 Perspective. See also 742, Drawing.
      See also Scene Painting.
   62 Cylindrical.
      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 Stone Cutting. See also 603.12, Masonry; 730, Sculpture.
   82 Carpentry. See also 604, Building.
   83 Stair Building. See also 604.8, Building; 739.39, Architectural design.
Analytical Geometry.

.1 Plane Loci.
.11 Right Lines.
.12
.13
.14 Transformation of Co-ordinates.
.2 Curves.
.21 Conic Sections.
.22 Ellipse.
.24 Hyperbola.
.25 Parabola.
.26 Higher Plane Curves.
.3 Loci in Space.
.31 Right Lines.
.32 Planes.
.33
.34 Transformation of Co-ordinates.
.4 Curved Surfaces.
.41 Conoids or Quadric Surfaces
.42 Ellipsoid.
.44 Hyperboloid.
.45 Paraboloid.
.46 Surfaces of Higher Order.

Modern Analytical Geometry.

.51 Systems of Co-ordinates.
.52 Abridged Notation.
.53
.54 Conics.
.55 Higher Plane Curves.
.55 Poles and Polars. Reciprocal Polars.
.56 Harmonic and Anharmonic Properties.
.57 Method of Projection.
.59 Surfaces of Higher Order. Cubics.

8 Quaternions. Calculus of Direction and Position.
9 Problems.
Calculus.

1. Infinitesimal. Method of Exhaustions. 
   Differential and Integral Calculus, bound together, is put here.

2. Differential.
   22. Indeterminate Forms.
   25. Theory of Curved Surfaces.
   26. Maxima and Minima.
   27. Problems.

3. Integral.
   31. Formulæ of Reduction and Integration.
   32. Definite Integrals. Eulerian Integrals.
   34. Multiple Integrals.
   35. Laplace’s Functions. Bessel’s and Allied Functions.
   38. Problems and Tables.
   40. Of Functions.
   41. Of Finite Differences.
   42. Of Operations
   43. Of Imaginaries. Complex Variables. See also §18.82.
   44. Problems.

Probabilities.

4. Probability of Future Events deduced from Experience.
6. Errors of Observation. Mean or Average Values.
8. Problems.
Astronomy.

520 Astronomy.

520.1 Astronomy, see 523.5; 520.2 Compendia; 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 Note under Natural Science in General, 500-509.

521 Theoretical Astronomy.

Mathematical investigation of celestial motions, especially of the Solar System. The motions of individual bodies are classed under separate heads in 522.

1 Celestial Dynamics.

1.1 General Laws of Equilibrium and Motion. See also 521.2.

1.2 Law of Universal Gravitation and Motion Relative to the Sun. See also 521.5.

1.3 Problem of Three Bodies.

1.4 Figures of Heavenly Bodies.

1.5 Rotation of Heavenly Bodies.

2 Geocentric and Heliocentric Place.

2.1 Plane of Orbit in Space.

2.2 Position of Orbit in its Plane.

2.3 Position of Body in its Orbit.

2.4 Position of Body in Space.

2.5 Heliocentric Longitude and Latitude.

2.6 Geocentric Longitude and Latitude.

2.7 Variations of Right Ascension and Declination.

2.8 Variations of Longitude and Latitude.

3 Orbits.

3.1 Definitions of Orbits.

3.2 Determination from Three Observations.

3.3 Determination from Four Observations.

3.4 Variation of Elements of Orbit.

3.5 Correction of Approximate Elements of Orbit.

3.6 Application of Method of Least Squares.

3.7 Kepler's Problem.

3.8 Equation of Center and Radius Vector.

3.9

4 Perturbations.

4.1 Mutual Action of Planets.

4.2 Action of Satellites.

4.3 Non-Sphericity of Planets.

4.4 Resisting Medium.

5 Theory of Planets.

5.1 Theory of Planets.

5.2 Theory of Satellites.

5.3 Theory of Comets.

5.4 Theory of Eclipses.

5.5 Precession and Nutation. See 533.03-6.
Practical and Spherical.

.1 Observatories.
  .11 General Plan, Location
  .12 Material and Mechanism of Dome, Drum, etc.
  .13 Transit Buildings, Wings, etc.
  .14 High Altitude Observatories.
  .15 Portable.
  .16
  .17
  .18
  .19 History Reports and Serial publications of Observatories.

.2 Telescopes. See 135-83, 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 Alt-azimuth.
  .43 Zenith Telescope.
  .44 Transit out of Meridian.
  .45 Heliometer.
  .46 Equatorial.
  .47 Prime Vertical.
  .48
  .49
522.5 Auxiliary Instruments.
- 51 Sidereal Clock and Chronometer
- 52 Electro-Chronograph
- 53 Micrometers
- 54 Personal Equation Machine. See 522.09.
- 55 For Illumination.
- 56 For Solar Observation.
- 57 Artificial Horizons.
- 58 Heliostat.
- 59

5 Auxiliary Observations.
- 61 Photometry. See 535.4, Optica.
- 62 Photography. See 535.85, Optica.
- 63 Photometry.
- 64 Polarization. See 533.3, Optica.
- 65 Spectroscopy. See 535.86.
- 66
- 67

7 Spherical Astronomy. See 3140 add 3144.
- 71 Celestial Sphere. Spherical Co-ordinates.
- 72 Rectangular Co-ordinates.
- 73 Transformation of Co-ordinates.
- 74 Differential Variations of Co-ordinates.
- 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 535.9, Optics.
- 93 Semi-Diameter of Celestial Body.
- 94 Aberration.
- 95 Precession. See 524.9.
- 96 Nutation.
- 97 Personal Equation. See 523.34.
- 98 Instrumental Errors.
- 99
Descriptive Astronomy.

.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 Repulsive Force.

.2 Solar System.
   .21 Distributive Laws of Planets.
   .22
   .23 Conjunctions and Oppositions.
   .24 Motion of Solar System in Space.
   .27
   .28 Orery, Planetarium, Gyroscope, etc. See 531-54. 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 541.6 for Orbit.
   .34 Features of Surface, Mountains, Plains, etc.
   .35 Atmosphere.
   .36 Physical Condition.
   .37 Spectrum.
   .38 Eclipses.
   .39 Charts, Photographs, etc.

.4 Planets.
   .41 Mercury and intra-Mercurial.
   .42 Venus.
   .43 Mars.
   .44 Asteroids.
   .45 Jupiter.
   .46 Saturn.
   .47 Uranus.
   .48 Neptune and trans-Neptunian.
   .49 Charts, Photographs, etc.

.5 Meteors and Zodiacal Light.
   .51 Aerolites.
   .52 Fire-balls.
   .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.
523.6 Comets.

.61 Appearance and Development.
.62 Orbits.
.63 Remarkable Comets.
.65 Physical Constitution
.67 Spectrum.
.69 Charts, Photographs, etc.

7 Sun.

.71 Constants, Dimensions.
.72 Heat and Light: Theories as to Source.
.73 Apparent Motion, Rotation. See 515.38, 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, Star-drift.
.84 Variable, Double, and Multiple Stars.
.85 Clusters and Nebulae.
.86 Physical Constitution.
.87 Spectrum.
.89 Constellations, Maps, etc.

9 Transits and Occultations.

.91 Transits of Mercury.
.92 Transits of Venus and Solar Parallax.
.93 Delisle’s Method.
.94 Halley’s Method.
.95 Photographic Method.
.96 Transits of Venus to 1874.
.97 Transit of 1882.
.98 Occultations.

[524 Maps, Observations, and Tables.

Series of observatory publications may be kept together under 524, or under 523.19 with the History and Reports of the Observatory. Special maps or observations, e.g. on Sun or Moon are better placed in sub-sections 9 under these heads, with Charts and Photographs, e.g. 523.79, thus leaving these bracketed Nos. 524 to 524.9 blank. They are printed to provide a place in case it is wished to keep all Maps and Observations together.

3 Of Moon. See also 523.39.
4 Of Planets. See also 523.49.
5 Of Comets. See also 523.69.
7 Of Sun. See also 523.79.
8 Star Catalogues. See also 523.89. ]
Earth.

.1 Constants.
.11 Mass. Weight.
.12 Density.
.13 Dimensions, Diameter.
.14 Figure. Geomorphy. 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 Projectiles.

.4 Geographical Co-ordinates.
.41 Finding Latitude. See also 527.1.
.42 By Meridian Altitudes.
.43 By Pole Star.
.44 By Altitude of two or more Stars.
.45 By Other Methods.
.46 Finding Longitude. See also 527.9.
.49 Lunar Methods.

.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 Height 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 Spheres.
.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 Measuring 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 Un-
     derground Monuments.
.33 Observations, Instruments and Records.
.34 Reduction to Station's Center.
.35 Corrections for Phase of Signal and Eccentricity.
.36 Spirit Levelling.
.37 Barometric Levelling. { These are methods. See 551-53.
.38 Trigonometric Levelling. for results, lists of heights, etc.

.4 Computation of Triangulation.
.41 Spherical Excess.
.42 Legendre's Theorem.
.43 Chord Process.
.44 By Spherical Trigonometry.
.45 By Spheroidal Trigonometry. See also application of Least Squares, 432.

.46 L. M. Z. Formulæ and Applications.
.47 Direct Deduction by Bessel.
.48 Deduction by Puissant.
.49 Tables for Computation.
526.5 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 Measures.
.58 Adjustments of Levelling.

.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, Spherical Projections.

.81 Perspective Projections.
.82 Orthomorphic Projections.
.83 Development Projections.
.84 Zenithal Projections.
.85 Equivalent Projections.

.9 Surveying.

.91 Instruments and Methods. See 526.6.
.92 Measurement of Distances.
.93 Measurement of Angles.
.94 Measurement of Heights.
.95 Levelling. See 526.38-39.
.96 Plotting.
.97 Computation of Areas.
.98 Topographical Drawing.
.99 For Special Purposes. Military, Naval, Railroad, Mining, etc.
27 Navigation.

.1 Finding Latitude at Sea. See also 57.4.
.2 Finding Longitude at Sea. See also 52.4.
.3 Finding Time at Sea. See also 59.74.
.4 Sumner's Method.
.5 Great Circle Sailing.

28 Ephemerides.

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

29 Chronology.

.1 Sidereal and Solar Day: Apparent and Mean Time, Equinoctial Time, Causes of Inequality.
.2 Solar Year, Months.
.3 Calendars. Including early and Oriental.
.4 Calendar of Julius Caesar.
.5 Calendar of Gregory.
.6 Ecclesiastical 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 537.3.
.75 Time Systems, and Standards.
.76 Distribution of Time.
.77 Cosmic Time.
.78 Instruments for Measuring: Dials, Hour-glasses, Clocks, Watches, etc. See 522.41 for Sidereal Clocks and Chronometers. See 681 for Clock and Watch making.
Physic.

Like Science in General, vis.:

General works only are arranged: 530.1, Philosophy; 5. Compounds; 5, Dictionary.

4, Essays, Lectures, etc.; 5, Periodicals; 6, Societies; 7, Education, Methods of

Teaching, Experiments; 8, Physical Units, Measuring Instruments; 9, History.

531 Mechanics.

1 Pure Motion. Kinematics.

2 Statics. Graphical statics.

21 Force and its Measure.

22 Composition of Forces and Motions.

23 Moments.

24 Parallel Forces. Centre of Gravity.

3 Dynamics. Kinetics.

31 Rectilinear Motion.

32 Vibration.

33 Undulation.

34 Rotation.

35 Centrifugal and Centripetal Force.

4 Work. Friction. See 621.80, 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 Projectiles.

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.

.1 Properties of Liquids. Pressure.
.2 Equilibrium of Liquids.
.3 Buoyant Effects. Floating Bodies.
.4 Specific Gravity. Hydrometer.
.5 Liquids in Motion.
.51 Theoretical Flow.
.52 Orifices, 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 631.2. Water engines.
   Except for libraries making Physics much more prominent than Useful Arts, all the "Applications" will be more useful under their proper heads 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.
.82 Hydraulic Engine.
.83 Water Ram.
.84 Water Wheels.
.85 Water Blast.
.9 Tables. Problems. Questions.

533 Gases. Pneumatics.

.1 Properties of Gases and Vapors.
.2 Laws of Compressibility.
.3 Atmosphere.
.4 Barometer.
.5 Air Pump
.6 Aeronautics.
.7 Kinetic Theory of Gases.
   Preferably go in Useful Arts, see 532.8, Note.
.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.

1  Theory. Undulations.


3  Musical Sound. Tuning Forks. See also 781-1, Theory of Music.

4  Analysis of Sounds. Resonators.

5  Superposition of Vibrations.

6  Graphical Representations.

7  Physiological. Ear and Larynx. See also 611-85, Anatomy; 612-85, Physiology; 613-78, Voice; 617-8, Surgery; 562.1-4, Hospitals; 152-8, Psychology.

8  Applications. Preferably go with topics elsewhere. See 513-8, Note.

81

82

83  Signals in Navigation. See also 654-9, Communication.

84  Applications to Architecture.

85  Musical Instruments. See also 780, Music.

86  Phonograph.

9  Tables. Problems. Questions.

535  Light. Optics.

1  Theory.


3  Reflection. Refraction. Absorption. See also 522-92, Astronomy.


5  Polarization. Polariscopes. Double Refraction.

6  Color.

7  Physiological. Eye. See also 611-84, Anatomy; 612-84, Physiology; 617-9, Surgery; 562.1-4, Hospitals; 152-1, Psychology.

8  Applications. Preferably go with topics elsewhere. See 533-8, 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; 523-57, Moon; 523-57, Meteors, etc.

85  Photography. See also 770.

86  Other Applications of Lenses.

87  Mirrors and Reflecting Instruments.

88  Lighthouses. See also 629-9, Harbor Engineering; 696, Commerce.

89  Tables. Problems. Questions.
536 Heat.

2. Communication.
3. Action of Bodies on Heat.
   31 Reflection.
   32 Refraction.
   33 Radiation.
   34 Absorption.
   35 Diathermancy.
   41 Expansion.
   42 Liquefaction.
   43 Solidification.
   44 Vaporization and Condensation.
   45 Incandescence.
   46 Combustion. Flame.
5. Temperature. See also 351-39, Meteorology; 613.18, Hygiene.
   51 Thermometry.
   52 Pyrometry.
   53 Electric Methods of Measuring.
6. Calorimetry.
8. Applications. Preferably go in Useful Arts. See 532.8, Nota.
   81 Steam Engines. See 621.11, Engineering.
   82 Gas Engines. See 621.43, Engineering.
   83 Heating. See 607, 621.19, 628.8, 644.
   84 Ventilating. See 607, 622.4, 628.8.

537 Electricity.

2. Statical.
   21 Quantity, Potential.
   22 Conduction, Distribution
   23 Machines.
   24 Condensers.
   25 Electrometers.
4. Dynamical.
   42 Induction Spark.
   43 Induction Spark in rarified gases.
537.5  Electro Dynamics.

.7  Electrical Measurements.

.8  Applications.  See 517.3.  Preferably go in Useful Arts.  See 532.8, Notes.

.81  Telegraph.  See 654.

.82  Telephone.  Microphone.

.83  Dynamos. Electric Lighting.

.84  Transmission of Power. Storage.

.85  Electro-Metallurgy.


.87  Medicine.  See also 615-84.

.88  Electric Signals.

.9  Tables. Problems. Questions.

538  Magnetism.

For "Animal Magnetism," Mesmerism, etc., see 154.


.2  Communication. Induction. Touch.

.3  Electro-Magnetism.

.4  Diamagnetism.

.5  Terrestrial Magnetism.

.6  Applied. Magnetic Machines.

.9  Tables. Problems. Questions.

539  Molecular Physics.


.2  Properties of Solids.

.3  Elasticity. Torsion.

.4  Strength of Materials.

.5  Permanent Displacement of Molecules.

.51  Malleability.

.52  Ductility.

.53  Hardness.

.54  Tempering.

.6  Intermolecular Forces.

.7  

.8  

.9  Tables. Problems. Questions.
Chemistry

Pure or theoretic chemistry
.1 Theories Alchemy Phlogiston .2 Compounds .3 Dictionaries, encyclopedias
.4 Essays, lectures, etc. .5 Periodicals .6 Societies .7 Education, methods
of teaching .8 Collectiv works .9 History

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

REFERENCES
612.015 Physiologic chemistry .2 660 Chemic technology
615 Medical .6 .669 Metallurgy
616.076 Pathologic .6 .7 700 Photography

541 Theoretic chemistry 542 Physical chemistry
Modern theoric theories General properties of bodies from theoric point of
view Composition Constitution Elements and compounds Affinity
Formulas Nomenclature

1 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

2 Physical chemistry

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

Solid state
See also physics, 536.45 Solidification; 539.2 Properties of solids

Liquid state
See also physics, 533.1 Properties of liquids; 536.43 Liquefaction; 541.34
Solution

Surface tension, vapor tension, viscosity, capillarity

Special types of liquids: gelatinous liquids

Inorganic liquids

Organic liquids

Gaseous state

Subdivide like 541.32. See also physics, 533.3 Properties of gases; 536.44
Vaporisation
Solute state Solubility

General
Surface tension, viscosity, diffusion, osmotic, conductivity. See also
532.7 Osmotic of liquids; 542.7 Dissolving

1 Theories: kinetic, hydrate and dissociation
2 Laws Terminology

Solution pressure Solubility
Tables of solubility

Solubility and solution of different forms
1 Solids 2 Liquids 3 Gases Absorption

Solution types
2 Colloid solutions Emulsions
Including general discussion of colloids

Solvents

Photochemistry
Relation of light to chemic action, of polarized light to chemic structure, etc.

Thermochemistry

Electrochemistry

Magnetoochemistry

Radiochemistry
Chemistry of radioactiv substances

Chemic dynamics, statics and equilibrium Affinity
Homogeneous and heterogeneous chemic equilibriums. Kinetic theory of chemic equilibriums (of Guldberg and Waage, Pfaunder, 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

Various types of compounds

Molecular types

Compound radicals
Stereochemistry Formulas of structure

Alloetropy
Isomerism Amorphous and crystallin states Tautomerism Polymerism
Class here material on structure not included in 541.6

Other general subjects
Classification Nomenclature Notation Formulas Stoichiometry
Tables Periodic law
Practical and experimental chemistry

1 Laboratories
Interior construction and installation General arrangements For architecture see 727.5

2 Apparatus and manipulations For special apparatus see 542.3-9
Manipulations Arrangements Procedure

22 Preparation of substances
Mechanical separation: trituration, pulverization, porphyryization; mortars and pestles, crushers, sifting and sieves. Disintegration by wetting heated mass. Levigation

23 Laboratory receptacles and their accessories
For use 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 Fixed, adjustable, wood. Triangles, tripods, clamps

25 Stoppers Glass, cork, rubber Corkborders

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
Measuring volume of liquid Calibrated vessels Graduated pipets, burets and cylinders

4 Heating Distillation
See also 536.5 Measurement and regulation of heat; 542.53 Blow-piping

41 General

42 Heating with coal
Laboratory furnaces: trough, cupola, reverberatory, tubular, cupe1, 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.
Fish tail 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 gauges

47 Electric heating
Heaters, muffle and furnaces; krypot furnaces
See also 542.8 Electric and galvanic manipulations

48 Operations
Evaporation with heat: sublimation, dehydration. For evaporation in vacuum see 542.77

49 Other heating operations
542.5 Flames Blowpipes

See also 544.3 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 Composite 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 qualitative analysis, 544.5 Dialysis

.65 Solidification

Precipitation, crystallisation, crystallisers

.66 Decantation

Decantation funnels, Florentine receivers, siphons, pipets

.67 Filtration and filters

Filtration with textiles, with paper, thru cotton, asbestos, powders, etc. Hot filtration Filtration in sealed 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 measurement Graduated tubes, meters

.77 Rarefaction of gas

Pumps: air, vacuum, mercury; blowing engines, bellows, suction gasometers; manometers; vacuum regulators

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 Cailliet and Linde

.8 Electric and galvanic manipulations

See also physics, 537.85 Applications of electricity to chemistry. Class here only apparatus for preparing chemical 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

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, 613.39 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 medicines
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 Qualitative analysis
Determination of chemical 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 549.53 Manipulation, 549.1 Mineralogy

.4 Gas analysis
Reactions
Identifying an isolated gas
Analysis of gaseous mixtures
See also 545.7

.5 Dialysis
For technic see 542.64; for electric dialysis see 542.8

.6 Spectrum analysis
See also physics, 535.84 Spectrum analysis

.7 Polarscopic analysis
See also physics, 535.5 Polarisation

.8 Microscopic examinations

.9 Other methods
Electro analysis

.92 Capillary analysis
545 Quantitative analysis

1. Gravimetric
   Analysis by weighing, samplings.

2. Wet method
   Titration, solution, alkali, acid.

3. Electric methods
   See also physics, 537.5 Electrometallurgy.
   For galvanoplastics see 671.

4. Constant current analysis

5. Constant voltage analysis

6. Catalytic analysis

7. Dry method
   Quantitative analyses with blowpipe, cupellation, etc.
   See also 669.9 Assaying.

8. Titrometric methods in general

9. Volumetric analysis of liquids
   See also 542.3 Measuring apparatus.

10. Volumetric analysis of gases
    Eudiometry and eudiometers; gas burets, absorption pipets.
    See also 544.4 Gas analysis.

11. Other methods
    Colorimetric, Polarimetric, Refractometric.

12. Synthesis
    General processes

13. Electric synthesis
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  .11 Hydrogen
  .12 Halogen group
    .13 Chlorin
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    .161 Fluorin
  .17 Nitrogen group
    .18 Phosphorus
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    .241 Tellurium
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    .26 Carbon
    .27 Boron
    .28 Silicon
  .29 Helium group
    .291 Helium
    .292 Neon
    .293 Argon
    .294 Krypton
    .295 Xenon

.3 Metals
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    .32 Sodium
    .33 Lithium
    .34 Rubidium
    .35 Caesium
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.4 Alkaline earths
  Calcium and magnesium groups considered together
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  .44 Magnesium group
    .45 Beryllium or glucinium
    .46 Magnesium
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546.5  Led and silver group
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       Thallium
.55  Silver group
       Copper
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       Mercury
.59  Cerium group  Rare earths
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       Cerium
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546.9 Platinum group
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.93 Iridium
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.96 Ruthenium
.97 Rhodium
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47 Organic Chemistry.
.1 Cyanogen and its Compounds.
.2 Hydrocarbons. Fatty Series.
.21 Paraffines.
.22 Olefines.
.23 Acetylenes.
.24 Valylenes. Dipropargyl, etc.
.25 Aromatic Series.
.26 Benzenes.
.27 Diphenyl Group.
.28 Naphthalene, Anthracene, Phenanthrene.
.29 Higher Series.
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.3 Alcohols. Phenols.
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548 Crystallography.

1. Systems of Crystallization.
4. Irregularities. Internal Imperfections.
5. Formation and Growth of Crystals.
6. Pseudomorphs.
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549 Mineralogy.

1. Determinative. Blowpiping. See also 548.51 548.5.
2. Native Elements.
3. Sulphides, Tellurides, Selenides, Arsenides, Antimonides,
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   6.1 Anhydrous.
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   7.1 Tantalates. Columbates.
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50 Geology.

550.1 Philosophy, Theories, Geological Time; 52, Compenda; 3, Dictionaries;
31 Essays, Papers, Tracts, Letters; 35, Periodicals; 456, Societies; 37, Study
and Teaching, Museums; 8, Collective Works; 49, History.

51 Physical and Dynamical Geology.

Including Physical Geography. For Conical Geography, see 593.

.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.
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.23 Hot Springs, Geyser.
.24 Oscillations of the Earth's Crust.

.3 Erosion and Deposition.
.31 Glaciers and Glacial Phenomena.
.32 Moraines.
.33 Transformed Materials, Till.
.34 Icebergs.
.35 Aqueous Erosion.
.36 Coast Changes.
.37 Aerial Erosion.

.4 Surface Features of the Earth.
.41 Continents.
.42 Islands.
.43 Mountains, Valleys, Orophy.
.44 Caves.
.45 Plains.
.46 Oceans.
.47 Ocean Currents.
.48 Rivers, Lakes.
.49 Springs, Wells, Ground water.

.5 Meteorology.
.51 Atmospheric Currents, Winds.
.52 Thermometry, Heat. See also 516.5, Temperature; 615-18, Hygiene.
.53 Hypsometry. See 516.56-8 for Methods.
.54 Barometry, Pressure.
.55 Storms.
.56 Climate.
.57 Moisture, Rainfall, Flow of Streams, Floods.
.58 Prairies, Forests, and Deserts.

.6 Metamorphism.

.7 Stratigraphical Geology.
.71 Archean.
.72 Cambrian.
.73 Silurian; 731, Lower Silurian; 732, Upper Silurian.
.74 Devonian; Old red sandstone.
.75 Carboniferous.
.76 Triassic and Jurassic. Lias, Oolite.
.77 Cretaceous.
.78 Tertiary; 781, Eocene; 782, Miocene; 783, Pliocene.
.79 Quaternary; Postpaleocene. Glacial; 791, Recent.
### Structural Geology

1. Stratification.
2. Curvature and Contortion.
3. Ripple Marks and Sun Cracks.

### Agents of Geological Work

1. Frost.
2. Water.
3. Atmosphere.
5. Animals.
7. Plants.
8. Segregation and Concretion.
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4. Trachyte.
5. Rhyolite.
7. Felsites.
8. Basalt.
9. Other Volcanic Rocks

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4. Diabase and Gabbro.
5. Dolerite.
6. Diorite.
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2. Gneiss.
7. Serpentine.
9. Other Metamorphic Rocks.
53 Economic Geology. See also 622.1, Mining engineering.

.1 Ore Deposits.
.11 Formation and Structure.
.12 Classification.
.13 Superficial. Placers.
.14 Stratified. Beds, etc.
.15 Unstratified.
.16 Disseminated through eruptive rocks.
.18 Chambers and Pockets. Impregnations.
.19 Mineral Veins.

.2 Carbon Series.
.21 Peat.
.22 Lignite and Jet.
.23 Cannel Coal. Bituminous Shale.
.24 Bituminous and Semi-Bituminous Coals.
.25 Anthracite and Graphitic Anthracite.
.26 Graphite. Plumbago.
.27 Asphalt and Asphalitic Coals. Ozocerite.
.28 Petroleum. Natural Gas.
.29 Fossil Gums and Resins.

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.46 Ores of Manganese and Chromium.
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  553.5 Marbles and Limestones.
  554 Granites and Syenites.
  555 Sandstones.
  556 Slates.
  557 Serpentines. Soapstones.
  558 Porphyries.
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  563 Sands.
  564 Rock Salt. Gypsum.
  565 Phosphates. Apatite. Guano. See also 631.
  566 Emery.
  567 Heavy Spar. Sulphur.
  568 Asbestos, etc.
  569 Limes and Mineral Cements.
  570 Other Earthy Economic Minerals.

Mineral Waters.
  571 Alkaline. Divide general works geographically like 930-999; e.g.
  572 Saline. Mineral waters of Germany, 553-5043.
  573 Chalybeate, iron-bearing.
  574 Sulphuric.
  575 Calcic. See also 551.25.

Gems. Ornamental Stones.

Other Economic Minerals.

Geology of Europe. 554-559 subdivided by countries like 940-999.

Geology of Asia.

Geology of Africa.

Geology of North America.

Geology of South America.

Geology of Oceanica. Polar Regions.

Paleontology. Use forms divisions as in 550 and divide geographically like 930-999; e.g. Paleontology of Germany is 560.943.

Plants. 561 is subdivided like Botany, 560.

Invertebrates. 562-569 is subdivided like Zoology, 500-599.

Protozoa. Radiates.

Mollusks.

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Reptiles. Birds.

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## Prehistoric Archaeology

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      .21 Alluring; Bait, Light, etc. .12, Hunting; Nets, Collecting boxes, etc.
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59-90 is subdivided like 599-999.

This Geographical Classification is to be used only for general works and cross-references. The "Flora of North America" is put 581.97; but "North American Cryptogams" is classed 580 with a reference from 581.97, but No. Am. Phanerogamia goes with 581.97 because it so completely covers the subject. General Works covering both Phanerogamia and Cryptogamia are put under 580 as books on 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 third place in Paleontology, e.g. 592 Invertebrates, 596 Fossil Invertebrates, and so on to 599 Mammals, and 595 Fossil Mammals. But in Fossil Plants, 561, all eight sections are grouped together and the section number must be repeated. Fossil Phanerogamia are 561, not 568, which is assigned to Invertebrate Zoology as more important. Lichens are 561.41, etc. In the same way the Fossil Flora of North America is 561.197, i.e., the first two Botany figures, 56, are changed to 561 to give the corresponding Fossil Botany number, while in Zoology the only change is from 59 to 56 for first two figures, except in 597 which cannot change to 561, which is assigned to Botany. The Fossil Flora of North America must therefore go among general works under 561.97.

Phanerogamia See also Trees 715.

The sub-sections below are taken from the recognised authority, Bentham and Hooker's Genera Plantarum.

Dicotyledonae

1. Polypetalae.

11. Ranales.

111. Ranunculaceae.

112. Dilleniaceae.

113. Calycanthaceae.

114. Magnoliaceae.

115. Anonaceae.

116. Menispermaceae.

117. Berberidaceae.

118. Nymphaeaceae.
Parietales.

.121 Sarraceniaceae.
.122 Papaveraceae.
.123 Cruciferae.
.121 Capparidaceae.
.133 Resedaceae.
.134 Cistaceae.
.135 Violaceae.
.137 Cannabaceae.
.138 Bixaceae.
.14 Polygalaceae.
.141 Pittosporaceae.
.142 Tremandraceae.
.143 Polygalaceae.
.145 Vochozialeae.
.15 Caryophyllaceae.
.151 Frankeniaceae.
.152 Caryophyllaceae.
.153 Sileneae.
.154 Alsinaceae.
.155 Polycarpaceae.
.156 Portulaceae.
.158 Tamariscinaceae.
.16 Guttiferales.
.161 Elatinum.
.162 Hypericinaceae.
.163 Guttiferae.
.166 Ternstroemiaceae.
.167 Dipteroncarpaceae.
.168 Chinaceae.
.17 Malvae. Malvaceae.
.18 Sterculiacae.
.19 Tiliaceae.
.20 Geraniales.
.211 Linaceae.
.213 Humiriaceae.
.214 Malpighiaceae.
.221 Zygophyllyceae.
.223 Geraniaceae.
.23 Rutaceae.
.241 Simarubaceae.
.245 Ochnaceae.
.247 Burseraceae.
.251 Meliaceae.
.255 Chalitetaceae.
Olacales.
  Olacineæ.
  Ilicineæ.
Celastrales.
  Celastrinæ.
  Stackhousiææ.
  Rhamnææ.
  Ampelideæ.
Sapindales.
  Sapindaceæ.
  Sabiaceæ.
  Anacardiææ.
Anomola.
  Coriariææ.
  Moringææ.
Rosales.
  Connaraceæ.
  Leguminosæ.
  Rosaceæ.
  Saxifrageæ.
  Crassulaceæ.
  Droseraceæ.
  Hamamelideæ.
  Brunieææ.
  Haloragideæ.
Myrtales.
  Rhizophoreæ.
  Combretaceæ.
  Myrtaceæ.
  Melastomaceæ.
  Lythraceææ.
  Onagraceææ.
Passiflorales.
  Samydaceæ.
  Loasææ.
  Turneraceæ.
  Passiflorææ.
  Cucurbitaceææ.
  Begoniaceææ.
  Datisceææ.
Ficoidales.
  Cactææ.
  Ficoidææ.
Umbellales.
  Umbelliferææ.
  Araliaceææ.
  Cornaceææ.
Gamopetaleae.

-51 Rubiales. Caprifoliaceae.
-52 Rubiaceae.
-53 Asterales.
-531 Valerianaceae.
-541 Dipsacaceae.
-546 Calyceraceae.
-55 Compositae.
-58 Goodeniaceae.
-59 Campanulaceae.
-6 Ericales.
-61 Vacciniaceae.
-62 Ericaceae.
-63 Monotropaceae.
-64 Epacridaceae.
-65 Diapensiaceae.
-66 Lennoaceae.
-67 Primulales.
-671 Plumbaginaceae.
-672 Primulaceae.
-677 Myrsinaceae.
-68 Ebenales.
-681 Sapotaceae.
-685 Ebenaceae.
-686 Styraceae.
-7 Gentianales.
-71 Oleaceae.
-716 Salvadoraceae.
-72 Apocynaceae.
-73 Asclepiadaceae.
-74 Loganiaceae.
-75 Gentianaceae.
-76 Polemoniales.
-761 Polemoniaceae.
-764 Hydrophyllaceae.
-77 Boraginaceae.
-78 Convolvulaceae.
-79 Solanaceae.
-8 Personales.
-81 Scrophulariaceae.
-821 Orobanchaceae.
-825 Lentibulariaceae.
-829 Columelliaceae.
-83 Gesneriaceae.
-84 Bignoniaceae.
-85 Pedaliaceae.
-86 Acanthaceae.
-87 Lamiales.
-871 Myoporaceae.
-876 Selaginaceae.
-88 Verbenaceae.
-891 Labiatae.
-899 Ordo anomalus. Plantaginaceae.
Apetalæ.

Curvembryæ.

Nytaginææ.
 İllecbracææ.
Amarantacææ.
Chenopodiææ.
Phytolaccœææ.
Batideææ.
Polygonacææ.

Multiovulæ Aquaticææ.
Podostemacææ.

Multiovulæ Terrestresææ. Nepenthaceææ.
Cytinacææ.
Aristolochiacææ.
Micrembryææ. Piperacææ.
Chloranthacææ.
Myristicææ.
Monimiææ.

Daphnalesææ.
Laurinææ.
Proteacææ.
Thymelæacææ.
Penæacææ.
Elæagnææ.

Achlamydosporææ.
Loranthaceææ.
Santalaceææ.
Balanophorææ.

Unisexualææ.
Euphorbiæææ.
Balanopsæææ.
Urticæææ.
Platanaceææ.
Leitneriææ.
Juglandææ.
Myricaceææ.
Casuarinææ.
Cupuliferææ.

Anomaliææ.
Salicineææ.
Lacistemacæææ.
Empetraceææ.
Ceratophylleææ.
Monocotyledonæ.

1. Microspermae.
11. Hydrocharidæ.
15. Orchidæ.
2. Epigynæ.
22. Bromeliaceæ.
24. Iridæ.
25. Amaryllidæ.
26. Taccaceæ.
27. Dioscoreaceæ.
3. Coronariæ.
31. Roxburghiaceæ.
32. Liliæ.
34. Pontederiaceæ.
35. Philydraceæ.
36. Xyridæ.
37. Mayaceæ.
38. Commelinaceæ.
39. Rapateaceæ.
41. Flagellariæ.
45. Juncaceæ.
5. Palæ.
61. Pandanæ.
62. Cyrlanthaceæ.
63. Typhaceæ.
64. Aroidæ.
68. Lemnaceæ.
7. Apocarpæ.
71. Triurideæ.
72. Alismaceæ.
74. Naiadaceæ.
8. Glumaceæ.
81. Eriocaulæ.
82. Centrolepideæ.
83. Restiaceæ.
84. Cyperaceæ.

Gymnospermæ.
1. Gnetaceæ.
2. Coniferae.

Cryptogamia.

Pteridophyta.
1. Isoetæ.
2. Equisetæ.
3. Filicineæ.
9. Lycopodineæ.
588  Bryophyta.
   .1  Sphagna.
   .2  Musci.
   .3  Hepaticæ.
   .4  Characeæ.

589  Thallophyta.
   .1  Lichenes.
   .11  Basidiolichenes.
   .15  Ascolichenes.
   .16  Angiocarpæ.
   .17  Gymnocarpæ.
   .18  Gelatinoseæ.
   .19  Byssaceæ.
   .2  Fungi.
   .21  Carposporeæ.
   .22  Basidiomycetes.
   .221  Gasteromycetes.
   .222  Hymenomycetes.
   .224  Tremellinae.
   .225  Uredineæ.
   .227  Ustilagineæ.
   .229  Entomophthoreæ.
   .23  Ascomycetes.
   .231  Tuberaceæ.
   .233  Discomycetes.
   .235  Pyrenomycetes.
   .238  Gymnoasææ.
   .24  Oosporeæ.
   .25  Peronosporeæ.
   .26  Saprolegnieæ.
   .27  Zygoasææ.
   .28  Zygomycetes.
   .29  Myxomycetes.

   .3  Algae.
   .4  Carposporeæ.
   .41  Florideæ.
   .47  Coleochaeteæ.
   .5  Oosporeæ.
   .6  Zygoasææ.
   .61  Conjugateæ.
   .67  Zoosporeæ.

   .7  Prototyphya.
   .8  Chlorophyllaceæ.
   .9  Achaetophyllaceæ.
   .91  Saccharomycetes. Yeast.
   .95  Schizomycetes. Bacteria. Microbes.

See also 614 41, Origin of infectious diseases; 616 01, Germ theory of...
Physiological Zoology.

1 Physiology.
   11 Circulation.
   12 Respiration:
   13 Nutrition:
   14 Secretion and Excretion:
   15 Variation. See also 375-9. Evolution:
   16 Generation:
   17 Histogenesis:
   18 Nervous Functions and Sensation.
   19 Physiological chemistry.

2 Pathology.

3 Embryology:
   33 Development of Embryo; 34 Metamorphosis, larva, pupa, moulting; 35 Hypermetamorphosis; 36 Production of sexes. See also 375-9. Origin of sexes.

4 Morphology. Comparative Anatomy.
   41 Circulatory Organs.
   42 Respiratory Organs.
   43 Nutritory Organs.
   44 Secretory and Excretory Organs.
   45 Generatory Organs.
   46 Motory Organs.
   47 Nervous System.

5 Habits and Behavior.
   51 Instinct. Reason.
   52 Abode. Migration.
   53 Food.
   54 Seasons. Hibernation.
   55 Sociability.
   56 Philoprogenitiveness. Breeding.
   57 Means of Protection. Fascination.
   58 Other Habits.
591.6 Economic.
   .61 Usefulness.
   .62 In Nature.
   .63 As Food and Medicine for Man.
   .64 In Chemistry and Manufactures.
   .65 Noxiousness.
   .66 Offensive Animals.
   .67 Animals causing Diseases.
   .68 Injuring Vegetable and Animal Products and Inorganic Substances
   .69 Injuring Living Plants and Animals. Parasites.

.7 Organography. Descriptive Anatomy.
   Subdivided like 591.4, Morphology.

.8 Histology. See also 578-9, Microscopical zoology.

.9 Geographical Distribution of Animals.
   Subdivided like 930-999, using .90 for ocean.

592 Invertebrates.

593 Protozoans. Radiates.

   .1 Protozoans.
   .11 Rhizopoda.
   .12 Foraminifera.
   .13 Heliozoa.
   .14 Radiolaria. Polycystina.
   .15 Infusoria.
   .16 Flagellata.
   .17 Ciliata.
   .18
   .19 Gregarinidae.

   .2 Radiates.

   .3 Coelenterata. Aculea (old use of term, now limited to 902-72).

   .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 Hydromedusae.
      .72 Siphonophora.
      .73 Acalepha.
      .74 Calycocida.
      .75 Marsupialida.
      .76 Diacophora. Jelly Fish.

   .8 Ctenophora. Jelly Fish.
Echinodermata.

- Crinoidea. Sea Lilies.
- Asteroida. Star Fish.
- Stelleridea.
- Ophiuroidea.
- Echinoidea. Sea Urchins.
- Holothuroidea. Sea Cucumbers.
- Pedata.
- Apoda.
- Enteropneusta.

Mollusks.

- Lamellibranchiata. Bivalves.
- Scaphopoda.
- Gastropoda. Univalves. Snails. Slugs. See also 632, Pesta.
- Pteropoda. Winged Shells.
- Cephalopoda. Squids and Cuttlefish.
- Molluscoidea.
- Bryozoa. (Polyzoa.) Sea Mats.
- Brachiopoda. Lamp Shells.
- Tunicata. (Ascidia.) Sea Grapes.

Articulates.

- Worms. Vermes. See also 632, Pesta.
- Arthropoda.
- Crustacea.
- Entomostraca. Cyclops, Shrimps, etc.
- Phyllopoda.
- Ostracoda.
- Copepoda.
- Cirripedia. Barnacles, etc.
- Malacostraca. Sandbugs, Crabs, Lobsters, etc.
- Arthrostraca.
- Thoracostraca.
- Gigantostraca. Trilobites.

- Arachnida. Spiders. Scorpions. Mites. See also 632, Pesta.
- Onychophora.
- Myriopoda. Centipedes, etc. See also 632, Pesta.

Insects. Insecta. Hexapoda. See also 632, Pesta.

- Thysanura. Bristle-tails, spring-tails, etc.
- Orthoptera. Grasshoppers, etc.
- Pseudoneuroptera. Dragon-flies, white ants, etc.
- Neuroptera. Caddice flies, etc.
- Rhynchota. (Hemiptera.) Bugs, etc.
- Coleoptera. Beetles.
- Diptera. Flies, etc.
- Lepidoptera. Butterflies, Moths.
- Hymenoptera. Bees, Wasps, etc.
Vertebrates.

Fishes. Pisces.
1. Pharyngobranchii. Lancelei.
3. Elasmobranchii. Sharks, Rays, etc.
4. Ganoidei. Sturgeons, Garpike, etc.
5. Teleostei. True bony fishes.
6. Batrachia. (Amphibia.)
7. Ophiomorpha.

Reptiles. Birds.
1. Reptiles.
15. Ichthyopterygia.
17. Anomodontia.
18. Pterosauria.
19. Dinosauria.
3. Grallatores. (Waders.)
4. Natatores. (Swimmers.)
5. Cursorio. (Runners.)
6. Rasoires. (Scratchers.)
7. Scansores. (Climbers.)
8. Insossores. (Perch.)
9. Raptore. (Birds of Prey.)

Mammals. Mammalia.
   Moles.
5. Cetacea. Sirenia. Whales, etc.
Useful Arts

600 Useful Arts.
601 Philosophy. Theories, etc.
602 Compendes. Outlines.
603 Dictionaries. Cyclopedia.
   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.
Medicin
610.1 Philosophy, theories .2 Compendia .3 Dictionaries, encyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .72 Medical schools divided like 940-999 .73 Medical education of women .77 Training schools for nurses .78 Medical museums .8 Collections .9 History of medicine

Anatomy
See also 591.4 Comparative anatomy; 591.8 Zoologic histology
SUMMARY

611.01 Theory
.012 Teratology
.013 Embryology
.014 Anthropologic anatomy
.015 Paleontologic "
.018 Histology
.1 Circulatory system
.2 Respiratory "
.3 Digestive "
.4 Glandular and lymphatic system
.6 Genito-urinary system
.7 Motor and integumentary system
.8 Nervous system
.9 Regional anatomy

Theory
Notion, definition, value
Classification, division
Terminology

611.02 Teratology
Anomalies
To be subdivided like revised 617.3 Orthopedic surgery

611.03 Ontogeny
Embryology
See also physiology, 612.6 Reproduction and development
Germinativ cells

1 Sperm
2 Spermatogenesis See also 611.63 Male genital organs
15 Ovum
16 Ovogenesis See also 611.65 Female genital organs
17 Maturation Corpus luteum

2 Copulation Fecundation Fertilization
See also Fecundation, in botany 581.166; in zoology 591.3

Germ layers

3 Segmentation Cleavage Blastula
31 Blastula
32 Gastrula
33 Primitiv streak
34 Blastopore Primitive mouth
35 Archenteron Primitive gut
36 Neurenteric canal
37 Entoderm, entoblast, hypoblast or endoderm
38 Ectoderm, epiblast or ectoblast
39 Mesoderm or mesoblast
395 Mesenchyme

4 Entodermic, entoblastic or hypoblastic organs
41 Notochord

5 Ectodermic, epiblastic or ectoblastic organs
Epiidermal layer

51 Neural furrows, folds and canal or medullary plates
See also 611.8 Nervous system
Mesodermic organs

Protovertebrae Mesoblastic somites, or primitiv vertebræ

Somatopleure, body wall, or musculo cutaneous plate
  Outer lamella of lateral plates

Splanchnopleure, fibrous wall of alimentary canal, or
gut fiber plate
  Inner lamella of lateral plates

Coelom, pleuroperitoneal or body cavity
  See also 611.399 Coelom

Blood or primitiv vessel wall
  See also 611.0185 Histology of blood

External form of embryo

Fetal appendages

Vitellin sac

Allantois

Amnion

Amniotic fluid

Chorion

Placenta Umbilic cord

Experimental embryology

Anthropologic anatomy
  See also 572 Anthropology

Paleontologic anatomy
  See also 560 Paleontology

Histology
  Microscopic structure of organs

Cells Cytology
  See also 576.3 Cytology For special cells see tissues to which they belong

Protoplasm

Nucleus

Cell division See also 611.0131

Centrosome

Cilia Cellular membrane

Connectiv tissue
  Connectiv, cartilage and bone tissue together known as 'su porting tissues'

Connectiv tissue cells

Connectiv tissue fibers

Ground substance or matrix

Reticular and adenoid tissue

Areolar or interstitial tissue Reticulum

Mucous or gelatinous tissue Mesenchyme
  See also embryology, 611.013395 Mesenchyme

Adipose or fat tissue

Elastic or yellow fibrous tissue

Fibrous or white fibrous tissue

Pigment and pigment cells

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

Perichondrium
611.018 4 Bone or osseous tissue
Bone cells
Osteoblasts  Osteoclasts  Howship’s lacunae  Myelo-
plagues of Robin

43 Ground substance or matrix
Spongiosum, spongy substance, or cancelled or spongy bone
Compact substance
Structure: lacunae, canaliculi, lamellae, Haversian canals,
Volkmann’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
Sarcolemma

61 Smooth, unstripped, unstriated or involuntary muscle

62 Stripped, striated or voluntary muscle

63 Cardiac muscle
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
and division

83 Prolongations and nerv fibers
Cylinder-axis process; cylinder axis.  Appendixes, varicosities
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  "

319 Comparison with anatomy of lower animals
Usually better class in 591.4

Form divisions

.02 Compendes
.03 Dictionaries  Cyclopedias
.04 Essays  Addresses
.05 Periodicals
.06 Societies  Clubs
Circulatory system

Pericardium

Hart

- Left hart
- Right hart

Ventricles

- 2 Right
- 5 Left

Auricles

- 2 Right
- 5 Left

Endocardium

Valve

- Auriculoventricular valve
- Mitral or bicuspid valve
- Tricuspid valve
- Valve of aorta and of pulmonary artery
- Sinuses of Valsalva
- Aortic valve
- Pulmonary or semilunar valves
- Valve of right auricle
- 2 Eustachian
- 5 Coronary

Myocardium

Arteries

Pulmonary artery

- 2 Right branch
- 5 Left branch

Aorta

- Aortic arch
- Ascending aorta
- Coronary arteries
- 3 Right
- 5 Left
- Innominate artery

Carotid arteries

- Common carotid
- External

- Superior thyroid
- Lingual
- Facial, or external maxillary
- Ascending pharyngeal
- Posterior auricular
- Occipital
- Superficial temporal
- Internal maxillary
- Sphenopalatine arteries
- Middle or great meningeal

- Internal carotid

- Ophthalmic artery

- Cerebral arteries, anterior and middle
  For posterior cerebral artery see 611.1349
Subclavian arteries

1. Axillary
   Superior thoracic, acromiothoracic, long thoracic or external mammary, alar thoracic, subscapular, posterior and anterior circumflex

2. Brachial or humeral
   Superior and inferior profunda, nutrient, anastomotica magna, muscular

3. Forearm arteries
   Radial
   Ulnar

4. Hand arteries

5. Internal mammary Superior epigastric

6. Costocervical trunk

7. Thyrocervical trunk

8. Posterior, or dorsal scapular, transversa colli

9. Vertebral Basilar, posterior cerebral, circle of Willis

Thoracic aorta and branches

1. Parietal branches

2. Intercostal "
   Subcostal, diafragmatic, vas aberrans

3. Visceral branches
   Bronchial, esophageal, pericardial, mediastinal

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
   Splenic, lienalis
   Pancreatic, vasa brevia, left gastro-epiploic
   Left gastric, gastric, or coronary gastric

5. Mesenteric
   Superior mesenteric
   Rami intestini tenuis, or branches of small intestine; inferior pancreaticoduodenal; middle, right and ileocolic; terminal and appendicular branches
   Inferior mesenteric
   Left colic, sigmoid, superior hemorrhoidal

6. Middle suprarenal

7. Renal

8. Spermatic

9. Ovarian

Iliac arteries

1. Common iliac

2. Hypogastric, or internal iliac

3. Parietal branches

4. Lateral sacral

5. Obturator
Gluteal
- Superior gluteal
- Inferior gluteal
- Sciatic

Visceral branches
- Umbilic, superior vesical
- Inferior vesical and deferential
- Uterin and vaginal
- Middle hemorrhoidal
- Internal pudic

External iliac artery
- Inferior epigastric, or deep epigastric
- Deep circumflex iliac
- Femoral
- Deep femoral, profunda femoris
  - 2 External circumflex
  - 5 Internal circumflex
- Arteria genu suprema, or anastomotica magna
- Popliteal
- Anterior tibial

Tibiofibular trunk, truncus tibioperoneus
- Posterior tibial
- Peroneal
- Arteries of foot
  - Dorsalis pedis
    - Tarsal, metatarsal, dorsal interosseous, dorsalis hallucis
  - Plantar

Veins

Pulmonary

Cardiac or venae cordis

Subintestinal, or fetal portal vein

Cardinal

Superior vena cava
- Imapinate veins (Veins of neck)
- Internal jugular vein
  - Thyroid veins
- Cerebral veins
  - Sinuses of dura mater
- Emissary vein
- Superior ophthalmic
- Inferior
  - Facial
- External jugular
- Posterior external jugular and vertebral
- Subclavian and axillary
- Deep veins of upper extremity
- Superficial veins of upper extremity
  - 2 Basilic
  - 5 Cephalic

Azygos

Spinal veins
<table>
<thead>
<tr>
<th>611.146</th>
<th>Inferior vena cava</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Lumbar veins</td>
</tr>
<tr>
<td>2</td>
<td>Renal &quot;</td>
</tr>
<tr>
<td>3</td>
<td>Suprarenal &quot;</td>
</tr>
<tr>
<td>4</td>
<td>Hepatic &quot;</td>
</tr>
<tr>
<td>5</td>
<td>Inferior phrenic</td>
</tr>
<tr>
<td>6</td>
<td>Spermatic</td>
</tr>
<tr>
<td></td>
<td>Pampiniform or spermatic plexus</td>
</tr>
<tr>
<td>7</td>
<td>Ovarian</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>147 Iliac veins</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<tr>
<th>149 Portal vein</th>
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<table>
<thead>
<tr>
<th>.15 Capillaries</th>
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<tr>
<td>2 Respiratory system</td>
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<tr>
<td>2.1 Nose</td>
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<tr>
<td>2.2 Larynx</td>
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<tr>
<td>2.21 Cartilages</td>
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<tr>
<td>2.23 False vocal cords</td>
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<tr>
<td>2.25 Cavity of larynx Glottis</td>
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<tr>
<td>2.27 True vocal cords Rima glottidis or chink of glottis</td>
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<tr>
<td>2.29 Muscles of larynx</td>
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<tr>
<td>2.3 Trachea and bronchi</td>
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<tr>
<td>2.31 Trachea</td>
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<td>2.33 Bronchi</td>
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<td>2.4 Lungs, or pulmones</td>
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<td>2.5 Pleura</td>
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<td>2.6 Diaphragm</td>
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<td>2.7 Mediastinum</td>
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<td>2.8 Gills</td>
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<tr>
<td>2.9 See comparative anatomy, 591.42 Respiratory organs</td>
</tr>
<tr>
<td>2.9 Other organs, including air bladder swimming bladder</td>
</tr>
<tr>
<td>2.9 See 591.42</td>
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</table>
611-3 Digestiv system

.31 Mouth, buccal cavity or cavum oris

.313 Tong

.314 Papillae

.315 Teeth

.316 Palate, palatum, or roof of mouth Soft palate, or velum pendulum palati Uvula

.316 Salivary and other glands of mouth

.317 Submaxillary and sublingual glands

.318 Parotid glands Stenson’s duct

.319 Lips

.320 Cheeks

.321 Pharynx

.322 Esophagus

.323 Tonsils

.323 Faucial tonsils

.324 Pharyngeal or Luchka’s tonsils

.325 Lingual, buccal or 4th tonsil

.326 Other tonsils: laryngeal, nasal

.327 Topography or regions of pharynx

.327 Nasal or epipharynx

.327 Oral, buccal, or mesopharynx

.327 Laryngeal or hypo pharynx

.327 Back

.327 Sides

.329 Esophagus

.329 Cervical

.329 Thoracic section

.329 Abdominal section, including diafragmatic

.33 Stomach

.333 Gastric glands: true, oxyntic or peptic; pyloric; cardiac

.334 Cardia

.335 Pylorus

.336 Greater curvature, or lower convex surface

.336 Lesser or upper concave

.34 Intestin

.341 Small intestin

.341 Meckel’s diverticulum

.342 Peyer’s patches, or tonsillae intestinales

.342 Plicae circulares

.342 Glands of Lieberkuhn and solitary glands

.342 Duodenum Brunner’s glands

.343 Jejunum

.344 Ileum

.345 Cecum

.345 Ileocecal valve

.345 Vermiform appendix

.347 Large intestin

.347 Including cecum Appendices epiploicae

.348 Colon

.348 Ascending

.348 Transverse

.348 Descending

.348 Sigmoid flexure

.34 Rectum

.348 Anus

.348 Rectum Houston’s or rectal valves

.348 Anus

.348 Perineum See also 611.96
Liver
- Bile ducts
- Bile capillaries or canaliculi
- Hepatic duct
- Cystic duct
- Gall bladder
- Common bile duct, or ductus communis choledicus
- Process and ampulla of Vater

Pancreas
- Pancreatic duct, or canal of Wirsung
- Duct of Santorini
- Glandular portion
- Interlveolar cell-ilea, intertubular cell masses, islands of Langerhans

Peritoneum
- Mesentery
- Omentum
- Coelom

Peritoneum
- Parietal
- Visceral
- Omentum, epiploon
- Lesser or gastrohepatic, great or gastrocolic, gastroplenic
- Mesentery
- Transverse and sigmoid mesocolon; mesorectum; mesoappendix
- Retroperitoneal fossae
- Coelom or pleuroperitoneal cavity

Adipose bodies

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

Spleen
- Malpighian bodies
- Capsule of spleen

Lymphatic vessels or lymphatics and capillaries:
- For lymphatics of an organ or tissue, see name of organ or tissue
- Lymphatic spaces

Lymphatics by region
- Head
- Face
- Neck
- Thorax
- Abdomen
- Pelvic region
- Upper extremity
- Arm
- Forearm
- Hand
- Lower extremity
- Thigh
- Leg
- Foot
- Tail
- Receptaculum chyli or cistern of Pecquet

Thoracic duct (left)

Right lymphatic duct

Lacteals
- Villi

Thymus
- Accessory thymus

Thyroid gland
- Accessory or aberrant thyroids
- Parathyroids

Suprarenal capsules or bodies
- Accessory suprarenal capsules
Lymphatic glands

Glands of head
   " " face
   Internal maxillary Submental

Glands of neck
   Suboccipital or occipital
   Mastoid, retroauricular or postauricular
   Retropharyngeal
   Cervical or jugular
   Subclavian

Glands of thorax
   Diaphragmatic
   Mammary lymph
   Intercostal
   Mediastinal

Abdominal lymph glands
   Iliac and hypogastric: sacral, lumbar
   Abdomino-aortic
   Juxta-aortic
   Præaortic: gastric, splenic, hepatic
   Retroaortic
   Glands of small intestine: mesenteric
   Glands of large intestine: colic, rectal

Lymph glands of upper extremity
   Axillary
   Epitrochlear or supratrochlear and other glands
   Pectoral

Lymph glands of lower extremity
   Inguinal
   Femoral
   Popliteal
   Anterior tibial

Carotid gland or body

Coccygeal gland

Genito-urinary system Brests

Kidneys
   Class here urinary organs in general
      Uriniferous tubules

Ureter

Proximal part

Pronephros

Mesonephros

Bladder Urethra

Bladder
   3 Urethral openings

Ligaments: urachus
   For pedicle of allantois see also embryology, 611.01382

Urethra
   For female urethra see 611.674
   1 Prostatic part
      Verumontanum or caput gallinaginis
      Sinus pociarius or uterus masculinus
   2 Membranous part
   3 Spongy, cavernous or penial part
   4 Lacunae Littre's glands
   Bulbo-urethral or Cowper's glands

Urogenital sinus
Male genital organs

Testicles or testes
1. Seminiferous tubules
   Straight tubules, tubuli recti or vasa recta; coni vasculosi or
   vasa efferentia
2. Tunics of testes: vaginalis, albuginea, vasculosa
3. Mediastinum testis or Highmore's body; rete testis of Haller or
   Haller's network

Epididymis
Appendixes of testes
Vasa aberrantia; hydatids of Morgagni, or pedunculated bodies;
paradidymis or organ of Giraldis

Vas deferens
Ejaculatory ducts
Seminal vesicles
Prostate
Scrotum
Dartos
Spermatic cord
Infundibula; intercolumnar or spermatic and cremasteric fascia

Penis
Root
Body
Prepuce
Glans penis, or acorn
Meatus
Corpora cavernosa
Corpus spongiosum
Bulb of urethra

Female genital organs

Ovaries
1. Medullary substance
2. Graafian follicles
Capsule of ovum, membrana granulosa, discus proliferus
3. Cortical layer
Corpus luteum or corpora lutea
See also embryology 611.01317

Fallopian tubes

Uterus
Endometrium
Corns
Body or parenchyma
Neck, cervix
Ligaments
For placenta see embryology, 611.01385 and gynecology 618.36
1. Broad or lateral
2. Round
Canal of Nuck
4. Uterosacral and utero-tubal
Pouch of Douglas
Posterior ligaments
6. Epipophoron, paroovarium, or organ of Rosenmüller
   Gärtner's duct
7. Paroepipophoron
   Müller's duct
Oviducts of lower vertebrates
Class oviducts of lower vertebrates in 591.46 except in comparison
with human organs

Vagina
Vulva

Vagina
Hymen
Vestibulum
Vulva

1. Mons veneris
2. Labia majora
3. Labia minora
Female urethra
Clitoris
Bulbus vestibuli
Bartholin's, or vulvo-vaginal glands

Brests
Nipple and areola
Glands of Montgomery
Acini, acinous glands
Galactophorous or lactiferous ducts
# Motor and integumentary systems

## Osteology

### Bones

#### Skeleton

- **Spinal column**
  - Cervical vertebrae
  - Atlas
  - Axis or epistropheus
  - Thoracic or dorsal vertebrae
  - Lumbar vertebrae
  - Sacrum or sacral vertebrae
  - Coccyx

- **Ribs**
  - Thorax
  - Costal cartilages

- **Sternum or breast bone**
  - Manubrium; gladiolus; styloid or ensiform

- **Bones of head**
  - Skull
    - For nasal cavity, inferior concha, see 611.2161
  - Calvaria or cerebral cranium
  - Sutures, fontanelles, sphenoidal or Wormian bones
  - Base of cranium
  - Orbits
  - Nasal cavity
  - Inferior conchae

- **Cranium, cranial bones**
  - Occipital
  - Sphenoid
  - Temporal
  - Parietal
  - Frontal
  - Ethmoid
  - Lacrimal
  - Nasal
  - Vomer

- **Bones of face or visceral cranium**
  - Maxillary, upper jaw or superior maxillary
  - Palate
  - Malar or zygomatic
  - Mandible, lower jaw or inferior maxillary
    - Alveolar limbus
    - Ramus of mandible
  - Hyoid
  - Skeleton branchiae

- **Bones of upper extremity**
  - Scapula, shoulder blade
    - Shoulder girdle as a whole
    - Acromion
  - Clavicle or collar bone
  - Coracoid process
  - Humerus
  - Radius
  - Ulna
  - Carpus, carpal bones or wrist bones
    - Scaphoid or navicular
    - Semilunar, or os lunatum
    - Cuneiform, or os triquetrum
    - Pisiform
    - Trapezium, or os multangulum majus
    - Trapezoid or minus
    - Os magnum, or os capitatum
    - Unciform or hook or os hamatum
    - Central
  - Metacarpus, metacarpal bones
  - Phalanges of hand
    - Basilar or proximal phalanges
    - Middle phalanges
    - Ungual or distal phalanges
    - Sesamoid
Bones of lower extremity

For pelvis see 611.96

1. Hip bone, or os coxae or innominatum
   Acetabulum or cotyloid cavity
   Ilium
   Ischium
   Pubis

Femur
45. Patella  See also 611.7383 Knee joint and 611.983 Knee

5. Tibia
6. Fibula

7. Tarsus
   Astragalus, ankle bone, or talus
   Calcaneum, heel, or os calcis
   Cuboid
   Scaphoid or navicular
   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
92. Middle or second
93. Unusual or third
94. Sesamoid bones

Ligaments  Joints

Articulations of vertebrae and of cranium

1. Occipito-atlantal and occipito-axial

2. Intervertebral articulations

3. Atlanto-axial or atlo-axoid and atlanto-odontoid

4. Lumbo-sacral

5. Sacro-coccygeal

6. Coccygeal

Costovertebral articulations

Costosternal, costochondral, chondrosternal, interchon-
dral, intersternal

Jaw joint, temporomandibular, temporomaxillary or mandible joint

Articulations of upper extremity

1. Sternoclavicular joint and costoclavicular or rhom-
toid ligament

2. Articulations of shoulder
   Shoulder joint
   Acromioclavicular or scapulo-clavicular joint  Coracoclavicular and
coracoacromial ligaments

3. Elbow joint

31. Humeroulnar joint

32. Humeroradial joint

33. Superior radioulnar or radioulnaris proximalis

4. Wrist joint

41. Inferior or distal radioulnar joint

42. Radiocarpal

5. Intercarpal articulation

51. Middle carpal joints

6. Carpometacarpal articulations

61. Intermetacarpal  "

7. Metacarpophalangeal  "

9. Phalangeal or finger joints
Articulations of lower extremity

1 Articulations of pelvis
   Sacroiliac and pubic, or symphysis ossium pubis; sacrosciatic ligament or symphysis sacrococygea

2 Hip joint, or articulo coxae
   Iliofemoral, Y or Bigelow's ligament; ligamentum teres

3 Knee joint
   Crucial or femorotibial ligaments
   Semilunar fibrocartilages
   Anterior or ligamentum patellae
   Tibiofibular ligaments

4 Ankle joint
   Inferior tibiofibular joint
   Tibiotalar ligaments

5 Intertarsal ligaments
   Astragalocalcaneal, calcaneoastragaloid or talocalcaneum; astragaloiscaphoid; calcaneoiscaphoid or calcaneonaviculare ligaments
   Calcaneocuboid ligaments
   Mediotarsal articulations
   Cuboidcuneiform
   Scaphoidcuneiform or cubonaviculare, scaphoidcuneiform or cuneonaviculare articulations
   Intercondylar articulations

6 Tarsometatarsal articulations
   Intemetatarsal
   Metatarsophalangeal
   Toe joints

Classes of joints

2 Synarthrosis or fixt joint

4 Amphiarthrosis or mixt joint

6 Diarthrosis or movable joint
   Arthrodia or gliding joint
   Condylarthrosis or knuckle joint
   Elaborous or ball and socket joint
   Ginglymus or hinge joint
   Trochoid or pivot joint

Muscular system Myology

Dorsal muscles

1 Spinothumeral or humerospinal muscles
   Trapezius
   Latissimus dorsi
   Rhomboïd
   Levator scapulae

2 Spinocostal or serrati posteriores

3 Spinodorsal
   Sacrospinalis, lumbosacral, erector spinae, transversalis cervicis
   Iliocostal
   Longissimus dorsi

4 Splenius and complexus

5 Spinalis dorsi

6 Transversospinales
   Semispinalis
   Multifidus
   Rotatores

7 Breves spinae
   Interspinales
   Intertransversarii

8 Oblique muscles of head

9 Recti capitatis 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
   Attractens, att呼口len, retractor
5 Palpebral and orbital muscles of eye
   Orbicularis palpebrarum, or sphincter of eyelids; corrugator super-
   cili, 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
   Masseter
   Temporal
   Pterygoid
71 Muscles of palate and pharynx
   Palate
   Levator palati, tensor palati, asygos uvulae, palatoglossus, pala-
   topharyngeus, salpingopharyngeus
   Pharynx
   Inferior, superior and middle constrictors, stylopharyngeus
72 Muscles of neck
   Sterno-cleido-mastoid
   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
   Pectoralis major
   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
611.737

Muscles of upper extremity

Shoulder or axillary

1. Deltoid
2. Supraspinatus
3. Infraspinatus
4. Teres minor
5. Teres major
6. Subscapular

Arm

21. Biceps brachii, or biceps flexor cubiti
22. Coracobrachialis
23. Brachialis (anticus)
24. Triceps brachii, or triceps extensor cubiti
25. Anconeus

Forearm

3. Pronator muscles
   41. Pronator radii teres
   42. " 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

Muscles of hand

71. Lumbricales
72. Palmaris brevis
73. Short abductor of thumb, or opponens pollicis
74. Short flexor of thumb, or flexor brevis pollicis
75. Adductor pollicis
76. Muscles of little finger
   77. Abductor digitii quinti (or minimi) brevis; opponens digitii quinti;
      short flexor of 5th or little finger, or flexor brevis digitii minimi
78. Interosseous muscles

Muscles of lower extremity

738

Hip and nates

11. Iliopsoas
12. Iliacus
13. Psoas major and minor
14. Gluteal
15. Tensor fasciae latae, tensor fasciae femoris or tensor vaginae femoris
16. Piriformis
17. Obturator internus
18. Gemelli or gemini
19. Quadratus femoris
Thigh muscles

Sartorius
Quadriceps femoris or quadriceps extensor femoris
Rectus femoris, vastus externus, vastus internus and cruris or vastus intermedius
Articularis genu, or subcrureus
Pectineus
Adductors: longus, brevis, magnus and minimus
Gracilis
Obturator externus
Biceps femoris or biceps flexor cruris
Semimembranosus

Leg

Anterior muscles
Anterior tibial or tibialis anticus
Extensor digitorum longus
" hallucis " or proprius
Peroneus tertius

Other muscles of leg
Peroneus longus
" brevis
Gastrocnemius
Soleus, triceps surae
Plantaris
Popliteus
Posterior tibial
Flexor digitorum longus
" hallucis "

Muscles of foot

Back of foot
Extensor brevis digitorum
Sole of foot or plantar region
Adductor hallucis (obliquus and transversus), adductor digit minimi, adductor hallucis; flexor hallucis brevis, flexor digitorum brevis, flexor accessorius, flexor digiti minimi brevis, lumbricales, interosseous muscles

Electric organs Better class in comparative anatomy

Tendons Fasciae
May be divided like 611.75; e.g. Achilles tendon 611.74854

Bursae Sheaths of tendons

Skin Glands of skin
Cuticle, scar tissue or epidermis
Hair and Malpighian layers
Glands of skin
Sebaceous
Sudoriferous or sweat
Ciliary glands
Circumanal " Ceruminous "
Corium, cutis vera, true skin or dermis
Reticular and papillary layers
Pigmentation
Subcutaneous areolar tissue, tela subcutanea or panniculus adiposus
Hair, nails, scales, fethers, etc.

For teeth see 611.314 Fur, scales, fethers, horns, etc. better clast in comparativ anatomy

Hair
Scales
Nails
Fethers
Horns

Nervous system Sense organs

Encephalon Brain

General structure of brain and cerebrospinal axis

Localizations

Telencephalon, or endbrain Prosencephalon, or forebrain Hemispheres

Measurement Weight

Longitudinal and transverse fissure

1 Pallium, brain mantle or cerebral cortex
Frontal lobe
Broca's convolutions
Parietal lobe Central fissure, sulcus centralis, or Rolando's groove
Opercula insulæ
Temporal or temporoparietal lobe Fissure of Sylvius, or fissura cerebri lateralis
Limbic lobe Gyrus fornicateus
Hippocampal gyrus, or gyrus hippocampi Callosal gyrus Dentate gyrus, or fascia dentata hippocampi Fasciola Fimbria, taenia fornica or taenia hippocampi Hippocampus major or cornu ammonis Dentate fissure, hippocampal sulcus, or subiculum cornu ammonis Callosomarginal fissure Amygdala, almond nucleus, or amygdaloid tubercle
Occipital lobe
Occipital or parieto-occipital fissure
Paracentral gyre or lobule
Cuneus Calcaris fissure
Precuneus, or quadrato lobe
Insula, island of Reil, central lobe, or gyri operi
Striatum, striate body, or corpus striatum
Basal ganglion of hemisphere
Caudatum, tail nucleus, or nucleus caudatus
Lenticula, lenticular nucleus, or nucleus lentiformis
Globus pallidus, or pallidum, and putamen
Clausum
Tenia, taenia semicircularis, stria terminalis or corneæ
Rhinencephalon or rhinencefal

Centrum ovale majus (of Vieussens) Centrum semiovale Internal capsule
Paraceles or lateral ventricles
Callosum or corpus callosum Fornix
Septum pellucidum or lucidum, or spatum Cavum septi pellucidi, 5th ventricle or pseudocele
611.814  Diencephalon, diencephal, thalamencephalon or interbrain
1  Hypothalamus or subthalamic tegmental region
   Nucleus of Luys or nucleus hypothalamicus
   Postcommisuror posterior commissura
2  Corpora albicantia, albicans, or corpus mammillare
   Bundle of Vico-d'Asyr, or fasciculus thalamomammillaris
3  Hypophysis, hypophysis cerebri or pituitary body
   Tuber or tuber cinereum  Infundibulum
4  Optic tract  Optic chiasma or commissura
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 peduncularia, ansa lenticularis
   For Nissl's bodies see 611.01883
8  Third ventricle, or diastere
   Porta or foramen of Monro, or foramen interventriculare

.815  Mesencephalon, midbrain or mesencephal
3  Quadrigeminiun, or corpora or tubercula quadrigemina
   Quadrigeminal arms
4  Pedunculi or crura cerebri, crura or crus
   Substantia nigra (Schmeling) or intercalatum
   See also nucleus of Luys 611.8141
41  Foot of peduncle, basis or pes pedunculi, or crus
42  Tegmentum
43  Red nucleus, nucleus ruber, or rubrum
5  Nuclei of oculomotor and trochlear nerves
6  Aqueduct of Sylvius, aqueductus cerebri, or mesencecle

.816  Isthmus rhombencephali
3  Valv of Vieuussens, or superior medullary velum
4  Superior cerebellar peduncles
   Premedulcenci, brachium conjunctivum cerebelli, or crus ad cerebrum
7  Lemniscus: mesial and lateral fillets

.817  Metencephalon or pencephalon, epencephal or hindbrain
Pons (Varolii)
1  Cerebellum
11  Lobes, fissures, valv of Tarius, velum medallare posteriori, or kilos
12  Cerebellar centers of grey matter  Nuclei olivaris superiores: roof
   nuclei, dentate nuclei, dentatum, etc.
15  White substance of cerebellum  Arbor vitae
3  Pons Varolii  Tegmentum  For reticula see 611.8236
4  Nuclei of trigeminal 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  Trapezi 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
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<tr>
<td>611.818</td>
<td><strong>Myleencephalon, metencephal, medulla, bulb or afterbrain, postoblongata or medulla oblongata</strong></td>
</tr>
<tr>
<td>1</td>
<td>Pyramids Pyramidal decussion</td>
</tr>
<tr>
<td>2</td>
<td>Dorsal colun, posterior fibers, or funiculi dorsales</td>
</tr>
<tr>
<td>3</td>
<td>Arcuate fibers Restis or restiform body</td>
</tr>
<tr>
<td>4</td>
<td>Fasciculus of Rolando, cuneatus and gracilis</td>
</tr>
<tr>
<td>5</td>
<td>Lateral fibers Oliva or olivary bodies</td>
</tr>
<tr>
<td>6</td>
<td>Anterolateral ground bundle or fasciculus proprius anterolateralis; anterolateral cerebellar tract or fasciculus anterolateralis superficialis</td>
</tr>
<tr>
<td>7</td>
<td>Interolivary stratum, fillet or lemniscus</td>
</tr>
<tr>
<td>8</td>
<td>Fourth ventricle or metepicile</td>
</tr>
<tr>
<td>9</td>
<td>Metapone or foramen of Magendie Foramina of Luschka, Key and Retsius Obex Lingula Calamus scriptorius</td>
</tr>
<tr>
<td>10</td>
<td>Nucleus of glossopharyngeal system Solitary tract</td>
</tr>
<tr>
<td>11</td>
<td>Nuclei of vagus and accessory nerves</td>
</tr>
<tr>
<td>12</td>
<td>Ambiguous nucleus</td>
</tr>
<tr>
<td>13</td>
<td>Dorsal nucleus of vagus</td>
</tr>
<tr>
<td>14</td>
<td>Nucleus of hypoglossal system or hypoglossal nidus</td>
</tr>
<tr>
<td>.819</td>
<td><strong>Meninges and cerebral meninges</strong></td>
</tr>
<tr>
<td>1</td>
<td>Pia mater or pia</td>
</tr>
<tr>
<td>2</td>
<td>Telae choroideae, velum interpositum, choroid plexus</td>
</tr>
<tr>
<td>3</td>
<td>Arachnoid villi</td>
</tr>
<tr>
<td>4</td>
<td>Glandulae Pacchioni, Luschka's villi or granulations</td>
</tr>
<tr>
<td>5</td>
<td>Cisterns, or subarachnoid cisterns</td>
</tr>
<tr>
<td>6</td>
<td>Dura mater, or dura Tentorium and falx cerebelli</td>
</tr>
<tr>
<td>7</td>
<td>Falx cerebri</td>
</tr>
<tr>
<td>.821</td>
<td><strong>Spinal cord, or myel</strong></td>
</tr>
<tr>
<td>1</td>
<td>Enlargements or intumescentia; general structure</td>
</tr>
<tr>
<td>2</td>
<td>Cervical cord or myel, pars cervicalis</td>
</tr>
<tr>
<td>3</td>
<td>Thoracic or dorsal cord or myel, pars thoracalis</td>
</tr>
<tr>
<td>4</td>
<td>Lumbar cord or myel, pars lumbaris</td>
</tr>
<tr>
<td>5</td>
<td>Sacral cord</td>
</tr>
<tr>
<td>6</td>
<td>Terminal cone, or conus (medullaris) Filum Cauda (equina)</td>
</tr>
<tr>
<td>7</td>
<td>Grooves and fissures, sulci and fissurae</td>
</tr>
<tr>
<td>.822</td>
<td><strong>Gray substance or matter, entocinerea or cinerea</strong></td>
</tr>
<tr>
<td>1</td>
<td>Gray cornua or colun</td>
</tr>
<tr>
<td>2</td>
<td>Anterior or ventral colun or cornu or funiculus anterior</td>
</tr>
<tr>
<td>3</td>
<td>Posterior or dorsal</td>
</tr>
<tr>
<td>4</td>
<td>Clarke's colun, nucleus dorsalis or Stilling's nuclei</td>
</tr>
<tr>
<td>5</td>
<td>Gelatinosa or gelatinous matter, substantia cinerea gelatinosa Substantia spongiosa</td>
</tr>
<tr>
<td>6</td>
<td>Reticula or formatio reticularis</td>
</tr>
</tbody>
</table>
White substance, or alba

Anterolateral column
Anterior plus lateral columns

2 Pyramidal tract or bundle or fasciculus cerebrosplinalis
   Direct or uncrurst tract, fasciculus cerebrosplinalis anterior, or
   fasciculus
   Crosst pyramidal tract, or cerebrosplinalis 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 subcommissuralis, or marginal tract of Spitzka and Lissauer

6 Lateral column or anterolateral descending cerebellar tract or column
   of Marchi and Lowenthal

Anterolateral ground bundle or fasciculus proprius anterolateralis

Anterior or ventral commissure

Posterior or dorsal columns
Ascending fibers
Tracts of Burdach (postrolateral or cuneatus) and of Goll
(postromedian or gracilis) and fasciculus of Rolando

5 Descending fibers Comma tract in Burdach's column

8 Radicular fibers

9 Posterior or dorsal commissure

Roots of nerves
Works tracing nerv roots into spinal cord; for macroscopic studies on
nerv roots see 611.832

1 Anterior or ventral roots
Posterior "dorsal"

Spinal canal Ependyma or endyma
Rhomboideal sinus Reissner's fibers

Spinal membranes, or meninges spinales
Spinal pia mater
"arachnoid"
"dura mater

Peripheral nervous system Nervs

Cranial nerves and ganglia

Olfactory, or 1st cranial

Optic, or 2d cranial

Motoroculi, 3d cranial or oculomoto

Trovchei, pathetic, or 4th cranial

Trigeminal, trigeminus, or 5th cranial

Large or great superficial petrosal branch

Ophthalmic nerv of Willia

Superior maxillary nerv or maxillary nerv

Intraorbital branch

Mandibular or inferior maxillary

Abducent. external motoroculi, oculomoto, or 6th cranial

Facial, 7th cranial nerv, or porto dura

Other collateral branches

Terminal branches

Pars intermedia of Wriaberg (nervus intermedius) Chorda tympani

Auditory, acouastic or 8th nerv

Cochlear nerv or path, or central auditory path

Vestibular path or nerv

Glossopharyngeal or 9th nerv

Pneumogastric, vagus or 10th nerv

Parietal branches: auricular and lateral nerves

Pharyngeal branches

Superior cardiac nervs

Superior laryngeal nerv

Inferior or recurrent laryngeal nerv

Pulmonary branches

Esophageal and gastric branches

Spinal accessory or 11th nerv

Hypoglossal or 12th nerv
611.832 Spinal nerves

Including in 5-6 macroscopic studies on nerv roots. See also 611.827

1 Dorsal or posterior branches
2 Ventral or anterior "
5 Dorsal or posterior roots See also 611.827
6 Ventral or anterior " See also 611.827

Cervical nerves

1 Dorsal or posterior branches of cervical nerves Small and large sub-occipital nerves
2 Ventral anterior branches of cervical nerves
3 Cervical plexus
3a Large auricular nerv
3b Cutaneous nerv of neck
3c Supraclavicular nerves
3d Phrenic or internal respiratory nerv o
4 Brachial plexus
4a Supraclavicular part
4b Infraventricular part
5 Median nerv
6 Ulnar or cubital nerv
7 Radial nerv
8 Musculo-spiral
9 Musculocutaneous nerv
9a Antibrachial ulnaris
10 Cutaneous brachii medialis, or nerv of Wisberg

Thoracic nerves

834

Thoracic nerves

1 Posterior branches
2 Anterior " Intercostal nerves

835 Lumbar and sacral nerves

1 Posterior branches
3 Anterior "
4 Lumbar plexus
4a Lumbar plexus
4b Great iliohypogastric nerv
4c Iliinguinal
4d Genitofemoral or genitocrural
4e Lateral or cutaneous nerv of thigh
5 Femoral nerv or anterior crural nerv (femoralis)
5a Middle cutaneous nerv
5b Internal "
5c Muscular branches of posterior division of anterior crural nerv
5d Long or internal saphenous nerv
6 Obturator nerv
6a Accessory obturator, or accessory anterior crural nerv of Winslow
6b Lumbosacral cord
7 Sacral or sciatic plexus
7a Superior gluteal
7b Inferior "
7c Small sciatic nerv (cutaneus femoris posterior)
8 Great sciatic nerv or ischiadicus
8a External popliteal, or peroneous communis or peroneal
8b Sural or lateral cutaneous branch, or cutaneous surae lateralis
8c Musculocutaneous or superficial peroneal
8d Anterior tibial nerv or deep peroneal
8e Internal popliteal or tibial
8f Sural or plantar nervs
9 Genital, pudic or pudendal plexus
9a Collateral branches
9b Pudic nerv

836 Coccygeal plexus Coccygeal nerves
Sympathetic system

Cervical and cephalic part
Superior cervical ganglion
Internal carotid nerve and plexus
Cavernous plexus
External carotid nerve and plexus
Common carotid plexus
Superior cardiac nerve
Middle cardiac nerve
Middle cervical nerve
Inferior cervical nerve
Cardiac plexus

Thoracic part of gangliated cord
Abdominal and pelvic part of sympathetic system
Solar or epigastric plexus or plexus coeliacus

Eye Organ of vision
See also 611.7146 Orbit, including capsule of Tenon

Fibrous coats or tunics of eye
Conjunctiva
Cornea
Sclerotic coat or sclera
Canal of Schlemm Spaces of Fontana

Vascular coats of eye Uveal tract
Iris Pupil
Choroid
Tapetum
Ciliary body, muscle and processes

Retina
Optic disc; macula lutea For optic nerve see 611.8312

Refracting media
Crystallin lens
Zonule of Zinn or zonula ciliaris
Vitreous humor Posterior chamber
Hyaloid membrane Hyaloid or Stillings or Cloquet's capsule
Canal of Petit
Aqueous humor Anterior chamber

Accessory organs of eye
External muscles, musculi oculi
Tear apparatus
Lacrimal gland
Canals and puncta
Sac and nasal duct

Eyelids or palpebrae
Canthi
Eyelashes or cilia
Eyebrows or supercilia

Ear Organ of hearing
See also 611.8318 Auditory nerve

Internal ear
Membranous labyrinth
Cochlea, scala media, or ductus cochlearis
Organ of Corti, or Corti's fiber
Saccule
Utricle
Semicircular canals

Osseous labyrinth
Vestibule, semicircular canals, cochlea, modiolus or columella
<table>
<thead>
<tr>
<th>611.854</th>
<th><strong>Middle ear or tympanum</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Atrium or tympanic cavity proper</td>
</tr>
<tr>
<td>7</td>
<td>Attic</td>
</tr>
<tr>
<td>.855</td>
<td>Mastoid cells</td>
</tr>
<tr>
<td>.856</td>
<td>Membrana tympani, or drumhed</td>
</tr>
<tr>
<td>.857</td>
<td>Eustachian tube or tuba auditiva</td>
</tr>
<tr>
<td>.858</td>
<td>Bones of ear</td>
</tr>
<tr>
<td>.858</td>
<td>Malleus or hammer; incus or anvil; stapes or stirrup; muscles of tympanum, stapedius and tensor tympani</td>
</tr>
<tr>
<td>.858</td>
<td><strong>External ear</strong></td>
</tr>
<tr>
<td>.858</td>
<td>Meatus, pinna</td>
</tr>
<tr>
<td>.858</td>
<td>Organs of smell; olfactory organs</td>
</tr>
<tr>
<td>.858</td>
<td>&quot; &quot; taste</td>
</tr>
<tr>
<td>.858</td>
<td>&quot; &quot; touch and senses in general</td>
</tr>
<tr>
<td>.889</td>
<td>Organa lateralia</td>
</tr>
<tr>
<td>89</td>
<td><strong>Ganglions</strong></td>
</tr>
<tr>
<td>.891</td>
<td>Class ganglions here if separately treated</td>
</tr>
<tr>
<td>5</td>
<td>Semilunar ganglion or Gasserian</td>
</tr>
<tr>
<td>53</td>
<td>Ciliary</td>
</tr>
<tr>
<td>54</td>
<td>Sphenopalatine or Meckel's ganglion</td>
</tr>
<tr>
<td>56</td>
<td>Otic or Arnold's submaxillary ganglion</td>
</tr>
<tr>
<td>7</td>
<td>Geniculate ganglion</td>
</tr>
<tr>
<td>81</td>
<td>Spinal or Corti's ganglion</td>
</tr>
<tr>
<td>85</td>
<td>Vestibular ganglion</td>
</tr>
<tr>
<td>9</td>
<td>Petrosal and superior glossopharyngeal ganglion</td>
</tr>
<tr>
<td>91</td>
<td>Jugular and nodose ganglions</td>
</tr>
<tr>
<td>.893</td>
<td>Ganglions of spinal nerves</td>
</tr>
<tr>
<td>.899</td>
<td>See also 611.83 Spinal nerves</td>
</tr>
<tr>
<td>899</td>
<td>Sympathetic ganglions</td>
</tr>
<tr>
<td>9</td>
<td>For chromaffin tissue see 611.4</td>
</tr>
</tbody>
</table>

| .9     | **Regional anatomy** |
| .91    | Hed |
| .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 |
| .962   | True pelvis |
| .964   | False " |
| .966   | 1 Inlet 2 Cavity 3 Outlet |
| .968   | Position and size |
| .968   | Difference between male and female pelvis |
Upper extremities

- Shoulder or axilla
- Arm
- Elbow
- Forearm
- Wrist
- Hand
- Fingers

Lower extremities

- Hip
- Nates
- Sulcus inguinalis
  1. Hip
  2. Nates
  3. Sulcus inguinalis
  4. Inguinal canal
  5. Crural or femoral canal
- Thigh
- Knee
- Popliteal space
- Leg
- Ankle
- Foot
- Toes
- 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

.011 Notion, definition, nature

.012 Classification, division

.013 Terminology, notation, symbols

.014 Methods

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 heads under this number are better class in their broader relations; i.e. see 577.7 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, 138
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 physiologic 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

Mesology

41 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

3 Static electricity

4 Dynamic electricity

5 Alternating currents

7 Electric measurements

8 Special instruments

1 Electrodes 2 Telephone, microphone 6 Galvanometers

422 Electric resistance Conductability
Electric phenomena of organisms
For electric phenomena of muscles see 012.741, of nerves and muscles see 012.813

1 Theory of electric phenomena
2 Negativ variation
3 Electrotonus
4 Electric phenomena of tissues in repose and in action

4.74 Action of electricity on organisms
Everything concerning effect of electricity on function may be clast here by adding 0 and dividing like 012: e.g. action of electricity on red corpuscles 012.0144440111, as .411 is the subdivision of 012 meaning red corpuscles. Action of electricity on bile 012.0144440357, as .357 means bile

2 Action of static electricity
3 " atmospheric"
4 " dynamic"
5 " alternating currents"

4.75 Death by electric shock; by lightning

4.76 Magnetic action

4.77 Galvanotropism

4.78 Electrotherapy from physiologic point of view

43 Action of heat and cold See also 012.59

4.79 Action of light See also 012.843

4.77 Phosphorescence

4.77 Heliotropism Phototropism
See also 015.831: Phototherapy

45 Action of sound and its vibrations
See also 012.85876

46 Poisons and chemical substances
Poisons and definite chemical substances are preferably clast in 015.7: general toxicology in 015.9. This number is for topics of special physiologic interest

4.71 Effects of water

1 Reviviscence, animals
2 Hydrations
3 Quantity of water in organisms and tissues

4.72 Physicochemical forces

1 Osmosis
2 Molecular concentration in organic fluids Cryoscopy
Subdivisive with 0 like 012: e.g. Cryoscopy of gastric juice 012.014462723232
3 Relation between secretion and osmotic pressure
4 Relation between osmosis and electric action: ions
5 Colloid substances: coagulation, agglutination, etc.
See also 012.598133 Theory of histologic conservation
6 Reaction, acid or alkaline
7 Viscosity
8 Superficial tension
9 Other physicochemical forces

4.73 Action of mineral salts on organisms

4.74 " air, normal and abnormal; of oxygen and ozone
4.75 " anesthetics
4.76 " antiseptics

4.77 Chemotaxis Chemotropism

469 Action of other chemical forces

47 Action of mechanical forces

477 Geotropism

478 Thigmotaxis

48 Other physical forces

481 Various rays
Physiologic effect of X rays:
To express effect of X rays on a specific organ or tissue, add 0 and subordinate like 012; e.g. effect of X rays on sight 012.0144811084

4 Effect on lower organisms

483 Effect of radioactive substances; Becquerel rays

483 Production and action of N rays
Physiologic chemistry in general

1
Ferments
11
Oxidants Reducing ferments
12
Hydrolytic
13
Proteolytic
14
Lipolytic
15
Amylolytic and succrinecletic
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 612.4013
34
Of substances foreign to the normal organism
Elimination of poisons
Most material will be cast under 615.7 and its subdivisions
See also special organs
346
Metabolism of nonnitrogenous substances
347
" crystallizable nitrogenous substances
348
" albuminoids
349
" after death Autolysis
Subdivisible with 0 like 612; e.g. autolysis of the liver
612.01534035
35
Influence of temperature on metabolism
See also 612.50
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

Means of attack and defense
Comparative physiology; usually better cast in 591.57
1
Autotomy
2
Mimicry
3
Physiology of parasites
Comparative 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 comparative zoology are better in 591.1
Form divisions

Compendes
02
Dictionaries Cyclopedias
03
Essays Addresses
04
Periodicals
05
Societies Clubs
06
Study and teaching
077
Vivisection
See also ethics, 179.4, and laws 614.22
08
Polygrafs
09
History
612.1 Blood and circulatory system

.109 History of circulation of blood

.11 General properties of blood

.131 Red corpuscles

1 Chemic composition
2 Hemoglobin and oxyhemoglobin
3 Carboxyhemoglobin
4 Action of CO on blood, carbon monoxide hemoglobin
5 Spectroscopy of blood
6 Methemoglobin and derivatives
7 Hematin or hematoxylin, globin, hemin or Tsch- 
   mann's crystals, hemachromogen, hematoporphyrin
8 Isotony of corpuscles Osmotic permeability
9 Chemical substances in corpuscles
   - Leucithin, urea, cholesterin, etc.

2 Number of corpuscles
   - Technic of counting
3 Volume of corpuscles
4 Formation of corpuscles
   - See also 612.119 Sanguification
5 Action of poisons on corpuscles
   - See also 612.1114 Action of CO on blood
6 Agglutinating substances
7 Hemolytic substances
8 Corpuscles in disease
9 Other red corpuscles than erythrocytes
10 Coloring matters of invertebrate blood
   - e.g. hemocyanin
11 Other similar coloring matters
   - e.g. chlorophyll and derivatives: phytoerythrin

.112 Leucocytes and ameboid cells

1 Chemistry of leucocytes
2 Ferments of leucocytes
3 Influence of leucocytes (lymphocytes) on digestion
4 Movements and irritability of leucocytes
5 Phagocytosis
6 Diaeptosis
7 Effect on coagulation of blood
8 In disease and intoxications Leucocytosis
   - For digestive leucocytosis see 612.112
9 Counting and its technic
10 Numeric relations of white and red corpuscles
11 Varieties Physiologic morphology

.113 Arterial blood

.114 Venous

.115 Coagulation of blood

1 Fibrin Fibrinoplasmin
2 Composition and chemical properties
3 Fibrino-genous and fibrino-plastic ferments
4 Estimating quantity of fibrin
5 Substances modifying coagulation
6 Retarding agents
7 Accelerating agents
Total quantity of blood

Hemorrhage Anemia
Subdivisible with that like 613; e.g. physiologic influence of anemia on kidneys 612.210045 For pathologic effect see 616.245.
618.54

Transfusion
Effect on system receiving transfused blood

Physical and biologic properties of blood

Physical
- Osmotic pressure
  - See also 612.1117 Osmotic permeability
- Effect of various injections
- Viscosity
- Cryoscopy of blood
  - Method of studying isotony and similar phenomena by relative freezing points of solutions

Biologic properties
- Toxins and antitoxins
  - Physiologic effect For chemical action see 612.3988 May be used for those not produced by the blood, e.g. cytotoxins
  - Theory of toxic and antitoxic action
- Toxic and antitoxic action of blood
  - Limited to blood toxins and antitoxins. See also 612.3988
- Specific reaction of blood and albuminoids
  - Blood in legal medicine
  - Natural immunity
- Effect of blood on bacteria
  - Class here physiologic aspect of opsonic theory, opsonins and opsonic index
- Various toxic and antitoxic substances of blood

Varieties of blood in different parts of body

Hematopoiesis or sanguification
See also 612.2113 Formation of red corpuscles

Chemic properties of blood

Reaction and density
- Color reaction Specific gravity

Carbohydrates in blood
- Glucose
- Glycogen
- Glycolytic ferments

Fats, lipoids, cholesterol, saponin, glycerin

Albumins and albuminoids Uncrystallizable nitrogen compounds
See also 612.39812 Blood serum

Crystallizable nitrogen compounds
- Staining substances of serum

Mineral salts

Blood gases
- Technic for determining quantity
- Oxygen
- Carbonic acid

Ferments

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 measuring 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 measuring
   .16  Pulse
       For dicrotic pulse see 616.071 Pulse in diagnosis
       See also 612.134 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  Cardiography
       3  Valvs  System of valv closure
       5  Hart sounds
       56  "  "  in disease
       7  Action of abnormal hart: misplaced or malformed
   .172  Hart as a muscle
       Cardiac irritability, contractibility and physiologic morphology
       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 morphology
       61  Conduction of stimulation
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Subtopics</th>
</tr>
</thead>
<tbody>
<tr>
<td>612.173</td>
<td>Work of the heart</td>
<td>Chemic, dynamic and thermic phenomena</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chemic composition of heart</td>
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Working ration for man
" " " animals
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Starch Inulin
Glycogen
Cellulose
Gums and analogs: dextrin
Monosaccharides: glucose, mannose, galactose, fructose, etc.
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Combined carbohydrates
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Chitin
Glycosids: amygdalin, salicin, phlorizin, saponin, etc.
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Alcohol in tissues
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4. Products of fats

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11. Adiposity

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13. Cholesterol

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1. Chemic composition

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3. For eg albumin see also 612.39283

4. Blood serum and other serous fluids of body

5. See also chemical properties of blood, 612.734 Albuminoids

6. Simple albuminoids

7. Albumin

8. Globulins: fibrinogenic and fibrinolytic substances, myosin, etc

9. Coagulated albuminoids Fibrin Coagulation of albuminoids

10. Albuminoids as acids or bases

11. Nucleoalbumins, simple phosphorated albuminoids

12. Protamins

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14. Other albuminoids

15. Proteids

16. Albumin + a complex organic compound

17. Nucleoproteids

18. Albumin + nucleic acid, products of nucleic acid and spec.

19. ferments

20. Hemoglobin and analogs

21. Albumin + an iron compound. See also 612.13111

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25. Vegetable albuminoids

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32. Proteamninc nucleus. See also 612.398138

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34. Urea. Uric acid. See also 612.6512, 612.65125, 612.39815

35. Ammonia and ammoxia compounds

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" glands " circulation and blood
" " nutrition " glands

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   11 Reaction
   12 Density
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   174 Staining reactions
   175 Spectroscopic examinations
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361 Bases  Xanthin bases  See also 612.398195
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22. Urin in albuminuria  Albuminuria in general
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24. Uremia  See also 616.638

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61. Acetonuria  Acidosis

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11. Micturition

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Hypophysis or pituitary gland

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Effect of respiration

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.601 Spontaneous generation
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.602 Transplantation Animal grafting
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.603 Citrification Regeneration
May be divided by organs; e.g. 612.60344 Regeneration of thyroid 612.60384 eye

.604 Reproduction of lower organisms
Protozoa, etc.
1 Asexual: fission, division, gemmation or budding or sprouting
2 Sexual: conjugation or concrescence
5 Variations: alteration of generations or metagenesis, pedogenesis, parthenogenesis

.605 Morphogenesis in general Heredity
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.609 Theory of evolution Natural selection and darwinism
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2 Physiology of spermatozoa
3 Testicles as internal glands Interstitial cells

.617 Appendages of male organs: seminiferous ducts, seminal vesicles

.62 Female functions of generation Ovulation
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.621 Physiology of ovaries
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.627 Physiology of uterus
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2  Sugars
3  Fats  Butter
14  Albuminoids
16  Mineral substances
17  Lactic fermentation  Milk ferments
171  Milk curdling ferments  Coagulation of milk
18  Other constituents
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31  Quantity
32  Formation of sugars
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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

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.72 Vibratil cilia

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3 Tetanic contraction

4 Tonic contraction

5 Influence of chemic substances on muscles

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2 Change of volume of muscle

3 Muscle wave

4 Elasticity of muscle

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6 Muscular irritability Influence of blood

5 Circulation in muscles

6 Effect of stimulation

7 Latent period
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8 Muscle murmur

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1 Chemic phenomena after death: autolysis

.743 Electric phenomena of muscles

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5 Relations between work and heat
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4 Tremors  Shuddering
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2 Cartilage
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-.753 Growth, cicatrization and regeneration of bone

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-.761 Chronofotografy: technic

-.763 Special movements  Combined movements
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-.766 Human locomotion
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-.767 Animal locomotion  Special organs of locomotion
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-.768 Flight

-.769 Biologic adaptation of movement

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-.771 Electric animals

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-.78 Voice and speech
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-.782 Movements and innervation of larynx
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-.784 Singing  Timbre, quality  Voice register

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-.788 Larynx of birds
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2  Innervation of organs of speech    Aphasia
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4  Ventriloquism
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2  Absorption of fats
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3  Elimination of poisons by sweat
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Whenever possible class according to function rather than according to a particular nerve, classing here only special nerve physiology

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2 2d pair: optic
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3 3d pair: motor or oculomotor
31 Innervation of iris
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32 Innervation of eyelids
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33 Innervation of eye muscles
4 4th pair: trochlear or pathetic
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78 Pathology Facial paralysis
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2 Time of reaction to stimulation Psychometry
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32 Instincts of animals Behavior See also 591.51
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49 See also Therapeutics, 615.96 Cerebral poisons
50 Alcohol
51 See also Therapeutics, 615.904 Alcohol as cerebral poison
52 Pathology 616.86 Alcoholism
5 Effect of disease on intelligence
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71 Hypnotism See also 134 Mesmerism, Hypnotism
73 Theories of sleep
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24  Localization in man
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.851 External ear: functions

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.855 Tympanic membrane or drumhead Tympanum

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1 Conduction of sound in internal ear

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3 Semicircular canals
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4 Cochlea Corti’s organ or fibers Spiral organ

5 Acoustic nerve

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76 Sensibility of living beings to sound and vibrations Otocysts

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.875 Function of lingual nerve
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.896  Action on eyes; iris
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.897  Action on heart
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.899  Effect on blood vessels
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.02, Compendia; .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, 614.8.

.11 Climate. Acclimation. See 551.5, Meteorology; 685.84, Therapeutics; 614.41, Geographical distribution of disease.


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.13 Seasons. Time of Day.


.15 Purification of Air.

.16 Special Influences. Ozone, Electricity, etc.

.17 Quantity of Air Necessary.

.18 Temperature. See also 551.12, Heat; 551.52, Meteorology.

.19 Sunlight.

.2 Food. Dietetics.

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.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, enemas, forced alimentation, etc.


.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; 615.70, Therapeutics.

.39 Other Beverages.
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- Cold. For Swimming, see 796.
- Douche or Shower.
- Sea. Salt.
- Hot Air. Turkish. Russian. Roman, etc.
- Public.

Clothing.
1. Material. wool, cotton, etc.
2. Quantity.
3. Cleanliness.
4. Pressure. Corsets, garters, tight boots, support from hips, etc.

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5 Human Habitation and Resort.
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These subjects, partly Public and partly Private Hygiene, are for convenience grouped together here.

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- Hotels.
- Tenements.
- Churches. Theaters. Halls, etc.
- Hospitals. Asylums.
- Prisons. Reformatories.

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2. Curtains. Tapestries.
5. House Cleaning.

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- Over-hours. Over-work.
- Occupations made injurious.
- By Inhalation of Vapors and Gases.
- Bleachers, match-makers, lard refiners, etc.
- By Inhalation of Dust or by Absorption.
- Grinders, stone-cutters, millers, wool operatives, hair pickers, type founders, grocers, etc.
- By Elevated, Low, or Variable Temperature.
- Bakers, forgers, mariners, fishermen, farmers, laborers, etc.
- 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.
- Machinists. quarrymen, caisson-workers, manufacturers of explosives, etc.
- Military Hygiene. Barracks, Camp and Tent Life.
- Naval Hygiene. Ship Life.
- Hygiene of Travel and Exploration.
Hygiene of Recreation and Sleep.

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For Curative gymnastics, see 613.83, Massage.

Athletics and other Muscular Exercise.
See also 795.6, Out-door sports.

Training and Overstrain. See also 371.75, Championship games.

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Transmitted Disease.
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Stirpiculture.
614  Public Health.

02. Compendia; 03. Dictionaries, Cyclopedia; 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.

.2  Registration and Vital Statistics. See 312, Population.

.11  Births and Birth-rates.

.12  Deaths and Death-rates.

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.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.

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.14  Mortality of Sexes, Races, etc.

.141  " " the Sexes.

.142  " " Males.

.143  " " Females.

.144  " " Races, Colored, White, Indian, etc.

.145  " " City and Country.

.146  " " Different Occupations. See also 614.6.

.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 174.4, Ethics.

.23  Expert Testimony and other Medico-Legal Relations. See 340.6, Medical Jurisprudence.

.24  Registration of Physicians, Dentists, Pharmacists, etc. License to Practice.

.25  Regulation of Medical Practice. See 174.4, Professional Ethics, Physicians.

.26  Quackery and Malpractice.

.27  Nostrums and Patent Medicines. See also 614.353, Adulterations.

.28  Sale of Poisons. See 615-9, Toxicology.

.29  Medical Police.

.3  Adulterations. Inspection of Articles Liable to Affect Public Health. Public analysts. State laboratories. For chemical analysis see 543.

.31  Inspection of Food. For chemical analysis see 543-1; Hygiene, 613-8.

.311  Sugars. Syrups. Confectionery.


.313  Lards. Fats. Oils. See 614.325-6, Butter, Oleomargarine.

.314  Spices. Condiments.


.316  Vegetables. Fruits. (Fresh.)

.317  Meats. Fish. (Fresh.)

.318  Canned or Preserved Food. Vegetables. Fruits.

.319  Meat. Fish. Oysters. (Preserved.)

.32  Milk and Milk Products.

.321  Milk Analysis. See also 543-1, chemistry.

.322  Milk of Known Purity.

.323  Milk as Sold to Consumer.

614.255 Butter and its Imitations.
614.26 Oleomargarine.
614.27 Cheese and its Imitations.
614 Other Articles of Food.
614.34 Inspection of Beverages. For chemical analysis see 543.11, Hygiene, 613-49.
614.34 Fermented.
614.342 Wine.
614.343 Brewed.
614.344 Beer.
614.345 Distilled.
614.346 Fruit Drinks. Lemonade, Shrub, etc.
614.348 Mineral Waters. Soda Water. See also 613.38, Hygiene; 615.70, Therapeutics.
614.349 Mixed Drinks.
614.35 Inspection of Drugs. For chemical analysis see 543-4.
614.351 Official or Pharmacopoeial Drugs.
614.352 Non-official Drugs.
614.353 Empirical or Patent Medicines. See also 614.27, State control.
614.354 Cosmetics.
614.355 Poisonous Cosmetics.
614.36 Inspection of Tobacco.
614.37 Inspection of Pigments, Wall and other Papers, Textile Fabrics, Toys, etc.
614 Contagious and Infectious Diseases. General.
614.4 Causes and Origin. See 525.95, Bacteria, Microbes; 616.01, Germ theory of disease.
614.42 Geographical Distribution. Climatology.
614.43 Modes of Propagation and Communication.
614.44 Prevention and Restriction. See Ambulances, 614-88.
614.45 Isolation, Lazarettos, etc.
614.46 Quarantine, etc.
614.61 Maritime Quarantine.
614.62 Inland "
614.63 Control of Rags, etc.
614.47 Protective Inoculation.
614.471 Against Small-pox. See also 616.918, Pathology.
614.472 Variolation.
614.473 Vaccination.
614.475.1, Bovine Vaccination; .2, Humanized Vaccination; .3, Vac-
614.475 cinal Syphilis; .4, Re-vaccination; .5, Vaccination; .6, Re- 
614.475 vaccination; .7, Retro-vaccination; .8, Compulsory Vaccination; .9, Optional Vaccination.
614.474 Anti-vaccination.
614.475 Against Cholera. See also 616.952, Pathology.
614.476 " Yellow Fever. See also 616.958, Pathology.
614.477 " Hydrophobia. Pasteurism. See also 616.953, Pathology.
614.48 Disinfection. Houses, Clothing, Rags, Workshops, Cars, Ships, Camps, Air, Soil, P
614.482 Persons, Sewers, Vaults, Excreta. Dead, see Embalming, etc., 614.64.
614.481 Fumigating and other Apparatus. 1, Stationary; 2, Portable.
614.483 Treated with reference to Public Health. See also Materia Medica 615.777 & 615.778.
614.483 Heat.
614.484 Chemical Disinfectants.
614.485 Carbolic.
614.486 Salicylic.
614.487 Chlorides.
614.488 Copperas.
614.489 Epidemics. Plagues.
### 614.5 Contagious and Infectious Diseases. Special.

These heads are for Public Health discussions only. For treatment, etc., see Pathology, 616.

- **51** Filth Diseases.
  - **511** Typhoid or Enteric Fever.
  - **512** Diphtheria.
  - **513** Diarrhoal Diseases.
  - **514** Cholera.
  - **515** Cholera-infantum.
  - **516** Dyentery.
  - **517** Diarrhoea.
- **52** Exanthemata.
  - **521** Small-pox.
  - **524** Scarlet Fever.
  - **523** Measles.
  - **524** Rötheln.
  - **525** Chicken-pox.
  - **526** Typhus.
- **53** Malarial Fevers.
  - **531** Intermittent Fever.
  - **532** Remittent Fever.
- **54** Other Contagious and Infectious Diseases.
  - **541** Yellow Fever.
  - **542** Phthisis.
  - **543** Whooping-cough.
  - **544** Mumps.
  - **545** Puerperal Fever. See also 618.
  - **546** Leprosy.
  - **547** Syphilis.
  - **548** Gonorrhea.
- **55** Parasitic Diseases.
- **56** Diseases Communicated from Lower Animals.
  - **561** Anthrax. Charbon.
  - **562** Trichiniasis.
  - **563** Hydrophobia.
  - **564** Glanders.

### 6 Disposal of the Dead.

See 393, Customs. Treatment of the dead.

- **61** Burial.
  - **611** Earth-burial.
  - **612** Tomb-burial.
- **613** Burials in Churches. Intra-mural.
- **614** Use of Perishable Coffins.
- **62** Cremation. Crematories.
- **63** Transportation of the Dead.
- **64** Embalming and Disinfection of the Dead. Use of Ice.
  
  See 614.48, Disinfection; 615.77, Disinfectants.
- **65** Effect of Cemeteries on Health.
  - **651** By Water Pollution.
  - **652** "Air"
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.
72 Air Pollution by Noxious Gases, Mineral Trades, Chemical Works.
731 Carbon Compounds.
732 Carbonic Oxid, Carbonic Acid, Carburetted Hydrogen.
733 Illuminating Gases. Gas Works.
734 Mineral Oil Refining.
735 Sulfur Compounds.
736 Chlorin.
737 Nitrogen.
738 Phosphorus.
739 Other.
74 Air Pollution by Vegetable Trades.
741 Brewing.
742 Distilling.
743 Vinegar Making.
744 Sugar Refining.
745 Charcoal Burning.
746 Varnish Making.
747 Air Pollution by Animal Trades.
748 Slaughter Houses. Abattoirs. Fish.
750 Pork Packing. Lard Refining.
751 Soap Making.
752 Tanning.
753 Glue Making.
754 Lampblack.
758 Commercial Fertilizers.
75 Storage and Handling of Noxious and Offensive Materials.
76 Other Air Pollutions. See 628, Sanitary engineering.
761 Stables. Stable Manure.
762 Hog Styes.
763 Offal. Dead and Diseased Animals and Fish.
765 Sewers and Sewer Outlets. Sewer Gas.
771 Analysis of Soils. See 543.7, Chemistry.
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 Height of Buildings and Proportion of Occupiable Area.
See 614.85, Building laws.
614.8 Protection of Human Life from Accidents, Casualties, etc. See 613.66 Hygiene of employment.

31 Drowning.
311 Rescue of the Drowning.
312 Resuscitation of the Drowned. First Help.
32 Suffocation.
   By gases, in vaults, mines, etc.; see 623.8, Mining dangers. By illuminating gases.
33 Explosions.
331 Manufacture and Storage of Explosives and Combustibles. See 662, Chemical technology.
332 Gunpowder.
333 Dynamite, etc.
334 Inspection of Kerosene, etc.
335 " of Illuminating Gas.
336 " of Electric Apparatus.
337 " of Steam Boilers.
34 Fires.
341 Fire Prevention.
342 " Detection.
343 " Extinction. See 350-3, Fire Department.
344 Automatic.
345 Chemical Extinguishers.
346 Fire Engines. Water Towers. See 621.68, Pumping engines.
347 " Escapes and Other Apparatus.
348 " Exit, etc., from Public Buildings.
36 Protection of Travelers.
361 Travel on Land.
362 " on Highways.
363 " Railroads.
364 Travel on Water.
365 Light-houses, Buoys, etc.
366 Pilots.
367 Boats, Life-preservers, etc.
368 Rescue of Shipwrecked. Life-saving Service.
37 Exposure to Cold. Hospice of St. Bernard.
38 Aid to Injured.
381 Ambulance.
382 Ambulance for Contagious Diseases. See also 614.44.
383 " The Bed Wagon."

39 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 614.98.
94 Care and Housing of Animals.
95 Feeding of Animals.
96 Transportation of Animals.
97 Methods of Slaughtering.
971 Painless Extinction of Animal Life.
Materia Medica and Therapeutics.

.09, Compenda: .05, Pharmaceutical Journals; .06, Pharmaceutical Societies; .07, Education, Schools of Pharmacy; .09, History.

.1 Materia Medica. Drugs.
For examining boards, laws, etc., see 614.74, Registration of Pharmacists. See also 614.35, Adulteration of drugs; 543.4, Chemical analysis.

.11 Pharmacopoeias.
.12 Dispensatories.
.13 Formularies.
.14 Prescription writing. Posology.

.2 Inorganic Drugs.
Divided like 546. 615.218, Phosphorus; 615.838, Mercury; 615.972, Iron.

.3 Organic Drugs.
.31 Carbon Compounds. Divided chemically like 547.
.32 Vegetable Products. Divided botanically like 580.
.33 Vegetable Products. Divided by character.

.34 Fixed Oils and Acids.
.35 Ferments. Diastase, Pepsin, etc.

.4 Practical Pharmacy.

.5 Therapeutics. Action of Medicines in General.
.51 Certainty of Medicines.
.52 Antagonism of Medicines.
.53 Law of Similars. Homeopathy.
Homeopathic works are classed 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 Medicines.
.61 By Stomach.
.62 " Rectum.
.63 " Subcutaneous tissue. Hypodermic medication.
.64 " Lungs. Inhalation. See also 613.35, Absorption.
.65 " Veins. Transfusion of blood.
.66 " Serous and Mucous Membranes. Peritoneum, Vagina, etc.
See also 612.35, Absorption.

.67 " Skin. Baths. See also 612.34, Absorption.

.7 Medicines grouped by Effects.
Treatises on specific drugs, Digitalis, Ergot, etc., are classed in the divisions of Materia Medica, 615.1, 615.2; Iron, 615.972; Digitalis, 615.328.

.71 Drugs acting on Circulatory System.
.711 Stimulants.
Alcohol, Ammonia, Digitalis, Coffee, Ergot.

.716 Depressants.
Aconite, Veratrum group, Nitrates.

.72 Drugs acting on Respiratory System.
.721 Expectorants.

.726 Errhines. Sneezing.
Drugs acting on Digestive System.

Emetics.
Ipecac, Mustard, Metallic Salts, Apomorphin.

Cathartics.

Anthelmintics.

Aids to Digestion.

Demulcents, Emollients, etc.
Bismuth, Oxalate of Cerium, etc.

Drugs acting on Glandular System.

Sialagogae. (Salivm.)
Cholagogae. (Bile.)
Diaphoretics. (Perspiration.)

Pilocarpin, Heat, Exercise.

Antipyretics. Antiperiodics.
Quin, Salicylates, Coal-tar products, Kairin, Antipyrin, Antifebrin, Cold, Baths. See also 613.41, Baths.

Drugs acting on Genito-Urinary System.

Diuretics.
Water, Citrates, Acetates, Digitalis, Caffein, Copaiba.
Uterines. Oxytocics.

Viburnum, Ergot, etc.

External Agencies.

Irritating.
Astringents.
Rubefacients.
Epistaxis. Blisters.
Escharotics. Caustic potass.
Protective. Emollient.

Fats, Oils, Powders, Starch, Bismuth, Oxid of Zinc.

Deodorants. Disinfectants. See 614.48, Disinfection; 614.64, Disinfection of dead.

Antiseptics. Germicides.

Drugs acting on Nervous System. See also 613.95, Neurotic Poisons.

Anesthetics. Chloroform, Ether.

Hypnotics. Chloral, Bromida.

Analgesics. Opium.

Mydriatics. Belladonna.

Excitants. Strychnin.

Depressants. Conium.

Other Drugs.

Camphor, Valerian, Asafoetida.

Mineral Waters. See also 613.38, Hygiene; 553.7, Occurrence in nature.

Other Remedies.

Mechanical Remedies.


Setons and Issues.

Bandages. Ligatures.

Acupuncture.

Pneumatic Aspiration.

Manipulation. Massage. Osteopathy.

See also 613.71, Gymnastics.
615.83 Imponderable Remedies.
631 Light. Blue glass.
633 Moisture.
634 Climate. See also 613.1, Hygiene.
635 Altitude.
636 Pneumatic Differentiation.
637 Music.
84 Electricity. Electro Therapeutics. See also 537.87 and 691.3915.
85 Cures.
851 Mind Cure. Influence of mind on body. See also 730, Mind and Body.
853 Water Cure.
854 Food Cures. Grapes, Milk, Beef, etc.
855 Thomsonianism. Herb Doctors.
856 Perkinism. Metallic Tractors.
86 Patent Medicines.
87 Ancient and Medieval Remedies.
88 Including those of modern uncivilised peoples.
.9 Toxicology. Poisons.
For detection of poisons, see 543.5; Sale of poisons, 614.68; Poisoned wounds, 617.148.
91 Irritant Poisons.
92 Mineral Irritants.
921 Acid Poisons.
922 Alkaline Poisons.
923 Non-metallic 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. See also 615.531, Drugs.
929 Copper. See also 615.256, Drugs.
93 Vegetable Irritants.
93 Hellebore, Aloes, Croton oil, etc.
94 Animal Poisons.
94 Cantharides, Diseased meat, Ptomains, Tyrotoxicon, 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.
97 Nux vomica, Strychnia.
98 Cerebrospinal Poisons.
98 Aconite, Belladonna, Lobelia.
99 Cerebrocardiac Poisons.
99 Digitalis, Tobacco.
Pathology. Diseases. Treatment.

May be subdivided by a 0 or 1, if wished. 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, Tongue; 3, Eye, Skin, etc.; 4, Auscultation, Percussion; 5, Thermometry; 6, Chemistry, Urine analysis; 7, Microscopy; 8, Pathological anatomy; 9, Post-mortem examination.

Diseases of the Circulatory System.

Membranes of the Heart.

Heart. Angina Pectoris.

Arteries.

Veins.

Blood.

Diseases of the Respiratory System.

Croup; Hay Asthma, Hay Fever; Influenza, Epidemic Catarh; Whooping Cough, see also 616.053; Coryza, Catarh; Asphyxia.

Nose. Naso-pharyngeal Space.

Larynx.


Lungs.

Pneumonia, Lung Fever, Congestion; Hemorrhage; Abscess; Gangrene; Phthisis, Consumption, see also 614.542; Embolism and Aneurism of Pulmonary Artery; Emphysema; Collapse.

Diseases of the Digestive System.

For diseases of teeth see 617.6.

Mouth. Tongue. Fauces.—Sore Throat. Quinsy. Mumps. See also 614.544.

Pharynx. Oesophagus.

Stomach.—Gastritis. Dyspepsia. Vomiting.


Rectum. Anus.—Piles.

Liver. Gall-Bladder.—Jaundice.

Pancreas.


Dietetic Diseases.


Diseases of the Lymphatic System.

Spleen.

Lymphatics. Thoracic Duct.

Thymus.

Thyroid Body. Gland.

Suprarenal bodies.

Dermatology. Skin Diseases.

Inflammatory Affections.

Diffuse, papular, scaly, Nettlerash. Hives.

Catarhal, Vesicular, Pustular. Eczema. Shingles. See also 614.561.

Disorders of Sebaceous Glands.

Hypertrophies. Atrophiae.


New Formations. Pigmentary Changes.

Albinism. Freckles.

Disorders of Sweat Glands.

Parasitic Diseases. See 616.06. Parasitic Diseases.

Other Skin Diseases.

Diseases of the 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.

Diseases of the Organs of Locomotion.

71 Bones (except spine).
72 Joints (except spine).
73 Spine.—Curvature.
74 Muscles.
75 Tendons. Fasciae.
76 Bursa. Sheaths of Tendons.
77 Connective Tissue.

Diseases of Nervous System.

81 Diseases relating to Cerebro-Spinal Circulation. Apoplexy.
82 Diseases relating to Cerebro-Spinal Meninges.
83 Structural Diseases of Brain and Cord.
84 Functional Diseases of Brain and Cord.
   For Inanity see, 132.1.

85 Neuroses.
   1. Chorea, St Vitus's dance; 2. Hysteria, see 133 Somnambulism, 132.4.

86 Neuroses due to special Poisons.
   1. Alcoholism, see also Diprosopus, 132.7; 2. Metallic Tremor.

87 Diseases of Nerves.—Neuralgia. Cramp.

88 Diseases of Sympathetic System.

General Diseases.

91 Infectious Diseases.
   1. Eruptive Fevers; 2. Small Pox, see also 614.473 and 614.471.5, 3. Caw Pox; 4. Chichim Pox, see also 614.471; 5. Measles, see also 614.471; 6. Rubella, see also 614.567.
   7. Scarlet Fever, Scarletina, see also 614.528.

92 Other Fevers. General Works on Fevers. See 628.57, Animal Heat.

   1. Diphtheria, see also 614.512; 2. Asiatic Cholera, see also 614.473 and 614.512; 3. Sporadic Cholera; 4. Epidemic Diarrhoea, see also 614.512; 5. Dysentery, see also 614.512; 6. Malarial Fever, see also 614.55.

94 Septic Diseases.

95 Venereal Diseases. Hydrophobia, etc.
   1. Syphilis, see also 614.527; 2. Gonorrhoea, see also 614.548; 3. Hydrophobia, see also 614.477 and 614.563; 4. Glanders, see also 614.564; 5. Horse pox; 6. Splenic fever.
Parasitic Diseases. See also 614.55.

Animal Parasites. See 591.69, Economic Zoölogy; 614.92, Parasites of animals.

Entozoa.

Trematoda. Plukes.

Cestoda. Tape-worms.

Nematoda. Round worms, Thread worms, Trichinæ. See also 614.502.

Acanthocephala. Thorn-headed worms.

Insecta parasitica. Maggots.

Ectozoa.


Vegetable Parasites. See 581.69, Economic Botany.

Effects of Poisons. See 615.9, Toxicology.

Effects of Injuries and Climate.


Other General Diseases.

Rheumatism, Rheumatic Fever. Gout.

Tumors.

Non-malignant. Cysts. Wens.

Malignant. Cancer.

Tubercle.

Scrofula. Rickets.

Myxœdia. Cretinism.

Leprosy. See also 614.446.

Surgery

May be subdivided by 0 like 610, if wished.

Injuries.

Burns and Scalds.

Lightning and Electric Shock.

Contusions and Abrasions.

Wounds.


Fractures.

Dislocations.

Sprains.

Asphyxia.

Results of Injuries.

Constitutional effects and other complications. See also 616.94, Septic diseases.

Shock.

Inflammation.


Ulcers. Sores.

Mortification. Gangrene.

Traumatic Fever.

Tetanus. See also 616.834.
Orthopedic Surgery. Deformities.
For convenience the whole subject of deformities is classed here, though many of them have no surgical treatment. See also 573.8, Dwarfs and Giants; 573.9, Monstrosities; 617.91 Congenital defects.

Incomplete Development or Growth.
Divided like 611, Anatomy.

Incomplete Coalescence of Parts. Harelip.

Coalescence of Parts.

Extension of Commissure (Apparent Duplication).

Coalescence of Fetuses. Siamese Twins.

Supernumerary Parts or Organs. Extra Fingers or Toes.

Disproportionate Growth of Parts.

Transposition or Displacement of Parts.

Congenital Distortions, including Talipes, Club Foot.

Surgical Operations.

Circulatory System.

Respiratory System.

Digestive System.

Glandular and Lymphatic System.

Genito-Urinary System.

Motor and Integumentary System.

Nervous System.

Regional Surgery.

Head. Trephining.

Face. Mouth. See 617.6, Dentistry; 617.7, Eye; 617.8, Ear.

Neck. Throat.

Chest.

Abdomen.

Pelvis.

Upper Extremities. Artificial Arms, Hands, etc.

Lower Extremities. Artificial Legs, Feet, etc.

Dentistry. Diseases of Teeth.

Diseases of Dental Pulp.

Diseases of Dentine and Cementum.

Diseases of Dental Periosteum.

Malposition and Malformation of Teeth.

Odontalgia. Toothache.

Extraction of Teeth.

Stopping Teeth.

Transplanting Teeth.

Artificial Teeth.


Optic Nerve. Retina.


Eyelids.

Orbit and Neighboring Parts.

Artificial Eyes.
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.

Operative 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.

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.98

.99 Military Surgery.

Diseases of Women and Children. Obstetrics.

Gynecology. Diseases of Women.

.1 Ovary.

.12 Fallopian Tube.

.13 Periuterine Diseases.

.14 Uterus and Cervix.

.15 Vagina.

.16 Vulva.

.17 Functional and Symptomatic Disorders.

Diseases of Menstruation. Leucorrhea. Sterility.

.18

.19 Diseases of Breast.

Obstetrics.

.21 Pregnancy. Physiology.

.22 Diagnosis. Signs of Pregnancy.

.23 Duration.

.24 Hygiene. Management.

.25 Multiple Pregnancy. Twins, etc.

Pathology of Pregnancy.


.31 Ectopic Gestation. Extra-uterine Pregnancy.

.32 Pathology of Ovum.

.33 Death and Retention of Fetus.

.34 Pathology of Fetal Appendages.

.35 Decidua.

.36 Placenta.

.37 Amnion.

.38 Umbilical Cord.


See 173.4, Infanticide; 340.6, Medical jurisprudence; 343, Criminal law.
618.4 Parturition. Labor. Physiology.

-41 Mechanism of Labor.
-42 Presentations. Positions.
-43 Clinical Course and Phenomena.
-44 Conduct of Normal Labor. Management.

5 Pathology of Labor.

-5 Abnormal Labor from Faults
  of Powers. Anomalies of Expellent Forces.
-52 of Passages. Mechanical Obstacles to Expulsion of Fetus.
  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 616.543, Public health.
-73 Metritis. Peritonitis, see also 616.38. Cellulitis.
-74 Septicæmia, see also 616.944. Pyæmia, see also 616.943.
-75 Convulsions. See 616.845, Eclampsia.
-76 Puerperal Mania. See 133.1, Insanity.
  See 616.14, Diseases of veins.
-78 Other Puerperal Affections.
-79 Sudden Death after Delivery.

8 Obstetric Operations.

-81 Application of Lever and Forceps.
-82 Version.
-83 Embryotomy.
-84 Dilatation of Os and Cervix.
-85 Symphysiotomy.
-86 Cesarian Section.
-87 Removal of Placenta.
-89 Intra-uterine Injections. Antiseptics in Midwifery.


619 Comparative Medicine. 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 engines or motors
.3 Electric engineering
.4 Air and gas engines and other motors
.5 Pneumatic machinery Refrigerating machines
.6 Blowing and pumping engines
.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 roads
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
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.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 620.11.

For theory or mechanics of structures see 624; for theories of construction of buildings see 690.1

.111 General
This 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 bed 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 630.11246 Repeated stress
4 Tension, compression, torsion, flexure, shearing
   Class here combined tests as well as general works covering these tests
   If wish, subdivide farther as follows:
41 Tensile tests
42 Compression tests
43 Torsion
44 Flexure (transverse) tests
45 Shearing tests
46 Repeated stress tests
47 Impact Repeated shock tests
48 Crystallisation 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, built 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 Hawser
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 building material.
   In engineering it is an accessory material not requiring a place under strength
tests
15 Masonry adhesives
   Cement, mortar, plaster of paris, etc. See also building 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 Compends Handbooks Kent, Trautwine
3 Dictionaries, encyclopedias
4 Essays
5 Periodicals
6 Societies
7 Study and teaching Instruments
8 Tables and calculations
9 History of engineering
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 engin. General energy considerations
  Steam economy
  General
  Expansion, entropy; extension of expansion approaching vacuum (condensers)
superheating, cylinder condensation, jacketing, etc. For
condensers, superheaters, etc. see 621.197

.II Mechanism of steam engin Design of engin parts

.III General

.II2 Types of engins: structural
  Reciprocating engines in general. Types specified below are all reciprocating,
except 1 Primitiv and 9 Other
  1 Primitiv
  2 Single acting
  22 Double acting
  3 According to transmission of motion
     32 Direct connected
     33 Indirect: beam connected
  4 According to position
     43 Horizontal
     44 Vertical
     45 Oscillating
     46 Inclined
  5 According to terminal pressure
     53 Condensing
     In early period called 'low pressure'
     55 Noncondensing
     In early period called 'high pressure'
  6 According to expansion
     61 Single expansion
     62 Compound
     63 Double expansion; cross compound
     64 " tandem "
     65 " angle "
     66 Triple expansion
     67 Quadruple expansion
  9 Other types
  95 Steam turbins
     Better clast 621.165
  96 Rotary engines
     Better clast 631.166

.II2 Marine engins
For propulsion see 623.8 Naval architecture

.II21 General
See also 621.11 and 621.18

.II22 Types of marine engins
  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

.II23 Marine steam turbins
See also 621.105
Locomotives

.131 Theory of the locomotive

- Adhesion  Tractive force  Horsepower

.132 Types

Variations modifying tractive force and speed, and affecting more than 1 class of mechanism. For variations in steam apparatus (oil burning locomotives, etc.) see 621.133 and 621.134

- Primitiv forms

- Types according to distribution of wheelbase and load

Express by Whyte nomenclature for wheel combinations

- Types according to purpose

- Freight or goods engines  Hog engine
- Yard, switch or shunting engines
- Passenger engines
- Mountain
- Mining
- Other special locomotives

- Peculiar types

Combined 'engine and coach wagon'

- Types in different countries

Subdivided like 940-999; e.g. English locomotive 621.13949

.133 Locomotive boilers  Production of steam

Better class in 621.1823, as boilers of locomotive type serve many other purposes. For boiler management see 621.195

- Combustion  Fuels  Petroleum  Fuel consumption

See also 621.1827

- Grate and ashpit  Firebox  Stays

See also 621.1825

- Shell and tubes

- Smokebox and stack  Spark arresters

See also 621.1828

- Exhaust pipe

- Dome

- Miscellaneous fittings

Gage cocks, safety valves, whistles, pumps, injectors, etc.

.134 Engine of the locomotive

- Driving mechanism  Cylinders, pistons, rods

- Steam distribution  Valves and valve gears

- Special types of valves and valve gear

- Compound principle

- Distribution in compound locomotives

- Lubrication of locomotive

- Other parts of locomotive: throttle, etc.

.135 Running gear

.136 Tenders

- Design, weight, brakes, etc.

- Appliances

- Taking water without stopping; track tanks; water scoops

.139 Miscellaneous parts

Cowcatcher or pilot, headlight, whistle, bell, sandbox
621.14 Traction engines  Road locomotives
Self-propelling 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. locomotives (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 fixed position either temporarily (621.15) or permanently (621.16)

Theory  General

141 Boilers
Better class in 621.1843; 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 fixed position when working. If self-propelling, the selfpropulsion is incidental. For fire engines and other pumping engines see 621.64

Theory  General

151 Types, structural etc.

153 Boilers
Better class in 621.1843. 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; 621.7 Dredges

156 Agricultural: threshers, etc.

159 Semistationary engines  Various types

16 Stationary engines
Engines fixed in position; e.g. those running factory machinery, cables, elevators, etc. For management see 621.193. For boilers see 621.1824

161 Theory and general

162 Types by use: hauling, dredging, etc.
For pumps see 621.64. For types class by engine mechanism see 621.164

163 Stationary boilers
Better class in 621.1843 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 621.171; e.g. vertical throttling engines 621.164444

1 General
2 Throttling engines
3 Automatic shaft governor engines
4 Releasing gear (Conliss) engines  Drop cutoff
5 Single acting engines: Westinghouse or Williams type
6 Simple engines
7 Compound engines, triple expansion, etc.
Steam turbins

See also 621.123 Marine steam turbins

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 turbins
23 Pressure turbins
24 Combined velocity and pressure turbins
3 Construction Details of design
32 Vanes
33 Bucket
33 Guide vanes
34 Nosles
34 Rotor
35 Discs
35 Valves, governs, safety devices
36 Thrust balancing
37 Mass
38 Casing, etc.
39 Bearings, etc.

Rotary engins

Steam generation and transmission

Fuels, furnaces, boilers, piping, power plants
For steam heating see 697.5

General

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 Comparativly consumption

Practical experiments with various fuels

Furnace Draft

General

1 Heating and grate surfaces
1 Types of furnaces
1 Furnace and construction details
5 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 Pulverizied 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 621.1941 Firing
83 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 Locomotives, traction, portable
24 Stationary
25 Firetube boilers (tubular)
253 Internally fired
255 Externally fired
26 Water tube boilers (tubular)
27 Flash generators Instantaneous vaporizing boilers
3 Boiler construction Setting Parts
32 Shell Heads Tubeshot Domes Drums
35 Riveted joints, staying and bracing
35 Tubes Ferrules Rings
4 Casing
5 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, zinco, steam collectors

Steam transmission and distribution Piping

1 General; laws of flow, condensation, friction
2 Connections; mains, auxiliary piping
4 Valves
5 Stop, safety, reducing Pressure regulators
5 Drains and traps Receivers and distributing valves
6 Covering Insulators
Nonconductors for high, low and medium temperatures
7 Joints and cements Expansion joints
8 Utilization of exhaust steam
See also 697.1 Steam heating

Steam boiler and power plants Central stations

See also building, 697.1 steam heating

Arrangement and housing of apparatus

Provision for enlargement

Care and management of steam apparatus

Boilers

Piping

Feeding

Put here general discussion of feeding and feedwater appliances. For separate description of appliances see 621.197

Treatment of feed water: purification, softening

Scale prevention Incrustation

Inspection Hydraulic tests Rating

Engins: oiling, packing, adjusting

Duration Wear

Corrosion

Steam plant accessories Economic appurtenances

Feedwater appliances

Tanks, heaters, economizers, filters, purifiers, regulators

Pumps Injectors Return traps

Separators

Superheaters

Condensers and cooling towers

Surface condensers

Jet condensers

Cooling towers

Condenser accessories

Instruments

Indicators, tachometers, gages, dynamometers, thermometers, pyrometers, lubricators, etc.
Hydraulic engines or motors

Industrial use of water as motive power, including 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 621.6; for pumps see 621.6; for reservoirs, aqueducts, etc. see 628.2; for theory of mechanics of liquids see 532.

Water wheels
Theory, classification, parts (e.g. paddles, vanes, buckets) water gates, culverts

Overshot or bucket wheels
Brest wheels

Overshot wheels of low velocity
Overshot wheels of high velocity

Brest wheels
Fairbairn wheels

Sluice gate or Sagehen wheels

Undershot or impulse wheels and floating wheels

Ordinary undershot wheels
Wheels with curved vanes or buckets
Pelton wheel
Vertical impulse wheels
Current suspension wheels

Floating wheels

Turbins
See also 621.105 Steam turbines

General: parts (e.g. distributors, buckets, guide vanes) regulators

Reaction or pressure turbines
Outward flow
Early forms: Barker's mill

Inward flow

Downward flow

Impulse or Girard turbines

Water pressure engines
Accumulators

Hydraulic pumps

Piping for high pressure

Accumulators

Hydraulic machinery and appliances

Hydraulic presses

For theory see 532.8:

Funicular engines
Hydraulic tackle

Hoists
Elevators
Cranes

Class preferably in 621.65; i.e. purpose outweighs motive power

Special handling and lifting machinery for steel works, etc.

Presses
Forging and stamping machines

Accessories: injection pumps

Mining, tunneling and other hydraulic appliances

Hydraulic giant, Brandt's hydraulic gun

Hydraulic rams

For theory see physics 532.83

Lifting rams
Montgolfier ram, Bolle ram, etc.

Pumping rams
Leblanc ram

See also 621.64 Pumps

Compressing rams
Sommelier ram

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

SUMMARY
621.31-7 Heavy current engineering

.31 Generation of electricity
  .311 General
  .312 Central stations
  .313 Dynamo-electric machinery
  .314 Stationary induction apparatus
  .315 Electrostatic apparatus
  .316 Accessories and parts
  .317 Control and central station wiring
  .318 Manufacturing processes
  .32 Electric lighting
  .33 Electric traction
  .35 Voltaiic cells and batteries
  .36
  .37 Electric measurements and testing
  .38 Weak current engineering
  .382 Telegraphy
  .384 Wireless communication
  .385 Telephony
  .39 Other applications of electricity

621.31-.37 Heavy current engineering

.31 Generation of electricity    Dynamo-electric machinery

Transformers

.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
    Administrative point of view; a specific repair belongs with
    the part repaired

.31213 General central stations
  Combined power, traction, light, etc., stations
  132 Steam driven
  133 Gas
  134 Hydraulic
  135 Composite

3 Stations for lighting only
  Divided by source of power like 621.31213

5 Stations for traction only
  Divided like 621.31213

6 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
   3. Theory
      4. General types
         5. Continuous-current generators
            6. Series wound
            7. Shunt wound
            8. Compound wound
         9. Continuous current motors
            10. Subdivided like 621.3133 above
            11. Constant speed motors
            12. Multispeed motors
            13. Adjustable speed motors
            14. Varying " " (railway motors)
            15. Continuous-current converters
            16. Dynamotors and motordynamos
            17. Compensators or balancers
            18. Continuous-current boosters
            19. Other
               20. Acyclic or homopolar machines
3. Alternating-current machinery
   32. General types of alternating current machinery
      33. Single phase machinery
         34. Other polyphase machinery
      35. Synchronous machinery
         36. Theory
         37. General types
         38. Alternating-current generators
         39. Synchronous motors
         40. Alternating-current converters
         41. Theory
         42. General types
         43. Description
         44. Synchronous converters
         45. Phase converters
         46. Frequency converters
         47. Double-current generators
         48. Motor converters
5. Asynchronous machines
   51. Theory
   52. Induction generators
      53. Motors
         54. Series alternating-current motors
         55. Repulsion motors
         56. Frequency converters
         57. Phase converters
6. Rectifying apparatus
7. Mechanical rectifiers
   72. Arc
   73. Electrolytic
Stationary induction apparatus

1 Theory
2 General types and description
3 Transformers
31 Constant-current transformers
32 Constant-potential transformers
33 Phase-changing transformers
38 Meter transformers
4 Auto transformers
5 Potential regulators
51 Compensator potential regulators
52 Induction " "
53 Magneto " "
6 Reactors or choke coils
7 Induction coils

Electrostatic apparatus: condensers

Details of electric machinery Parts

Armatures, field cores, etc.

Central station wiring Control devices and switchboards

For meters and measuring instruments see 631.37

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 Barriers and compartments
7 Station protective devices (fuses, lightning arresters etc.)

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 (steep-down 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
   3 Delta or mesh connections
   3 Star or Y connections
139 Other polyphase systems
15 Composite systems
   Direct and alternating current combined

2 Lines and conductors

For local wiring see specific application; e.g. electric light wiring 621.331

21 General

22 Overhead or aerial lines
222 Systems
223 Poles: foundations, guys, etc.
224 Cross arms Pins
225 Towers
23 Underground lines
232 Systems
233 Conduits
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 Protective devices

82 Line lightning arresters
   For protection of central stations see 621.3178
Electric lighting \textsuperscript{.} Illumination

Class here works limited to electric lighting, but more general than any of
the subbeds 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 337.85 Electric lighting

\textbf{.321} General

\textbf{.325} Arc lighting

- Including systems and lamps
  - General: efficiency, cost, etc.
  - Constant-current or series systems
  - Constant potential or parallel systems

\textbf{.325} Arc lighting according to

- Type of arc
  - If emphasis is on form of current, class under 621.3255
  - If there is conflict, prefer 621.3254
    - Open arc
    - " " direct current
    - " " alternating current
  - Inclosed arc
    - " " direct current
    - " " alternating current

- Form of current
  - If emphasis is on type of arc class in 621.3254

\textbf{.326} Incandescent lighting

- Including lamps and systems
  - General: efficiency, cost, etc.
  - Systems (Edison 3 wire system)
  - Carbon filament lamps
  - Metalized filaments
  - Other carbon filaments

\textbf{.326} Metal filament lamps

- Platinum filaments
- Tantalum
- Tungsten
- Osmium
- Other metal filaments
  

\textbf{.327} Incandescent vapor lighting and lamps

- Other electric lighting

- Vacuum or incandescent vapor lamps
- Mercury vapor lamps
  - For mercury rectifiers see 621.3137
- Carbon vapor lamps
- Moore lamp
- Vacuum lamps for special radiations: Crookes tubes, etc.
Apparatus at services end of line

1 Underwriters requirements
   National electric code
2 House wiring
3 Panels
4 Fuses
5 Insulators, etc.
6 Meters
   See also 621.37 Electric measurements and testing
7 Switches
8
9 Other apparatus

Electric traction

See 625 for construction of route; 656 for business management, maintenance; 654 for communication and signals; 699 for car building; 725.3 for architecture of stations, terminals, cars, sheds, shops, round houses, etc.

This number is concerned properly only with the apparatus and appliances for transmission and use of the current after it enters the line.

General

Systems

1 Systems according to services
2 Trunk lines
3 Interurban
4 Local
5 Surface
6 Elevated
7 Subway

Systems according to current

8 Direct current
   9 Single-phase
   11 2 phase
   12 3 phase
   13 Others

Systems according to delivery of power

14 Trolley systems
15 Overhead trolley
16 Underground trolley
17 Third rail systems
18 Unprotected third rail
19 Protected

The line (including track)

1 General
   Interaction of parallel lines, heat losses, etc., are better dealt in 621.31921
2 Feeder and return systems

Overhead wire

1 Trolley lines
2 Catenary suspension
3 Trackless trolley

Third rail

1 Underground conductor or contact

Accessories

Other types of line

Track

1 General
2 Deteriorating influences
3 Electrolysis
4 Leakage

Rails

Bonding
Rolling stock

For nonelectric rolling stock see 656 for administration, 699 for construction.

Locomotives
Motor cars
Accessories and parts: Control systems
Motor, controller, current collecting devices, etc. Multiple unit control
Locomotive and car wiring
Running gear and other nonelectric details

Chemical electricity
Voltaic cells and generators
Primary and secondary

General
E.m.f., counter e.m.f., polarisation, weight, capacity; efficiency, life, crumbling, deterioration and detrimental influences; residues

Parts and accessories of cells and accumulators
Containers: jars, troughs, vats, etc.
Electrodes and their accessories: positive and negative plates or elements
Grids, supporting frames, insulating rods, etc.
Diaphragms and partitions
Electrolytes Depolarisers
Packing
Circulators Condensers and piping
Connections Terminals Binding posts
Regulating apparatus

Other apparatus

Primary cells
See also 537.5 Voltaic electricity; 541.37 Electrochemistry

General
Single fluid
Double " heavy current cells
Open circuit or nonpolarised
Closed circuit or depolarised
Accessories and parts
Classification according to use or operating methods

Accumulators or storage batteries
Secondary cells and batteries

General
Care and handling of accumulators
Accessories and parts

Led accumulators
General
Care and handling
Naturally formed: Planté type
Artificially formed: Faure type
Combined Planté-Faure types
Other led accumulators
Complex oxid types
Led element accumulators
Copper led "
Zinc "
Cadmium "

Alkaline accumulators

Other types of accumulators
Thallium, gas, etc.

Other classifications of accumulators
According to use or operation

Other topics pertaining to chemical generation of electricity
Vacant for future use; perhaps for direct transformation of heat or fuel energy
Electric measurements, meters and testing

General
Tariffs may be classed here, tho' better put in 654

Standards Calibration of instruments

Meters General types
Recording meters. See also special meters, 621.384
Prepayment meters. See also special meters, e.g. 621.3745 Watt hour

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 Oscillographs

9 Other meters and measurements
Phase meters Power-factor meters Synchronizers

91 Other electric measuring instruments
For other than electric measurements; e.g. electric thermometers

Weak current engineering

Electric communication: telegraphy, telephony, wireless
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 detailed technical classification
is developed here.
For overhead or underground lines see 621.3198

General

Telegraphy Systems
When systems and instruments conflict, classify according to systems.
For business administration, see 654; for wireless see 621.384

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
Quadruplex
Multiplex
Synchronous multiplex: Delany
Harmonic: Gray
Automatic code telegraphy: High speed systems
Electrochemic automatic: Bain, Morse
Ink recording or embossing
Wheatstone
Pollak-Virag
Telepost (Delany)

Printing telegraph
Tape printing: stock tickers
Other tape printing: Hughes
Page printing: Buckingham, Murray, Baudot
Multiple page printing: Rowland

Writing telegraph
Transmitting and recording characters while being written; Gray's telerautograp

Facsimile telegraphy
Submarine cable telegraphy
Other wire systems
Induction telegraphy: from moving trains, etc.
Combined telegraphy and telephony: Farnom circuits

Telegraph instruments
Transmitting: keys, senders, etc.
Intermediate and accessory: relays, repeaters, switches
Relays
Differential relays
Polarised
Repeaters, for simplex: Milliken, Ghegan, Toye, etc.
" duplex or quadruplex
Half' repeaters
Switches and distributing apparatus
Protective apparatus
Miscellaneous telegraph accessories

Receiving instruments
Sounders, recorders, etc., Subdivided, if desired, like 631.384-8

Wireless electric communication: telegraphy, telephony

General
Wireless telegraphy
Systems
Spark telegraphy: by free oscillations
Continuous-train telegraphy: by forced oscillations
Instrument
Sending apparatus
Antennae, aerials, and their substitutes
Receiving instruments and apparatus
Applications, adaptations, specific installations

Wireless telephony systems
Apparatus
Sending apparatus
Aerials etc.
Receiving apparatus
Applications, adaptations, specific installations
Vacant for possible development of visual transmission by wireless
Telefonic Systems

See also 621.385 Wireless telefonic

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 621.385

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 systems

7 Semiautomatic and automatic systems

72 Semiautomatic

75 Automatic

76 Strowger system (Automatic Electric Co)

8 Private exchanges

.386 Telefonic 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 Protective 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
Power plant equipment and accessories
Accumulators
Charging generators
Ringing

Automatic and semiautomatic switchboards
Including accessories. Subdivided like 621.3857

Telephone transmission
For transmission common to other branches of electricity see 621.319
Put here only that peculiar to telefony

Long distance
Transposition
Telephone cable construction
Loading
Pupin coils

Other central station accessories
Distributing frames and racks; main
Intermediate or secondary

Protective devices
See also 621.3178 and 621.3182

Meters and counters
See also 621.3186 Electric light meters
Vacant for visual transmission by wire

Other electric communication

Other application of electricity
Subdivide like 600; e.g. electricity applied to mining 621.3922, applied to medicine 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 621.3907 with a general assortment of unrelated applications. References here show a library’s resources on special applications

Air and gas engines and other motors

Hot air engines

Compress or rarefied air or gas engines

Internal combustion engines

General theory of internal combustion engines

Cycles and systems of operation
Four cycle systems
Otto cycle
Two cycle systems
Other and modified systems

Gas turbines}

Internal combustion engines class by fuels
Engines for gaseous fuels
Engines for natural gas
Illuminating gas
Blast furnace gas
Producer gas
For gas producers see 665.8
Engines for acetylene gas
Engines for liquid fuels
Engines for gasoline
Kerosene
Other petroleum oils
Alcohol
Engines for solid fuels
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.

Parts and accessories of internal combustion engines

Special applications
Selfpropelled machinery
Engines for farm machinery, fire engines, roadrollers, etc. See also special machines.

Selfpropelled vehicles
Class here only adaptation and application of internal combustion engines to motor vehicles. See also 629 for motor vehicles.

Motors for small boats
" large vessels
Airship motors
For airships see 629.

Binary vapor engines
Windmills
Animal motors Tredmills
Solar engines
Power plants and central stations

Air compression or rarefaction Pneumatic machinery
Refrigeration Ice machines

Air compressors
Dry air compressors
Wet "

Compress air transmission and distribution
Details of transmission Piping, mains, gages, etc. Designs of transmission.

Applications for compress air
For pneumatic hoists, etc. see 621.86
Compress air motors
Pneumatic tools: drills, hammers, etc. See also 821.9 Machine tools

Special applications in railway servis
Compress air locomotives
Pumping by compress air
Other applications
Pneumatic cleaning, sandblasts, tubes

Rarefied air and vacuum appliances
Vacuum cleaners; general discussion and description. See also domestic economy 648.52 Methods of sweeping and dusting
Refrigeration
For cold storage see 664.8
Refrigerating fluids
Refrigerating systems and plants
Brine system
Direct expansion system
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 motive power
  .641  General theory  Design and construction
  .642  Tests of pumps and pumping engines
  .65  Direct acting pumps
  .651  Piston pumps
  .652  Plunger
  .66  Rotary pumps
  .67  Centrifugal pumps
  .68  Fire engines
  .69  Other blowing and pumping devices
    Steam jets, ejectors, etc.
Mills Factories Engineering works

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 621.7985 as an integral part of his plant, the classification under the regular number will usually prove more satisfactory in all cases.

.704 Location
With reference to supply of raw material, market for finish product, shipping facilities, relation 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.

.705 Mechanics and laborers
    .71 Drafting room
    .712 General
    .713 Arrangement
    .714 Equipment
    .715 Materials and supplies
    .716 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
Other shops and departments

Boiler and sheet metal shops
Stamping and punching May be subdivided like 621.71
Special process shops
Galvanizing, plating, etc. May be subdivided like 621.71
Finishing shop
Painting, glazing, grinding, buffing, testing. May be subdivided like 621.71

Storehouses
Materials and supplies
Explosives
Products
Shipping department

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

Other minor shops and departments

Principles of mechanism Millwork and mechanism of transmission Hoisting and conveying machinery

General Principles of mechanism Machine design
Journals, shafting, etc.
Journals
Bearings: ball, roller, etc. Hangers Bearing metals
Shafting
Flexible shafting
Couplings and clutches Universal joints
Friction clutches
Shaft brakes
Tooth gears and cams
General: theory, forms of teeth, tooth curv
Efficiency of gears Tests Friction of gears
Design of gears
Spur gears
Bevel and skew bevel gears
Worm and spiral gears
Screws for transmitting motion, endless screws
Construction: gear cutting and casting
Chain gearing
Ratchet gearing: pawls, dogs
Cams
Valv motions and gears
General, trade catalogs; for special valvs see subject
Valvs and cocks
Machinery and mill gearing
Transmission by flexible connections
Belt connection
Hemp rope transmission
Wire rope
Pulleys Sheaves
Friction gearing
Hoisting and conveying machinery

For dredges see hydraulic engineering, 627.7 Dredging, dredging machinery. See also 621.86 Hydraulic machinery; 621.823 Fuel and ash conveyors

.861 Hoists: blocks and tackle
.862 Mechanical tackle Chain blocks
.863 Winches Capstans Windlasses
.864 Power shovels
.865 Conveyors Telferage
.866 Belt or bucket conveyors
.867 Belt: moving sidewalks
.868 Bucket: escalators, moving stairs
.869 Other conveyors: cash carriers, etc.
.870 Telfers
.871 Selfpropelling
.872 Other: jacks, etc.
.873 Cranes and elevators
.874 Derricks
.875 Revolving cranes
.876 Traveling cranes
.877 Locomotiv cranes

Elevators

1 Handpower
2 Belt driven
3 Steam, gasoline
4 Hydraulic
5 Electric

For special purposes

71 Passenger elevators
72 Freight
73 For mines see 622.17-68
74 Dumb waiters Book lifts
75 Lifts for small objects
8 Apparatus
81 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 621.833
.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 Metal sawing and cutting machinery
.94 Turning
.941 Metal turning lathes
.943
.944 Pipethreading machines
.945 Boring mills
.95 Perforating machinery
.951 Drilling machinery Drills
.953 Reamers
.955 Tapping machines
.96 Punching and shearing machinery
.97 Hammers Riveting tools
.98 Bending, straightening, and shaping
.981 Bending machinery
.983 Straightening machinery
.984 Flanging and die press machinery
.99
622 Mining Engineering. See also 338.3, Mining products
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

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.

   31 Open Workings.
   32 Hydraulic Mining and Sluicing.
   33 Coal Mining. See 553.3.
   34 Metal Mining. See 553.3 and 4.
   35 Working Thick Deposits.
   36 Salt Mining. See 553.63.
622.4 Ventilation and Lighting of Mines.

- Theory. Gases met with, etc.
- Natural Ventilation.
- Furnaces. Steam Jets, etc.
- Fans. See 621.62.
- Measurement of Ventilation.
- Lighting. Safety Lamps, etc.

5 Drainage.

- Theory of Infiltration of Water.
- Natural Drainage.
- Cornish Pumps. See 621.64.
- Steam Pumps. See 621.64.
- Hoisting of Water.
- Dams and Watertight Linings. See also 622.18. Timbering.
- Acid Waters.

6 Extraction. Hoisting and Transportation.

- Handling Mineral in Working Place.
- Underground Roads.
- Mine Cars. Trams, etc.
- Gravity Roads and Planes.
- Tramming and Animal Haulage. See 625.7.
- Mechanical Haulage.
- Surface Transportation.
  Including Mineral roads, Wire ropeways, Transhipment, Loading and unloading, etc.

7 Mechanical Preparation. Ore Dressing.

- Hand Dressing.
- Crushing. Stamping Engine.
- Screening.
- Jigging. Ore Concentrators.
- Slime Treatment.
- Magnetic Separation.
- Coal Washing.
- Dressing Works.

8 Dangers and Accidents. See also 613.6, Hygiene; 331.88, Laboring classes.

- Explosions of Fire-Damp.
- Mine Fires.
- Crushing and Fall of Ground.
- Flooding of Mines.
- Accidents to Miners.
- Rescue and Relief.

9
Military and naval engineering

For military and naval science, maneuvers, strategy and tactics see 355-359

SUMMARY

623.1 Fortifications: field and permanent
.3 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 Defilading
.115 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  Defensively operations

For maneuvers see 355.44

.34  Defense of trenches
    "  breaches

.36  Countermoves

4  Firearms and projectiles  Arsenal

Including ammunition in general and fireworks. For manufacture of explosives
see 662. For general history of war customs and weapons, and of ancient engines
of war see 390. Class here weapons for gunpowder and similar explosives

.41  Artillery material

Clast according to use

.412  Field artillery material

.413  Mountain " "

.414  Landing " "

.415  Siege " "

.416  Fortress " "

Including large guns (fortress, coastal and naval) considered together

.417  Coast artillery material

.418  Naval " "

4  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 623.447

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  Hoopd guns

62  Jacketed guns

63  Hoopd 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

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  Rifling

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 631.415
   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 pindle block and pivots
   1 Checks and transoms
   2 Chassis and crossed 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
      Automatic friction recoil checks
   61 Screw brakes
   93 Hydraulic brakes
   64 Pneumatic
      Trail spades
   65 Reactionary mechanism
      Devices for restoring guns to firing position after recoil
   71 Spring recuperators
   72 Pneumatic recuperators
Maneuvering appliances
1 Levers, handspikes, roller handspikes
2 Breeching tackle
3 Shot barrows, shell barrows
4 Projectile hoists
See also 621.86 Hoisting and conveying machinery

Small arms
Mechanism and military efficiency
For small arms practis see 335.5
" manufacture of small arms see 683
" weapons prior to firearms see 399

Primitiv forms of firearms
Blunderbus, harquebus, etc.

Rifles, muskets, carbines, musketoons
Including also bayonet as part of the complete weapon
1 Single shot, muzzleloading
2 " breechloading
3 Repeating rifles
31 With magazine
32 " loader
4 Automatic guns

Pistols and revolvers
1 Single shot pistols
3 Automatic pistols
4 Revolvers

Side arms Cutting arms
For halberds, axes, dirks, poniards, and other antiquated forms see 399
1 Swords
3 Bayonets: saber, bayonets, sword bayonets
4 Lances

Ammunition and fireworks
Kinds and relative efficiency for military purposes. For details of manufacture of powder and explosives see 662

Artillery projectiles
Including exploder as part of projectile
1 Spheric projectiles
11 Solid shot
12 Bombs
13 Shells: early shrapnel
14 Grenades
2 Elongated projectiles
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 621.45446
7 Shells with high explosive Torpedo shells
8 Armorpiercing shells and other projectiles
Powders Explosivs
See also 662.2 Powder manufacture
1 Gunpowder
2 Other powders
9 Other explosives
.453 Fixt ammunition
.454 Exploding devices and fireworks
See also 663 Pyrotechnics, explosive, 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 683.453
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
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Military roads, bridges and buildings

From the special point of view of military service. For construction in general see 640.1 and 725.; for bridges, roads and railways see 624 and 625.; for seacoast walls, 627. Hydraulic engineering

Military buildings

Duplicating 725.18 for military engineers. Libraries should use 725.18 and leave 623.61-614 vacant; for construction of fortifications see 623.1

Barracks

Military establishments

Groups of buildings forming a unit; e.g. military schools, army posts

Magazines

Military roads and thoroughfares

See also 624.7 Construction of roads

Military railways

See also 625 Railway construction

Destruction of tracks

Military bridges

For permanent bridges see 624

Pontoon bridges

Trestle bridges

Other temporary bridges

Bridge material

Military signals

Aeronautics, etc.

Special military applications of science

Military topography

Special processes and instruments. See also 526 Topography in general

Photography

Reproductive processes applied to military art. See also 710 Photography

Signaling

Military telegraphy

Visual signals: heliographs, searchlights, etc.

Military telegraphy

Both wire and wireless. See also 621.38a and 654.4 Telegraphy

Military telephony

Both wire and wireless. See also 621.38a and 654.6 Telephony

Military aeronautics

For principles see 531.6 Aeronautics; for construction of airships see 629

Class here only military utility

Machines lighter than air

Free balloons

Dirigible balloons

Captive balloons

Machines heavier than air: aeroplanes

Other

Military sanitation

Camp sites: soil, water, drainage, etc. For personal hygiene see 623.67
623.8 Naval Architecture. See also 699, Ship building.
   .9 Armored Vessels, Torpedoes, etc.

624 Bridges and Roofs.
   .1 Piers. Foundations, etc.
   .2 Girders. Stresses and Strains.
   .3 Trussed Bridges.
   .4 Tubular Bridges.
   .5 Suspension Bridges.
   .6 Arched Bridges.
   .7 Compound Structures.
   .8 Movable Bridges.
   .9 Roofs.

625 Railroad and Road Engineering.
   * See also 624, Bridges; 622.2, Tunnels; 622.36, Excavations, etc.; 621.33, Electric railways.
   .1 Route. Road Bed, Rails, Ties, etc.
   .2 Trains. Brakes, Couplings, Wheels, etc. See 621.13, Locomotives.
   .3 Inclines and Mountain Railways.
   .4 Elevated and Underground Roads. Subways. See also 624.32.
   .5 Cable Roads.
   .6 Horse Cars. Tramways.
   .7 Roads. Highways.
   .8 Pavements. See also 623.47. Sanitation of towns.
   .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 also 699. Shipbuilding.
  .7 Towing. Power, etc.
  .8 Irrigation Canals and other Irrigation Works.
  .9 Ship Canals.

627 River, Harbor, and General Hydraulic Engineering
  .2 Harbors. Breakwaters.
  .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. Water-works.
  .01 Theories, Utility; .02 Compendia; .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 625.7.
    .11 Sources of Water Supply; Lakes, Rivers, Springs, Wells, and Pumping; .12 Pumping vs. Gravitational Systems; Pump-well; Stand-pipe; High Service; Holy System.
    .13 Storage and Service Reservoirs; .14 Conduits; Aqueducts; Tunnels (see 563).
    .15 Main and Service Pipes; Freezing; Iron; Lead; .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.
      1, Combined System; 2, Separate System; 3, Lienauer System; 4, Simple System; 5, Berlin System; 6, Other Systems; 7, The Outfall; 8, Depth and Alignment; 9, Grade and Velocity.
628.22 Shape and Size of Sewers.


63 Ventilation of Sewers.


64 Design and Construction of Sewers.


66 River Crossing.

67 Intercepting and Outfall Sewers.

68 Reservoirs and Tank Sewers.

69 Pumping Stations.

3 Disposal of Sewage.

31 Physical Properties of Sewage.

32 Deodorization and Disinfection of solids and liquids. See 668.337.

33 Subsidence.

34 Precipitation.


35 Filtration.

36 Irrigation.

37 Broad Irrigation; 38. Ridge and Furrow Irrigation; 39. Flat Bed Irrigation; 40. Sub-surface Irrigation; 41. Intermittent Downward Filtration; 42. Carriers and Appurtenances; 43. Drains and Drainage of Sewage Farms; 44. Filtration Areas; 45. 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.

5 Industrial Sanitation.

51 Factories and Trades.

52 Prevention of Dust and Fumes; 53. Protection of Throat and Eyes; 54. Protection against Infection; 55. Special Trades.

52 Effluvium Nuisances.

53 Situation of Works; 54. Use of High Chimneys; 55. Condensation in Water; 56. Combustion in Furnaces; 57. Special Trades.

53 Smoke Nuisance.

58 From Steam Generators; 59. From Special Industries.

54 Disposal of Solid and Liquid Wastes.

55 Discharge into Streams; 56. Absorbing Wells and Burial; 57. Clarification by Subsidence; 58. Chemical Treatment; 59. Purification by the Soil; 60. Special Methods and Special Trades.

6 House Drainage.


8 Ventilation and Heating. See 607, 644, 668.23, 669.1, 661.10.

This head is chiefly for Ventilation. Most matter on Heating goes in 607.

9 Lighting. See 621.29, 527.53, 644, 665.

629 Other Branches of Engineering.
630 Agriculture.

1. Compenda; 2. Dictionaries; Cyclopedias; 4. Essays; 5. Periodicals;

635 Kitchen garden. See 716 for Flower gardens.
636 Domestic animals. See also 619, Veterinary medicine; 599-7, Zoology.

2. Cattle.
4. Swine.
5. Poultry.
7. Dogs.
8. Cats.
9. Other. Camels, etc.

638 Bees. Silkworms.
639 Fishing. Trapping.
640 Domestic economy

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 330; for care of library buildings see 025.4. Numbers for allied subjects in army and navy will be provided under military and naval science. See also 331.85 Food, clothes and shelter of laboring classes.

SUMMARY
641 Food, cooking, kitchen
642 Serving, eating
643 Shelter, house, home
644 Heat, light, ventilation
645 Furniture, carpets, upholstery
646 Clothing, toilet
647 Administration, household management
648 Sanitary precautions, cleaning
649 Nursery, sickroom

.1 Theories, utility, etc.
.2 Compends
.3 Dictionaries, encyclopedias
.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; 371.48 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
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 178.92 and 613.25.

.02 Compends

.03 Dictionaries, encyclopedias

.04 Essays, addresses, lectures

.05 Periodicals

.06 Societies

.07 Study and teaching, Cooking schools, classes and clubs

.08 Polygraphe

.09 History and description
Divided like 920-999. Including foods characteristic of different peoples, but for preparation of specific dishes (i.e., recipes) peculiar to special countries see 641.59.
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 613.3; 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
613.3 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 propor-
tion as found in various foods

.11 Organic food constituents

.12 Proteins 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 613.39, 613.3 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 prepara-
tion of food for special systemic conditions, with recipes subsidiary or with
recipes and diet about evenly balanced; in 613.39 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 Breakfast

.53 Luncheon, afternoon tea, supper

.54 Dinner

.55 Economic cookery

.56 Special conditions
   Under limitations of age, health, 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

Exclusive 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 temporary 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 characteristic of special countries or regions

.591 Frigid zone and cold weather

.592 Tropics and hot weather

Divide farther like 930-999, using these numbers preferably only for reference and shelving books under 641.5-578

.6 Cookery; class by material

Subdivide like 641.5 (not yet completed)

.7 Cookery; class by process

.71 Baking, roasting

.72 Braising

.73 Boiling, simmering Soups

.74 Stewing

.75 Steaming

.76 Broiling, grilling

.77 Frying, sautéing

.8 Composit dishes

Ices, confectionery, beverages, etc. See also 641.53 Luncheon, afternoon tea, supper

.81 Entrées Made dishes

.82 Salads

.83 Sandwiches

.84 Confectionery, candies, sweets, bonbons

.85 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
Serving          Table          Entertaining
          See also 595 Etiquette

1. Home and family meals
   Breakfast, lunch, dinner, supper. Menus and servis
   For tables of chemical 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 641.378

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 594.1 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 fixed charge for essentials, and coupons
       (alimentary mileage) for extras
   56. Mixt plan
       Table d'hôte and à la carte; table d'hôte and club
   57. Lunch counters    Caffetaria
   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 classed here, the possible to be con-
   sidered part of 645.60 Dining room furnishings

8. Table decoration
   Selection and effective 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 697; for heating and ventilation see 628, 8, 644 and 697; for lighting, 628, 9 and 644, 11; for plumbing and gasfittings see 696; for furnishing see 645

.1 Location, site

Social and religious character of neighborhood; accessibility, railways, trams, 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 detachable rooms and buildings see 728, 9; for furnishing see 945; for architectural aspect of structural parts of house (foundations, floors, walls, etc.) see 721; for wall finish see 729, 51

.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, 93, Detachable kitchens

.32 Ventilation

Carrying off odors, etc.

.33 Stoves, ranges, cookers, hot plates, 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 laborsavers

.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, Detachable laundries

.6 Laborsavers

General: bells, telephones, tubes, lifts, chutes, door openers and closers, etc. See also special subjects; e.g. 648, 52, Vacuum cleaners

.7 Repair
Heat Light Ventilation

1 Systems of heating
   Desiderata, relative 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 740 Artistic fireplaces

19 Portable heaters: bedwarmers, warming pans, footwarmers

2 Fuels
   Relative cost; cleanliness; 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 discussions covering fixtures and medium, their relative advantages, etc. For medium alone see 644.31; for fixtures see 644.39

31 Lighting medium
   See also Chemical technology 665

311 Candles

312 Oil

313 Gas

314 Acetylene
   See also 631.38 Electric lighting

315 Electricity

319 Other

32 Apparatus and accessories
   Subdivide each, if wished, 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
Furniture, carpets, upholstery  

For plan and furnishing treated together see 643
See also hygiene 615.59; architectural decoration 729; design 745; artistic furni-
ture 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 643.7 Table fur-
nishings; 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 office

.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 643.7–8

.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 713 Private grounds; 717 Arbors,
   seats, outlooks
Clothing

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 358.29; history of costume 391; clothesmaking 687; hygiene of clothing 612.48; adulteration of textiles 614.37; for uniforms and liveries see occupations to which they pertain.

Psychology and economics of fashions

Reasons for change of fashions; expense of fashionable dressing

Compenda

Dictionaries, encyclopedias

Essays, lectures, addresses

Periodicals

Societies Dress reform societies

Study and teaching

Polygraphy

Adaptation to climate or season

Clothing for cold weather and frigid zones

"{} hot " {} tropics

Materials Textiles 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

Cotton

Flax Hemp

Wool Mohair, alpaca, camel's hair, rabbit's hair, etc.

Silk

Lether

Fur

Other animal materials: fethers, hair, whalebone

Other vegetable materials

Rubber

Paper

Celluloid

Straw Raffia

Other fibers: jute

Other materials Tinsel, aluminum, asbestos, etc.

Sewing Knitting Crochet

For fancywork see 746

Plain sewing

Running, backstitching, hemming, overhanding, etc.

Mending Darning

Knitting and crochet Tatting

For machineknit goods see 677

Crochet

Clothing divided by wearers

See also 391 Costume; 687 Clothesmaking as a trade

Clothing for men

" " women

" " 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 646.45 Subdivisions .42-.48 may be further 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 646.56 Hedger, 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 hedger see 646.5
   .5 Millinery
      See 687 Millinery as a business
   .52 Hats, caps, etc. for men
   .54 Hats and bonnets for women
   .55 Other outdoor hedger for women
   .56 Hedger 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 591.5-.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 offices, employment bureau
      Class here regular employees or assistants; for occasional employees see .647.39
      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 buildings, churches and other public and
   semipublic establishments or rooms
   See also 692.9 Blding laws; 728 Residence architecture
   Tenements
   See also 728.1 Tenement house architecture; 531.85 Housing of laboring
   classes, including tenement house laws; 613.53 Hygiene of tenements
   Apartments, flats
   See also 728.2 Apartment house architecture
   Cooperativ housekeeping
   See also 334.4 for economic aspect
   Hotels, Clubs
   See also 728.4 Clubhouse architecture; 728.5 Hotel architecture
   Restaurants, tea rooms, etc.
   See also 647.5 Table systems for large numbers
   Public buildings, Institutions
   General administration and care affecting health and convenience of occu-
   pants and public; janitor's duties. May be subdivided if wished like 735:
   e.g. 647.962 Administration of office buildings, or 647.9623 if so clas-
   sification is preferred
   See also 362 Hospitals, asylums, etc; 365 Prisons
   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
   Administration Accounts
   .11 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
      Washing 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 blding
   See for sanitary engineering 648; for plumbing 696; for dry cleaning 646.6; for
   chimney sweeping 644.3
   .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 textiles 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 administra-
   tion: 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 Children's 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 Office equipment and methods.
652 Writing. Materials, typewriters, cipher.
653 Abbreviations. Shorthand.
   .02 Practicability for general use. Teaching in public schools.
      For methods see 653.043. Verbatim reporting.
   .03 Speed. See also 653.046. Verbatim reporting.
   .04 Applications.
      .041 Personal notes and records; .042 Correspondence; .043 Ammanan work;
      .044 Newspaper work; .045 Shorthand job offices; .046 Official reporting, court
      and legislative; .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 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 654.
      Covers only systems of quick writing with common characters.
   .3 Stenographies.
      Includes both discussions and systems with arbitrar, signs and new characters.
      .31 Before 1857: .32. Gurney; .33. Gabelberger; .34. Stolze (Detmann); .35. Taylor
      (Baker; Harding; Oufell); .36. Cross; .37. Scovil; .38. Duployé (Pernin, Sloin).
   .4 Phonetic shorthand. Phonographies.
      Limited to phonetic stenography, i.e. brief sound writing. .5 and .6 include only
      systems using Isaac Pitman's consonants.
      .41 Before Pitman (1857); .42 Bell; .43. Jones; .44. Williams; .45.
   .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. Isaac Pitman; .62. Munson; .63. Longley; .64. Burns; .65.
   .7 Connected vowel systems.
      .71. Lindsley's takigraphy; .72. Everett; .73. Barrows; .74. Bishop.
   .8
   .9 Foreign systems. Divided by languages like 400.
      The heads above are for English systems or (as in .33) foreign systems adapted
      to and used for English. Other systems are grouped here by languages,
      but history of shorthand in special countries is in 653.09.
654 Telegraph. Cables. Signals. For codes see 652.
   .1 Telegraphic instruments.
   .2 Duplex, quadruplex, multiplex telegraphs, etc.
   .3 Printing, perforating, dial telegraphs, etc.
   .4 Telegraphic construction; poles, wires, conduits, etc.
   .5 Cables. Submarine.
   .6 Telephones.
   .7 Alarms; burglar, fire. Annunciators, bells.
   .8 Speaking tubes. Pneumatic tubes.
   .9 Signals. See also 534.83. Navigation signals; 693-7. Military signals.
Printing. Publishing. Copyright.

1. History of printing.
   1.1 Claims of Gutenberg, Mainz.
   1.2 Claims of Coster, Haarlem.
   1.3 Celebrations, anniversaries.
      1, 1640; 2, 1740; 3, 1823; 4, 1840.
   1.4-19 Printing in special countries. Divided like 930-999.

2. Type and Type Setting.
   2.1 Type founding. Tools of the art.
   2.2 Electro and stereotyping, etc. Patent blocks.
      For Photo-electrotyping, see 777.
   2.3 Patent types. Logotypes, etc.
   2.4 Faces; sizes; styles. Specimen books.
   2.5 Type setting. Composition. Proof reading.
   2.7 Imposition. Locking up, etc.
   2.8 Type setting and distributing machines. Linotype.

3. Practical printing. For Calico printing, see 667-36.
   3.1 Printing presses.
   3.3 Drying. Hydraulic pressing, etc.
   3.4 Stamps, stencils, etc.
   3.5 Machines. Paging, numbering, addressing, etc.
      See also 654-3. Printing telegraphs; 651, Type writers.
   3.6 Nature printing. From plants, etc.
   3.7 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.
   5.1 Selection of mss.
      For Freedom of press or censorship, see 323; Morals of press, 179-4.
   5.2 Relations to authors. Copyright payments. Prices of mss. bouqet.
   5.3 Size, paper, type, illustrations, binding.
   5.4 Cost of manufacture. Retail prices and discounts to dealers.
   5.5 Advertising, press copies and notices. See 659, Advertising.
   5.6 Retail bookselling. Prices and discounts to buyers.
   5.7 Subscription book publishing. Canvassing.
   5.8 Publishing societies.
   5.9 Publishing by governments, institutions, etc.

6. Copyright. Literary property.
   6.1 Perpetual or common law right. Including ethics of copyright.
   6.2 Copyright in other matter than books. Music, mss, lectures, trademarks.
   6.3 International copyright. See also 341-5, International private law.
   6.4-69 Copyright in special countries. Divided like 940-999.

656 Transportation. Railroading, etc.
657 Book-keeping. Accounts.
659 Advertising and other topics.
   1 Advertising.
660 Chemical Technology.

661 Chemicals.

.1 Chemical Elements. Divided like 546.
.2 Acids. Sulphuric, Nitric, etc.
.3 Alkalies. Potash, Soda, Ammonia.
.4 Salts. For Common Salt see 664.4.
.5 Ammonia Salts.
.6 Sulphates and Nitrates.
.7 Cyanides.

662 Pyrotechnics, Explosives, Matches, etc.

.1 Pyrotechnics.
.2 Explosives. See Blasting 623.33; Ordnance 683.4.
.3 Gunpowder.
.4 Fuses. Percussion Caps.
.5 Matches.
.6 Fuel. Coal, peat, natural gas, etc.
.7 Charcoal. Coke. See also 644.32 Domestic economy; 669.8, Metallurgy.
.8 Artificial fuel. See also 644.8 Domestic economy; 669.8, Metallurgy.

663 Beverages. See also 178, Temperance; 614.35, Adulterations.

.1 Fermented.
.2 Wine.
.3 Brewed.
.4 Beer.
.5 Distilled.
.6 Artificial mineral waters. Soda water.
.7 Mixing drinks. Bar-keepers' manuals.
.8 Chocolate. Cocoa. Commercial mixing of teas, coffees, etc.

664 Foods.

For Adulterations see 614.35, Public health. See also 641 and 643, Domestic economy.

.1 Sugar, molasses, glucose, etc.
.2 Starch, tapioca, sago, etc.
.3 Artificial butter. Oleomargarine. 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 Preservation of fruits and vegetables.
.8 " meat and fish.
   .1 Candles. Torches.
   .2 Animal oils and fats. See also 664.3, Foods.
   .3 Vegetable oils and fats.
   .5 Petroleum. Kerosene.
   .6 Lamps. See also 644.32 Domestic economy.
   .7 Illuminating gases. Calcium light.
   .8 Other gases.

666 Ceramics. Glass, etc.
   .1 Glass. See also 748, Stained glass.
   .2 Enamel.
   .3 Ceramics. See also 738, Pottery, porcelain.
   .4 Clay. See also 555.61, 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 material.

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; 757, Fine arts.
   .7 Varnishes. Polish. Lacquer. See also 698.3, Varnishing.
   .8 Japan. Blacking.

668 Other organic chemical industries.
   .1 Soap.
   .2 Glycerine.
   .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.
Specific topics go where of most interest. These heads are for the general subject of metal, wood, etc., manufactures, and the specific manufactures 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 651.4, not 670. 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, 679, while a manufacturing library might prefer it with other wood manufactures in 670. 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 grouped 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 often wanted. But if the uses are various the general head 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 729.
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.

681 Watch and Instrument-making.
682 Blacksmithing.
683 Lock and Gun-making.
684 Carriage and Cabinet-making.
685 Saddlery and Shoe-making. Trunks.
686 Bookbinding.
687 Clothes-making. Hats.
688
689 Other Trades.
690 Bidding

For architectural construction, see 731.

.1 Theories of construction
.2 Compenda, 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 building construction

691 Materials Processes Preservatives

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 Anti-rust 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 services Fees Commissions
.9 Bidding 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 Sun-dried 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 Superintendence
.8 Fireproofing
.9
   1 Wood Construction, General.
   2 Joints of Wood-work. Framing.
   3 Strengthened Beams.
   4 Posts. Columns. See 724.5.
   5 Panelled and Latticed Construction.
   6 Joinery, General. For Finishing, varnish, polish, etc., see 693.9.
   7 Ornamental Joinery. Cabinet-work.
   8 Stair-building. See 515.8, Stereotomy.
   9 Other branches. See 721.87-89.

   1 Shingle.
   2 Slate.
   3 Tile.
   5 Iron.
   6 Asphalt. Tar. Concrete. (Melted.)
   7 Felt. Asbestos. Paper. (In rolls.)
   8 Textile. Duck. Canvas.
   9 Thatch and other Coverings.

696 Plumbing. Gas and Steam-fitting, etc.
   1 Plumbing. See 628, Principles of Sanitation.
   2 Gas-fitting.
   3 Steam-fitting.
   4 Rivets and Riveted Joints.
   5 Screws and Screw Joints.
   6 Rust or Calked Joints.
   7 Anchors. Band Irons.
   8 Other branches.
   9 Plumbing Laws. See also 614.

697 Heating and Ventilation. See San. Eng., 613.8; Domestic Econ., 696.
   1 Fireplaces.
   2 Stoves.
   3 Furnaces.
   4 Hot Water, high and low pressure.
   5 Steam, high and low pressure. For Boilers, see 621.18.
   7 Electric and Other Methods.
   8 Smoke Flues and Chimneys.

   1 Painting. Oil.
   2 Distemper and Fresco.
   3 Varnishing. Polishing.
   4 Other Modes of Protection.
   5 Glazing. See 748, Stained Glass.
   6 Paper-hanging.
   7 Textile Hangings. Tapestry.
   8 Relief Work. Lincrusta. Stamped Leather, etc.
   9 Other branches.

699 Car and Ship Building.
Fine Arts

700 Fine Arts.
702 Compend.s. Outlines.
703 Dictionaries. Cyclopedia.s.
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 930-909.

710 Landscape Gardening.
711 Public Parks.
713 Walks. Drives.
714 Water. Fountains. Lakes.
   See also 634-9, Forestry; 582, Botany.
716 Plants. Flowers.
   .1 Plants; .2 Flowers; .3 Conservatories; .4 Window gardens; .5 Ferneries.
718 Monuments. Mausoleums.
719 Cemeteries. See also 392.1, Earth burial; 614.61, Public health.
720 Architecture.

.1, Theories, Esthetics, Architectonics; .2, Compenda, Manuals; .3, Dictionaries.
Cyclopedias; .4, Essays, Lectures; .5, Periodicals; .6, Societies; .7, Education, Study, Training, Schools of Architecture; .8, Polygraphy, Collections.
.9, General History of Architecture, divided geographically like 940-999.

721 Architectural Construction.

.1 Foundations. See Bridge Engineering, 694.1, Foundations.
   .11 Dimension Stone.
   .12 Rubble Stone.
   .13 Concrete.
   .14 Sand or Gravel.
   .15 Timber Gratings.
   .16 Piles, Sand Piles.
   .17 Sunken Wells.
   .18 Sunken Tubes.
   .19 Other Foundations.

.2 Walls.
   .21 Wooden and Half-timbered.
   .22 Stone.
   .23 Artificial Stone, Concrete, Pisc, etc.
   .24 Brick.
   .25 Bases, Water Tables, Belt Courses.
   .26 Arcades, Colonnades.
   .27 Cornices.
   .28 Gables and Pediments. See also 731.58, Gable Roofs.
   .29 Other Walls.

.3 Piers, Columns.
   .31 Wooden. See also Carpentry, 694.4.
   .32 Stone.
   .33 Concrete, Artificial Stone.
   .34 Brick, Terra Cotta.
   .35 Iron, Steel.
   .36 Fire-proof, Protected.

.37 .38 .39

.4 Arched Constructions.
   See 624.6, Arched Bridges; and 729.33 and 729.37, Elementary forms.
   .41 Arches, Circular.
   .42 Arches, other forms.
   .43 Vaults, Cylindrical.
   .44 Vaults, Groined.
   .45 Vaults, other forms.
   .46 Domes, Circular.
   .47 Domes, other forms.
721.5 **Roofs**  See also 695 Roof coverings; 624.9 Engineering, roofs

- .51 Wooden
- .52 Masonry
- .53 Glass
- .54 Metallic
- .55 Windows  Openings in roofs
- .56 Roof decoration: crested, repoussé work, colored tiles, etc.
  See also 695.3
- .57 Spires and domes
- .58 Gables  See also 731.28 Gable walls
- .59 Other forms of roofs

.6 **Floors and flooring**

- .61 Wooden  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

.7 **Ceilings**

- .71 Wooden
- .72 Stone
- .73 Brick or tiles with iron
- .74 Metallic
- .75 Concrete  Plaster
- .76
- .77
- .78
- .79

For vaulted ceilings, see 731.4 and 730.34.

.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  Jambs  Pediments  Lintels, etc.
- .87 Shutters  Blinds  Screens  Grilles
- .88 Fastenings  Locks
- .89 Other details

.9 **Iron and composite structures**

For strength of materials, see Engineering, 630.11

- .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
Ancient and Oriental Architecture. (Pagan.)

See also 571-5, Prehistoric Dwellings.

2. Egyptian.
4. Indian (Asiatic).
7. Roman. See 739.32 for Roman Orders.
8. Grecian. See 739.33 for Greek Orders.

Mediæval. (Christian. Mohammedan.)

1. Early Christian.
4. Romanesque.
41. Scotch. Irish.
43. German. Austrian.
45. Italian. Sicilian Norman.
49. Minor Countries.
5. Gothic or Pointed. Divided like 723-4.

Modern.

All the sub-sections of 724 are subdivided geographically like 940-999.

1. Renaissance.
2. Grecian Revival.
5. Queen Anne.
7. Swiss. Timber.
8. Romanesque Revival.
9. Other Styles.
Public Buildings.

.1 Administrative. Governmental.
   .12 Ministries of War, State, etc.
   .15 Court Houses. Record Offices.
   .16 Post Offices, General and Special.

.2 Business and Commercial.
   .21 Stores, Wholesale and Retail.
   .22 Mixed Store, Office, and Apartment Buildings.
   .26 Markets.
   .27 Cattle Markets. Stock Yards.
   .28 Abattoirs.
   .29 Other Business Buildings.

.3 Transportation and Storage.
   .31 Railway Passenger Stations.
   .311 Small (country) Stations.
   .312 Large (city) 
   .313 Union 
   .314 Stations on two levels.

   .315
   .316
   .317 Street-car Stations.
   .318 Elevated R. R. Stations.
   .319 Underground R. R. Stations.
   .32 Railway Freight Houses.
   .33 Railway Shops, Round Houses, Car Houses, Tanks, Stores.
   .34 Dock Buildings. 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 Textile Factories or Mills. Wool, Cotton, Silk.
   .44 Wood-working 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.
 Hospitals and Asylums. See also 725.6. Reformatories.

- Insane.
- Idiotic. Feeble-minded.
- Blind. Deaf and Dumb.
- Paupers. Almshouses.
- Aged.
- Children. Orphans.
- Foundling.
- Soldiers' Homes.

Prisons and Reformatories.

- State Prisons. Penitentiaries.
- Reformatories for Adults. Houses of Correction.
- Reform Schools.
- Washingtonian Homes. Inebriate Asylums.


- Cafés. Restaurants.
- Saloons.
- Baths; Warm, Medicated, Turkish, Russian.
- Swimming Baths.
- Buildings for Watering Places, Spas, etc.
- Buildings for Parks.

Recreation.

- Music Halls.
- Theatres. Opera Houses.
- Halls for Lectures, Readings, etc.
- Bowling Alleys. Billiard Saloons.
- Gymnasiums. Turn Halls.
- Skating Rinks. Bicycle Rinks.
- Boat Houses.
- Riding Halls and Schools.
- Shooting Galleries.

Other Public Buildings.

- Exhibition Halls.
- Workingmen's Clubs and Institutes.

Ecclesiastical and Religious.

- Temples.
- Mosques.
- Synagogues.
- Churches.
- Cathedrals.
- Tombs
- 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, Chemical see 541.1. Biological, etc. Zoological and Botanic Gardens see also 600.7 and 580.7.

.6 Museums. Herbariums see 580.7.

.7 Art Galleries. Studios.

.8 Libraries. See 023, Library Buildings.

.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 Semi-detached, including end houses in city blocks. Stone.

.35 " " " Brick.

.36 " " " Partly wood.

.37 Detached. Stone.

.38 " Brick.

.39 " Partly wood.

.4 Club Houses. Buildings for Secret Societies.

.5 Hotels. Inns.

.51 City Hotels.

.52 Summer Resorts.

.53 Country Inns.

.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.
728.9 Out-Buildings.

- Porter's Lodges.
- Servants' Quarters.
- Kitchens and Laundries.
- Stables. Carriage Houses.
- Barns. Granaries.
- Dairies.
- Ice Houses.
- Other.

729 Architectural Design and Decoration.

For decorative illumination see 745.

1 The Elevation.

- Composition.
- Distribution.
- Proportion.
- Light and Shade.
- Perspective effect.

For projection of shadows and graphics of light and shadow see 515.65 and 515.9.

2 The Plan.

- Elements required.
- Distribution.
- Proportion.

3 Elementary Forms. For construction of these forms see 782.

- Piers, Columns, Pilasters, Pedestals and the Orders. Colonnades.
- Arches and Arcades.
- Vaults and Domes.
- Towers.
- Gables and Pediments.
- Stairs and Balustrades. See also 515.83, Stereotomy; 694.8, Stairbuilding.

4 Painted Decoration.

See also 729.7. Mosaic.

- Vegetable forms.
- Animal forms.
- Grotesque forms.
- Conventional and Geometric Forms.
- Painted Moldings.
- Painted Friezes and Panels.
- Painted Columns and Pilasters.
- Painted Ceilings and Vaults.
- Painted Walls.
Decoration in Relief. For Bas Relief and Figure Carving see 726.

- Vegetable forms.
- Animal forms.
- Grotesque forms.
- Conventional and Geometric forms.
- Carved Moldings.
- Carved Friezes and Panels.
- Carved Columns and Pilasters.
- Carved Ceilings and Vaults.
- Other Carved Ornament.

Incrustation and Veneering.

- Of External Walls (in brick, stone, or marble, tiles, etc.).
- Of Interiors.
- Intarsia and Inlay.
- Niello-work.
- Enamel Decoration.

Mosaic.

- Mosaic Ceilings.
- Mosaic Walls.
- Mosaic Floors.
- Other Mosaic designs.

Stained Glass Design. For technical processes see 666.1; for history see 748.

- Geometric Windows.
- Medallion Windows.
- Canopy Windows.
- Figure Windows.
- Mosaic Windows.
- Other kinds of stained glass.

Architectural Accessories and Fixed Furniture.

- Altars.
- Pulpits. Tribunes.
- Dais. Thrones.
- Buffets.
- Mantels. Overmantels.
- Screens. Rood Screen. Reredos.
730 Sculpture.
731 Materials and Methods.
732 Ancient.
733 Greek and Roman.
734 Medieval.
735 Modern.
738 Pottery. Porcelain.


Collections on any subject go with that subject with reference from 741.

742 Perspective. See also 515.6.

743 Art Anatomy. Life School.

744 Mathematical and Scientific Drawing. See 515.

745 Ornamental Design. Woven Fabrics. Carpets. Wall Paper, etc.

746 Art Needlework. Fancy Work.


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 515.6, Optics.


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.

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.


774 Gelatine and Printer's Ink Processes. Alberotype. Heliotype. Artotype, etc.

775 Photo-lithography, etc.

776 Photo-zincography, etc.

777 Photo- engraving and Photo-electrotyping.

778 Special Applications. See 511.63, Astronomy. See 578, Microscopy.

779 Collections of Photographs.
Music.

781 Theory of Music.

1 Mathematical and Physical.
2 Elementary and General.
3 Harmony. Thoroughbass.
4 Counterpoint.
5 Musical Form.
6 Composition and Instrumentation.
8 Ancient Grecian Theories, Modes, and Forms.

782 Dramatic Music.

1 Grand Opera.
2 Epic. Wagnerian.
3 Other German Grand Opera.
4 French Grand Opera.
5 Italian Grand Opera.
6 Comic and Satirical.
7 Opera Bouffe.
8 Operettas and Cantatas. See 783.4.
9 Pantomimes. Masks, etc.

783 Sacred Music. See 245, Hymnology, Sacred Poetry or hymns alone; if with tunes they go in 783.9; 786.8, Organ; 786.7-8, Evangelistic use and Eucharistic music; 304.4, Public Worship.

1 Organ and Orchestral. Accompaniment.
2 Cathedral Services. Masses. Vespers, etc.
   21 Mass. Communion Services; 22, Common of the Mass; Kyrie, Gloria in Excelsis, Credo, Benedictus, Agnus Dei; 23, Proper of the Season; Offertory, Sequence, Gradual, Tract; 24, Choral Service; Antiphonal,Responsive; 25, Plain Song; 26, Litanies; 27, Lenten and Penitential; Good Friday, "Reproaches"; 28, Festival; Christmas, Easter, etc.; 29, Processional. Recessional.
6 Chorale. Tune. Carol.
8 Choir. Men and Boys. Quartet. Chorus.
Vocal Music.
2. Aria. Cavatina. Recitative. e.g. in Oratorio, Mass, Opera.
4. Popular Ballads. Volkslied e.g. Irish, Scotch, etc.
5. Festival. e.g. Sängerbund. Eisteddfod. Competitive.
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.
   Tonic-Sol-Fa.

Orchestral Music. For Dramatic Orchestral Music, see 785: Sacred.
1. Symphony. Three or more movements; e.g. Adagio,
   Andante, Allegro, Allegretto, Scherzo, Finale, etc.
2. Dramatic, Illustrative, Descriptive, Imitative.
   e.g. Mendelssohn's Mid-Summer Night's Dream.
5. Overture. e.g. Beethoven's "Leonores.
7. Chamber Music.
8. Suite.

Piano and Organ.
3. Instruction.
   .41 Sonata. Sonatina. Rondo.
   .42 Fantasia. Arabesque.
   .47 Études. Artistic. For Études for Instruction, see 786:3.
   .48 Variations. Transcriptions.
   .49 Arrangements. Four Hands and more. e.g. Orchestral Music
      arranged for Piano.
Organ. History.

Building.

Instruction.


.81 Sonata. .82 Fugue. .83 Preludes. .84 Inserludes. .85 Postludes. .86 Offerories. .87 Voluntaries, Improvisation. .88 Organ and Piano.

.89 Organ, Piano, and Orchestra.

Cabinet Organ. Melodeon.

Stringed Instruments.

Including with each, History, Manufacture, Instruction, Music, etc. Music for two instruments is put with the one most prominent in the composition.

Bowed.

.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 Stringed Instruments. Harpsichord.

Wind Instruments.

Including with each, History, Manufacture, Instruction, Music, etc.

Brass.

.1 Trumpet. Slide and Valve.

.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 Valve Bugle.

.48 Bass, Tuba and Contrabass Tuba. Serpent.

.49 Other.

Wood. Flute Group.


Wood. Reed Group.


.7 Oboe. D'amore. Da Caccia. Cor Anglais.


.9 Other Reed Wind Instruments. Bagpipe.
Percussion and Mechanical Instruments.

Percussion.

1. Drum.
2. Cymbals.
3. Triangle.
6. Other Percussion Instruments. Xylophone.

Mechanical.

7. Orchestrian.
8. Music Box.
9. Other Mechanical Instruments.

Amusements. For Ethics of amusements, see 174.

Public Entertainment.

Concert, Panorama, Circus, Menagerie, Summer Resort, Garden, Rink, Museum, Fair Festival.

Theater. Pantomime. Opera. See also 782, Dramatic music.

In-door Amusements.

Private Theatricals, Tableaux, Charades, Dancing.

Games of Skill.

Chess, Checkers, Billiards, Bowling, Bagatelle.

Games of Chance.

Cards, Dice, Backgammon, Dominoes.

Out-door Sports.

Children's Sports, Athletic Sports, Coating, Skating, Cycling, Quoits, Archery, Croquet, Lawn Tennis.

Boating and Ball.

Rowing, Yachting, Base-ball, Foot-ball, Cricket, F. A. A.

Horsemanship and Racing.

Fishing, Hunting, Target Shooting.
Literature

The classification of literature is by language not country, except that North and South American are separated from other English. Canadian French goes with Sp; Australian and Indian English with En; South American Spanish with Sp, etc. Numbers assigned to individual authors include only their literary works of that section and complete works which cannot 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 two periods has all his books put in the one where most of them belong.

800 Literature. General Works.
801 Philosophy. Theories. Literary Aesthetics.
802 Compendes. Outlines.
803 Dictionaries. Cyclopedia.
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 744-9. Vocal Culture; 18. Letters, Epistolology; 19. Satire, Humor; 20. Collections too general to go with any one language, e.g. a book of Quotations from many languages. These heads, 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, Compendes; .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.

.00, Dramatic; .01, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .08, Collections; .09, History of American Poetry.

.1 Colonial, 1607-1776.
.11 Sandys, George
.12 Bradstreet, Anne
.13 Wigginsworth, Michael
.14 Green, Joseph
.15 Livingston, William
.16 Ferguson, Elizabeth

.2 Post-Revolutionary, 1776-1830.
.21 Trumbull, John
.22 Dwight, Timothy
.23 Barlow, Joel
.24 Frenzenau, Philip
.25 Alsop, Richard
.26 Pierpont, John
.27 Dana, Richard Henry
.28 Sprague, Charles
.29 Minor Poets.
811.3 Middle 19th Century, 1830–1861.
.31 Halleck, Fitz-Greene 1790–1867.
.32 Poe, Edgar Allan 1809–1849.
.33 Bryant, William Cullen 1794–1878.
.35 Read, Thomas Buchanan 1822–1872.
.36 Whittier, John Greenleaf 1807–1892.
.37 Lowell, James Russell 1819–1891.
.38 Whitman, Walt 1819–1892.

4 Later 19th Century, 1861–
.41 Stoddard, Richard Henry 1825–
.42 Hayne, Paul Hamilton 1831–1886.
.43 Stedman, Edmund Clarence 1833–1908.
.44 Winter, William 1836–
.45 Miller, Cincinnatius Hiner, (Joaquin.) 1841–
.46 Taylor, Bayard 1825–1878.

812 American Drama.
.1 Colonial, 1607–1776.
.11 Warren, Mercy 1728–1814.
.12 Godfrey, Thomas 1736–1769.

.2 Post- Revolutionary, 1776–1830.
.21 Tyler, Royall 1757–1826.
.22 Dunlap, William 1766–1839.
.23 Hillhouse, James Abraham 1789–1841.
.24 Ingersoll, Charles Jared 1782–1862.

.3 Middle 19th Century, 1830–1861.
.31 Ritchie, Anna Cora Mowatt 1818–1870.
.32 Mathews, Cornelius 1817–1889.
.33 Boker, George Henry 1823–1890.

.4 Later 19th Century, 1861–

813 American Fiction.
.1 Colonial, 1607–1776.

.2 Post- Revolutionary, 1776–1830.
.21 Brackenridge, Hugh Henry 1748–1816.
.22 Rowson, Susanna 1762–1824.
.23 Brown, Charles Brockden 1771–1819.
.24 Cooper, James Fenimore 1789–1851.
.25 Ware, William 1797–1852.
.26 Neal, John 1793–1876.
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.31 Thompson, Daniel Pierce 1795–1868.
.32 Kennedy, John Pendleton 1795–1870.
.33 Hawthorne, Nathaniel 1804–1864.
.34 Judd, Sylvester 1813–1853.
.35 Simms, William Gilmore 1806–1870.
.36 Melville, Herman 1819–1891.

814 American Essays.

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.2 Post-Revolutionary, 1776–1830.

.21 Rush, Benjamin 1745–1813.
.22 Webster, Noah 1758–1843.
.23 Channing, William Ellery 1780–1842.

815 American Oratory.

.1 Colonial, 1607–1776.

.2 Post-Revolutionary, 1776–1830.

.21 Hamilton, Alexander 1757–1804.
.23 Wit, William 1772–1834.
.24 Randolph, John 1773–1833.
.25 Clay, Henry 1777–1852.
.26 Calhoun, John Caldwell 1782–1850.
.27 Webster, Daniel 1782–1852.
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<td>Sumner, Charles.</td>
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817 American Satire and Humor.

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<td>Bayles, Mather.</td>
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<td>Peters, Samuel Andrew.</td>
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<td>Fessenden, Thomas Green.</td>
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<td>Verplanck, Galian Crommelin.</td>
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<td>Shelton, Frederick William.</td>
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<td>Shillaber, B. F. (Mrs. Partington.)</td>
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#### 821 English Poetry

- **821.01** Dramatic
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#### 2 Pre-Elizabethan, 1400–1558

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#### 3 Elizabethan, 1558–1625

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   22 Udall, Nicholas 1505-1564.
   23 Bale, John 1495-1563.

3 Elizabethan, 1558-1625.
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   32 Marlowe, Christopher 1564-1593.
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   34 Jonson, Ben 1572-1637.
   35 Beaumont, Francis and Fletcher, John 1576-1625.
   36 Webster, John 1582-1632.
   37 Massinger, Philip 1584-1640.
   38 Ford, John 1586-1639.
   39 Minor Writers.

4 Post-Elizabethan, 1625-1702.
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   42 Etherege, Sir George 1637-1688.
   43 Crowne, John 1644-1699.
   44 Wycherly, William 1640-1715.
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   46 Congreve, William 1670-1729.
   47 Vanbrugh, Sir John 1664-1726.
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   52 Southerne, Thomas 1660-1746.
   53 Centlivre, Mrs. Susannah (Freeman) 1668-1723.
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   62 Foote, Samuel 1721-1777.
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- DeFoe, Daniel 1661-1731.
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- Richardson, Samuel 1689-1761.
- Sterne, Laurence 1713-1768.
- Smollett, Tobias George 1721-1771.
- Goldsmith, Oliver 1728-1774.
- Mackenzie, Henry 1745-1831.
- Arblay, Frances (Burney), madame d’ 1752-1840.

7 Early 19th Century, 1800-1837.

- Lewis, Matthew Gregory 1775-1818.
- Edgeworth, Maria 1776-1849.
- Scott, Sir Walter 1771-1832.
- Austen, Jane 1775-1817.
- Porter, Jane 1776-1850.
- Peacock, Thomas Love 1785-1866.
- Galt, John 1779-1839.
- Marryat, Frederick 1792-1848.

8 Victorian Period, 1837-.

- Brontë, Charlotte 1816-1855.
- Thackeray, William Makepeace 1811-1863.
- Dickens, Charles 1812-1870.
- Kingsley, Charles 1819-1875.
- Beaconsfield, Benjamin Disraeli, 1st earl of 1804-1881.
- Trollope, Anthony 1815-1882.
- Eliot, George 1819-1880.

9 Minor Writers.
824 English Essays.

3 Elizabthan, (Bacon,) 1558–1625.

4 Post-Elizabthan, (Locke), 1625–1702.

5 Queen Anne, 1702–1745.
   51 Shaftsbury, Anthony Ashley Cooper, 3rd 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 1712–1757.
   62 Kames, Henry Home, lord 1696–1782.
   63 Johnson, Samuel 1709–1784.
   64 Hume, David 1711–1776. See also 192.4.
   65 Hawsesworth, John 1715–1773.
   66 Goldsmith, Oliver 1728–1774. See also 821.64 and 823.64.
   67 Gibbon, Edward 1737–1794.
   68
   69 Minor Writers.

7 Early 19th Century, 1800–1837.
   71 Mackintosh, Sir James 1765–1832.
   72 Smith, Sydney 1771–1845.
   73 Jeffrey, Francis, lord 1773–1800.
   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–.
   81 De Quincey, Thomas 1785–1859.
   82 Carlyle, Thomas 1795–1881.
   83 Macaulay, Thomas Babington, 1st baron 1800–1859.
   84 Helps, Sir Arthur 1817–1875.
   85 Arnold, Matthew 1822–88.
   86 Ruskin, John 1819–1900.
   87
   88
   89 Minor Writers.
825 English Oratory. For Speakers see 808.4.
Subdivided by periods like 821.

.6 Later 18th Century, 1745-1800.
  .61 Chatham, William Pitt, 1st earl of             1708-1778.
  .62 Burke, Edmund                               1729-1797.
  .63 Fox, Charles James                          1749-1806.
  .64 Sheridan, Richard Brinsley                 1751-1816. See also 822.66.
  .65 Grattan, Henry                              1750-1820.
  .66 Pitt, William                               1759-1806.

826 English Letters.
Subdivided by periods like 821.

.2 Pre-Elizabethan, (Paston Letters,) 1400-1558.

.5 Queen Anne, 1702-1745.
  .51 Montagu, Lady Mary (Pierrepont) Wortley      1690-1762.
  .52 Chesterfield, Philip Dormer Stanhope, 4th earl of 1694-1773.
  .53

.6 Later 18th Century, 1745-1800.
  .61 Orford, Horace Walpole, 4th earl of          1717-1797.
  .62 Montagu, Mrs. Elizabeth (Robinson)          1720-1800.

827 English Satire and Humor.

.2 Pre-Elizabethan, 1400-1558.
  .21 Barclay, Alexander                           1475-1552.

.3 Elizabethan, 1558-1625.
  .31 Gascoigne, George                           1537-1577.
  .32 Harington, Sir John                         1561-1612.
  .33 Hall, Joseph                                1574-1636.
  .34 Marston, John                               1575-1634.
  .35 Donne, John                                 1573-1631.
  .36
  .37
  .38
  .39

.4 Post-Elizabethan, 1625-1702.
  .41 Wither, George                              1588-1667.
  .42 Butler, Samuel                              1612-1680.
  .43 Marvell, Andrew                             1620-1678.
  .44 D’Urfey, Thomas                             1625-1723.
  .45 Oldham, John                                1633-1683.
  .46 Brown, Thomas                               1663-1704.
  .47 King, William                               1663-1712.
  .48 Garth, Sir Samuel                           1663-1719.
  .49 Minor Writers.
Queen Anne, 1702–1745.

Ward, Edward 1667–1731.
Swift, Jonathan 1667–1745.
Mandeville, Bernard de 1670–1733.
Arbuthnot, John 1675–1735.
Pope, Alexander 1688–1744. See also 821.53.

Later 18th Century, 1745–1800.

Amory, Thomas 1691–1788.
Whitehead, Paul 1710–1774.
Junius 1679–1772.
Wolcott, John 1739–1819.
(pseud. Peter Pindar.)


Gifford, William 1757–1836.
Hood, Thomas 1798–1845.

Victorian, 1837–

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 division as 821. For Hymms, see 398.6; Proverbs, see 398.3. The same rule applies to other languages in 835, 848, etc.

Anglo-Saxon Literature.

Poetry.
Cædmon.
Beowulf.
Cynewulf.
Homilies and Religious.
Ælfric.
Alfred the Great.
Miscellaneous.
Historical and Biographical.
380 German Literature.

380.1 Philosophy; 1.2. Compendia; 1.3. Dictionaries; 1.4. Essays, Lectures, and Addresses on German Literature; 1.5. Periodicals; 1.6. Societies; 1.7. Study and Teaching; 1.8. Collections; 1.9. History.

381 German Poetry.

.00. Dramatic; 1.03. Romantic and Epic; 1.04. Lyric, Ballads; 1.05. Didactic; 1.06. Descriptive; 1.07. Satirical and Humorous; 1.09. History of German Poetry.

.1 Before the Crusades, -1150.
  1.1 "Hildebrandslied."
  1.2 Otfrid.
  1.3 "Ludwigslied."
  1.4 "Muspilli."

.2 Middle High, 1150-1300.
  2.1 "Nibelungenlied."
  2.2 "Gudrun," and minor folk epics.
  2.3 Heinrich von Veldeke -1200. See also 830.311 a.
  2.4 Wolfram von Eschenbach.
  2.5 Gottfried von Strassburg.
  2.6 Hartmann von Aue 1170-1220.
  2.7 Walther von der Vogelweide 1170-1230.
  2.8 Ulrich von Lichtenstein 1199-1276.
  2.9 Minor Writers.

.3 Period of Decline, 1300-1517.
  3.1 Horneck, Ottokar von.
  3.2 Hadamar von Laber.
  3.3 Hermann von Sachsenheim -1458.
  3.4 Büheler, Hans. "Die sieben weisen Meister." 1414-
  3.5 Kaspar von der Röhn. "Das Heldenbuch."
  3.6 "Theuerdank."
  3.7 "Die Hainouskinder."
  3.8 Mastersingers.
  3.9 Minor Writers.

.4 Reformation. New High, 1517-1625.
  4.1 Agricola, Martin 1486-1556.
  4.2 Waldis, Burkard 1490-1558.
  4.3 Alberus, Erasmus 1500-1553.
  4.4 Sachs, Hans 1494-1576.
  4.5 Ringwaldt, Bartholomäus 1530-1599.
  4.6 Rollenhagen Georg 1542-1609.
  4.7 Andreä, Johann Valentin 1586-1654.

.5 Period of Imitation, 1625-1750.
[The Silesian Schools.]
  5.1 Opitz von Boberfeld, Martin 1597-1639.
  5.2 Flemming, Paul 1609-1649.
  5.3 Logau, Friedrich von 1634-1655.
  5.4 Gerhardt, Paul 1667-1676.
  5.5 Hofmannswaldau, Christian Hofmann von 1618-1679.
  5.6 Zesen, Philipp von 1619-1689.
  5.7 Brockes, Ilarthuld Heinrich 1680-1747.
  5.8 Bodmer, Johann Jakob 1698-1783.
  5.9 Minor Writers.
831.6 Classic Period, 1750–1830.
[For Goethe and Schiller, see 832.6.]

.61 Gellert, Christian Fürchtetott 1715–1765.
.62 Klopstock, Friedrich Gottlieb 1724–1803.
.63 Bürger, Gottfried August 1718–1794.
.64 Herder, Johann Gottfried von 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 Post-Classic Period, 1830–1856.

.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 Heine, Heinrich 1799–1856.
.76 Niemöbel von Streihrenau, Nikolaus 1802–1850.
.78 Freiligrath, Ferdinand 1810–1876.
.79 Minor Writers.

.8 Later 19th Century, 1856–

.81 Scherf, Leopold 1784–1862.
.82 Kinkel, Johann Gottfried 1815–1882.
.83 Geibel, Emanuel 1815–1854.
.84 Bodenstedt, Friedrich Martin 1819–1892.
.85
.86
.87
.88
.89 Minor Writers.

832 German Drama.

.5 Period of Imitation, 1625–1750.

.51 Gryphius, Andreas 1616–1664.
.52 Lohenstein, Daniel Caspar 1635–1683.
.53 Weise, Christian 1642–1708.
.54 Gottsched, Johann Christoph 1700–1775.
.55 Gottsched, Luise Adelgunde Victorie (Culmus) 1713–1762.

.6 Classic Period, 1750–1830.

.61 Lessing, Gottlob Ephraim 1729–1781.
.62 Goethe, 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.
Post-Classic Period, 1830-1856.

- Griepenkerl, Wolfgang Robert 1810-1836.
- Grillparzer, Franz 1791-1872.
- Birch-Pfeiffer, Charlotte 1800-1868.
- Laube, Heinrich 1806-84.
- Hebbel, Friedrich 1819-1863.
- Gutzkow, Karl Ferdinand 1811-1878.
- Minor Writers.

Later 19th Century, 1856–

- Benedix, Julius Roderich 1811-1873.
- Mosenthal, Salomon Hermann 1821-1877.
- Brachvogel, Albert Emil 1824-1878.
- Gottschall, Karl Rudolph 1823–
- Lindau, Paul 1839–
- Minor Writers.

German Fiction.

Period of Imitation, 1625-1750.

- Buchholtz, Andrew Heinrich 1607-1671.
- Grimmelshausen, Hans Jakob Christoffel von 1625-1676.
- Anselm, Heinrich 1653-1697.
- "Robinsonaden."
- "Der Neue Amadis."

Classic Period, 1750-1830.

- Wieland, Christoph Martin 1733-1813.
- Richter, Jean Paul Friedrich 1763-1825.
- Hoffmann, Ernst Theodor Wilhelm 1776-1822.
- La Motte Fouqué, Friedrich H; C; 1777-1843.
- Hauff, Wilhelm 1802-1827.
- Chamisso, Adelbert von 1781-1838.
- Minor Writers.

Post-Classic Period, 1830-1856.

- Zachokke, Johann Heinrich Daniel 1771-1848.
- Brentano, Clemens 1778-1842.
- Tieck, Ludwig 1773-1853.
- Gerstäcker, Friedrich 1816-1872.
- Hackländer, Friedrich Wilhelm 1816-1877.
- Minor Writers.

Later 19th Century, 1856–

- Auerbach, Berthold 1815-1882.
- Freytag, Gustav 1816-1895.
- Scheffel, Joseph Viktor von 1826-1896.
- Spielhagen, Friedrich 1829–
- Heyse, Paul Johann Ludwig 1830–
- Ebers, Georg 1837-1898.
- Minor Writers.
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 Paffe Amis" und "Beispiele."
   22 "Salomon und Morolf."
   3 Period of Decline, 1300-1517.
      31 "Reineke Fos." See also 839-371.
      32 Brant, Sebastian 1458-1521.
   4 Reformation. New High, 1517-1625.
      41 Munzer, Thomas "Tyll Eulenspiegel." 1475-1537.
      42 Fischart, Johann 1550-1589.
   5 Period of Imitation, 1625-1750.
      51 Moscherosch, Johann Michael 1601-1669.
      52 Rachel, Joachim 1618-1669.
      53 Wernicke, Christian 1680-1720.
      54 Lisow, Christian Ludwig 1701-1760.
   6 Classic Period, 1750-1830.
      61 Rabener, Gottlieb Wilhelm 1714-1771.
      62 Blumauer, Alois 1755-1798.
838 German Miscellany. See 838, locc.
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.
            1200-1600.
               Lt. Jacob van Maerlant 1225-1291; (a, Helinium van Veldeke 1290, see 821-23.)
      312 Chambers of Rhetoric.
            1500-1600.
      313 Period of the Republic.
            1600-1710.
      314 Poetical Societies.
            1700-1800.
      315 Modern Period.
            1800-1900.
Dutch drama

Period of the Republic
- 1600-1700
  - Gerbrand Adriaenszoon Bredero 1585-1618
  - Cornelia van Hout 1581-1645
  - Samuel Costa 1580-1650
  - Jan van den Bergh 1582-1667
  - Guilhemens Oger 1609-1689
  - Joachim Oudaan 1638-1692
  - Minor writers

Poetical societies
- 1700-1800
  - Pieter Langendijk 1683-1756
  - Andries Pels
  - Balthasar Haydenbroeker 1693-1728
  - Onno Zwier van Haren 1713-1779
  - Jan Nomas 1725-1803
  - Minor writers

Modern period
- 1800-1845
  - Samuel Ipenaar Wiselius 1769-1845
  - Helvetius van den Bergh 1795-1865
  - Hendrik Jan Schimmel 1825-1890

Dutch fiction

Poetical societies
- 1700-1800
  - Elisabeth Bekker Wolff 1738-1804
  - Agatha Deken 1741-1804
  - HijBERS Feith 1753-1814

Modern period
- 1800-1845
  - Adriaan Looiers 1761-1816
  - Jacob Voerman 1783-1834
  - Jan Frederik Otmanus 1800-1854
  - Jacob van Lenssf 1809-1866
  - Hendrik Conscience 1812-1885
  - Anna Louisa Geertruida Boeboom-Tousaint 1812-1886

Dutch essays

Poetical societies
- 1700-1800
  - Justus Van Efften 1684-1735
  - Modern Period

  - Johannes Henricus van der Palm 1703-1840
  - Reinier Cornelis Bakker
  - van den Brink 1810-1862
  - Everhardus den Nooij 1838-1875
  - Nicolaas Beets 1814-1903
  - Coenraad Buiken Hout 1856-1886

Dutch satire and humor

Middle ages
  - Reinaard (van den vos Reinaerde) see 333,34

Poetical societies
- 1700-1800
  - Arend Simonsoonzoon Fokke 1735-1812

Dutch miscellany

Middle ages
  - Jan van Boendale (Jan de Clerc) Chronicles, 1580-1605

Poetical societies
- 1700-1800
  - Sim.n Stijl, History, 1731-1804
  - Jan Wagenaar, History, 1709-1773

Platt Deutsch

Scandinavian

Old Norse Icelandic Faroese

Swedish literature

Swedish poetry

Middle ages
  - Nicolaus Hermann 1391
  - Bishop Tomas 1443
  - Ericus Olai 1486
  - Ballads (Folkvisor)
  - Reformation

  - Olaius Petri 1496-1555
  - Laurentius Petri 1499-1573

  - Georg Stenham 1598-1672
  - Lars Johansson (Lucidor) 1640-1724
  - Hans G. Stolpe 1641-1714
  - Israel Holmström 1660-1708
  - Gunar Eriksen Dahlstjerna 1661-1709
  - Johan Runius 1799-1733
  - Jacob Frese 1694-1729
  - Samuel von Triewald 1688-1743

  - Age of Manner

  - Olof Carelius 1578
  - Olof von Dalin 1708-1763
  - Hedvig Charlotte Nor denflycht 1718-1765
  - Anders Odel 1728-1773
  - Gustav Filip Creutz 1729-1785
  - Gustaf Fredrik Gyllenborg 1731-1808
  - Olof Bergkist 1731-1805

  - Age of Gustavus

  - Karl Michael Bellman 1740-1795
  - Johan Henrik Kellgren 1751-1795
  - Bengt Thun 1757-1791
  - Johan Gabriel Oxenstierna 1750-1813

  - Age of Gustavus

  - Olof Stapell 1794-1803
  - Fredrik af Leopold 1754-1929
  - Olof Mikael Fransson 1772-1847

Modern period
- 1780-1800
  - Per Henrik Ling 1776-1839
  - Johan Olof Wallin 1779-1839
  - Eneas Teumer 1784-180
  - Erik Johan Stagnellius 1793-1823
  - Per Daniel Amadeus Atterborn 1790-1855
  - Karl Jonas Ludwig Almqvist 1793-1866
  - Johan Ludvig Runeberg 1804-1877
  - Karl Wilhelm Bottiger 1807-1879

Minor writers
Swedish Drama.

Reformation.


[639.72]

[839.72] 1520-1660.

Age of Stiernhjelm.

[1.1, Jakob Bork 1745-1797.]

[839.73]

[722] 1640-1740.

Age of Gustavus.


Modern Period.

[639.74] 1800-1900.


Swedish Fiction.

Age of Dalin.


Modern Period.

[1800-]


Swedish Essays.

Modern Period.


Satire and Humor.

Modern Period.


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.

Middle Ages.

[Canon Mattias, Bible Translators, -1301. Peder Månsson, Encyclopedias, -1345.]

Reformation.

[1600-1640.]


Age of Stiernhjelm.

[1640-1740.]


Age of Dalin.

[1640-1740.]


Modern Period.

[1600-]


Danish and Norwegian Literature.

Danish and Norwegian Poetry.

Middle Ages.

[1. Anders Sune:en; 2. Ballad (Kjempesvar).]

Reformation.

[Hans Tausen 1494-1502.]

Learned Period.

[1600-1700.]


Age of Holberg.

[1700-1750.]

Period of Enlightenment.

[1, Kristian Bruunmann Tulvin 1728-1765; 2, Johannes Ewald 1724-1761; 3, Johan Herman Vessel 1742-1785; 4, Edward Storm 1740-1794; 5, Kristen Henriksen Fraud 1726-1814; 6, Jens Baggesen 1744-1807; 7, Knud Lyne Rahbek 1760-1830; 8, Malte Konrad Bruun 1775-1806; 9, Minor Writers.]

Modern Period.

[1, Adam Gottlob Oehlenschläger 1779-1839; 2, Bernhard Severin Ingemann 1788-1851; 3, Nicolai Frederik Severin Grundtvig 1818-1872; 4, Johannes Christen Hach 1790-1820; 5, Henrik Wergeland 1812-1852; 6, Ludvig Bødtker 1793-1874; 7, Frederik Paludan-Müller 1809-1876; 8, Carl Pioung 1813-1849; 9, Minor Writers.]

Danish and Norwegian Drama.

Learned Period.

[1, Hieronymus Justesen Rauch 1539-1607; 2, Hans Kristensen Siben 1544-1603; 3, Peder Jensen Hegelund 1545-1614; 4, Hans Thomsen Stege; 5, Jens Leiberg 1609-1703; 6, Age of Holberg.

Age of Holberg.

[1, Ludvig Holberg 1684-1754.]

Period of Enlightenment.

[1, Charlotte Dorothea Biehl 1711-1788; 2, Johan Nordal Bruun 1752-1816; 3, Ole Johan Samoë 1739-1786; 4, Enevold Palens 1735-1801; 5, Thomas Thaarup 1749-1821; 6, Kristen Levin Sander 1767-1821; 7, Olef Kristen Obrene 1756-1827; 8, Peter Andreas Holberg 1753-1841; 9, Minor Writers.]

Modern Period.

[1, Caspar Johannes Boys 1791-1851; 2, Johan Ludvig Holberg 1701-1850; 3, Henrik Hertz 1768-1804; 4, Thomas Overkou 1786-1873; 5, Christian Knud Frederik Molbech 1821-1888; 6, Henrik Ibsen 1828-1906.]

Danish and Norwegian Fiction.

Modern Period.

[1, Thomasine Christine Gyllenborg-Ehrensævord 1777-1856; 2, Steen Steensens Blicher 1780-1848; 3, Christian Winther 1796-1876; 4, Hans Christian Andersen 1805-1875; 5, Meyer Aaron Goldschmidt 1819-1867; 6, Holger Drachmann; 7, Bjørnstjerne Bjørnson 1832-1910; 8, Danish and Norwegian Essays.]

Period of Enlightenment.

[1, Rasmus Nystup 1759-1829.]

Modern Period.

[1, Niels Mathias Petersen 1818-1865; 2, Sören Asby Ejstrupgaard 1813-1851; 3, Rudolph Keyser 1803-1864; 4, Peter Andreas Munch 1810-1863; 5, Johan Sebastian Cammermeyer Welhaven 1807-1871; 6, Georg Brande 1828-72.]

Danish and Norwegian Satire and Humor.

Period of Enlightenment.

[1, Peter Magnus Trokel 1744-1776; 2, Peder Kofod Trokel 1754-1784; 3, Thomas Kristoffer Bruun 1779-1849.]

Danish and Norwegian Miscellany.


Gothic.
840 French Literature.

841 French Poetry.

.03, Dramatic; .04, Romantic and Epic; .05, Lyric; .06, Didactic; .07, Descriptive; .08, Satirical and Humorous; .09, History of French Poetry.

.1 Early French, 842-1400.

.11 "Chanson de Roland." "Chanson de Geste."
.12 Wace, Robert.
.13 Marie de France.
.14 Chrestien de Troyes
.15 Queues de Bethune
.16 Thiibaut 4th, comte de Champagne
.17 Rutebeuf
.18 "Roman de la Rose."
   Guillaume de Lorris, 1193-1260. Jean de Meung, 1280-1330.
   Minor Poets.

.2 Transition Period, 1400-1500.

.21 Chartier, Alain 1356-1438.
.22 Orléans, Charles duc d'
.23 Coquillart, Guillaume
.24 Baude, Henri
.25 Villon, François
.26
.27
.28
.29 Minor Poets.

.3 Renaissance, 1500-1600.

.31 Daurat, Jean
.32 Du Bellay, Joachim
.33 Belleau, Remy
.34 Ronsard, Pierre de
.35 Thirard, Pontus de
.36 Baif, Jean Antoine de
.37 Saluste du Bartas, Guillaume de
.38 Desportes, Philippe
.39 Minor Poets.

.4 Classical Period, 1600-1715.

.41 Malherbe, François de
.42 Maynard, François
.43 Racan, Honorat de Buell, marquis de
.44 Chapelain, Jean
.45 La Fontaine, Jean de
.46 Deshoulières, Antoinette (du Ligier de la Garde), Madame
.47 Chaulieu, Guillaume Amfrie de
.48
.49 Minor Poets.
18th Century, 1715–1789.

- Rousseau, Jean Baptiste
- Racine, Louis
- Pomppignan, Jean Jacques de Franc, marquis de
- Delille, Jacques
- Roucher, Jean Antoine
- Chénier, André Marie de
- Fanny, Évariste Désiré Desforges, vicomte de

Minor Poets.

Revolution and Empire, 1789–1815.

- Lebrun, Ponce Denis Écouchard
- Fontanes, Louis, marquis de
- Parseval Grandmaison, François Auguste
- Lucre de Lancival, Jean Charles Julien
- Désaugiers, Marc Antoine Madeleine
- Campenon, François Nicolas Vincent
- Millevoye, Charles Hubert

Minor Poets.

Constitutional Monarchy, 1815–1848.

- Béranger, Pierre Jean de
- Delavigne, Jean François Casimir
- Deschamps, Émile
- Lamartine, Alphonse Marie Louis de Prat de
- Reboul, Jean
- Vigny, Alfred Victor, comte de
- Musset, Louis Charles Alfred de
- Hugo, Victor, comte de

Minor Poets.

Later 19th Century, 1848–

- Laprade, Pierre Marin Victor Richard de
- Dupont, Pierre
- Banville, Theodore Faullain de
- Sully-Prudhomme, René François Armand
- Coppée, Francis Édouard Joachim
- Derouillé, Paul

Minor Poets.

French Drama.

Early French, 842–1400.

- Mysteries and Miracles.
- Adam de la Halle (1240–1286)
- Boël, Jean.

Minor Dramatists.
Transition Period, 1400–1500.

Gresban, Arnoul.
Michel, Jean 1493.
Gringoire, Pierre 1480–1544.

Minor Dramatists.

Renaissance, 1500–1600.

Le Coq, Thomas.
Baif, Lazare de.
La Peruse, Jean Bastier de 1530–1555.
Jodelle, Étienne 1532–1573.
Grévillon, Jacques 1538–1570.
La Taille, Jean de 1540–1608.
Garnier, Robert 1545–1601.
Larive, Pierre de 1550–1612.

Minor Dramatists.

Classical Period, 1600–1715.

Corneille, Pierre 1606–1684.
Molière, Jean Baptiste Poquelin, called 1622–1673.
Corneille, Thomas 1623–1709.
Harsault, Edme 1636–1701.
Racine, Jean 1639–1699.
Brueys, David Augustin de 1640–1723.
Dufresny, Charles Rivière 1648–1724.
Baron, Michel Boyron, called 1653–1729.

Minor Dramatists.

18th Century, 1715–1789.

La Motte, Antoine Houdart de 1672–1731.
Crebillon, Prosper Jolyot de 1674–1762.
Destouches, Philippe Nercault 1680–1754.
Piron, Alexis 1689–1773.
Voltaire, François Marie Arouet de 1694–1778. See 843–34.
Sédaine, Michel Jean 1710–1797.
Beaumarchais, Pierre Augustin Caron de 1732–1799.

Minor Dramatists.

Revolution and Empire, 1789–1815.

Ducis, Jean François 1733–1816.
Collin-Harleville, Jean François 1735–1806.
La Harpe, Jean François de 1739–1803. See 844–61.
Fabre d’Églantine, Philippe François Nzaire 1755–1794.
Andrieux, François Guillaume Jean Stanislas 1759–1833.
Chenier, Marie Joseph 1764–1811.
Lemercier, Louis Jean Népomucène 1771–1840.

Minor Dramatists.
### Constitutional Monarchy, 1815–1848

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<td>Ancelot, Jacques Arsène François Polycarpe</td>
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<td>Vigny, Alfred Victor, comte de</td>
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<td>Hugo, Victor Marie, comte</td>
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### Later 19th Century, 1848–

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<td>Bornier, Henri de</td>
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### French Fiction

#### Transition Period, 1400–1500

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<td>Chastelain, Georges</td>
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#### Renaissance, 1500–1600

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#### Classical Period, 1600–1715

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<td>Scudéry, Madeleine de</td>
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<td>Cyrano de Bergerac, Savinien</td>
<td>1620–1655</td>
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<td>Perrault, Charles</td>
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<td>Lafayette, Marie Madeleine Pioche de la Vergne, comtesse de</td>
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18th Century, 1715–1789.

- Le Sage, Alain René 1668–1747.
- Marivaux, Pierre Carlet de Chamblain de 1688–1763. See 842.56.
- Prevost d'Exiles, Antoine François 1697–1763.
- Voltaire, François Marie Arouet de 1694–1778. See 842.56.
- Crébillon, Claude Prosper Jolyot de, fils 1707–1777.
- Rousseau, Jean Jacques 1712–1778.
- Restif de la Bretonne, Nicolas Edme 1734–1806.
- Florian, Jean Pierre Claris de 1755–1794.
- Minor Writers.

Revolution and Empire, 1789–1815.

- Stael Holstein, Anne Louise Germaine (Necker), baronne de 1766–1817.
- Constant de Rebecque, Henri Benjamin 1767–1830.
- Maistre, Xavier de 1763–1822.
- Chateaubriand, François Auguste René, vicomte de 1768–1848.
- Minor Writers.

Constitutional Monarchy, 1815–1848.

- Nodier, Charles 1790–1844.
- Balsac, Honoré de 1799–1850.
- Sue, Marie Joseph, called Eugène 1804–1857.
- Souvestre, Émile 1806–1854.
- Dumas, Alexandre, the elder 1806–1870. See 842.77.
- Gautier, Theophile 1811–1872.
- Hugo, Victor Marie, comte 1802–1885. See 841.78 and 842.78.
- Minor Writers.

Later 19th Century, 1848–

- Mérimée, Prosper 1803–1870.
- Feuillet, Octave 1822–1890.
- Flaubert, Gustave 1821–1881.
- Erckmann-Chatrian { Erckmann, Émile 1822–
  { Chatrian, Alexandre 1826–1890.
- About, Edmond François Valentin 1828–1885.
- Cherbuliez, Victor 1832–
- Daudet, Alphonse 1840–1897.
- Minor Writers.

French Essays.

Renaissance, 1500–1600.

- Montaigne, Michel Eyquem de 1533–1592.

Classical Period, 1600–1715.

- Du Vair, Guillaume 1556–1621.
- Saint-Évremond, Charles de Marguetel de Saint-denis de 1613–1703.
18th Century, 1715-1789.

.51 Fontenelle, Bernard le Bovier de 1657-1757.
.52 Montesquieu, Charles le Secondat, baron de 1689-1755.
.53 Alemont, Jean le Rond d' 1717-1783.

Revolution and Empire, 1789-1815.

.61 La Harpe, Jean François de 1739-1803. See 845.63.
.62 Joubert, Joseph 1754-1824.
.63 Courier de Méré, Paul Louis 1772-1825.
.64 Senancour, Étienne Pivert de 1770-1846.

Constitutional Monarchy, 1815-1848.

.71 La Mennais, Hugues Félicité Robert de 1782-1854.
.72 Villemain, Abel François 1790-1870.
.73 Flanche, Jean Baptiste Gustave 1808-1857.
.74 Sainte Beuve, Charles Augustin 1804-1869.
.75 Saint-Marc Girardin 1801-1871.
.76 Janin, Jules Gabriel 1804-1874.
.77 Nisard, Jean Marie Napoléon Désiré 1806-1888.

Later 19th Century, 1848–

.81 Quinet, Edgar 1803-1875.
.82 Renan, Ernest 1823-1892.
.83 Taine, Hippolyte Adolphe 1828-1893.


French Satire and Humor.

Early French, 842-1400.

.1 Guyot de Provins.
.12 "Roman du Renard." See 837.31 and 839.371.
.13 Deschamps, Eustache 1320-1400.

Renaissance, 1500-1600.

.31 Marot, Clément 1495-1544.
.32 Rabelais, François 1495-1553.
.33 "La Satyre Ménipée." 1594.
.34 Aubigné, Théodore Agrrippa d' 1550-1630.
.35 Regnier, Mathurin 1573-1613.

Classical Period, 1600-1715.

.41 Vioz, Théophile de 1590-1626.
.42 Saint Amant, Marc Antoine Gérard 1594-1661.
.43 Scarron, Paul 1610-1660.
.44 Beneside, Isaac de 1612-1691.
.45 Furetière, Antoine 1620-1698.
.46 Boileau Despréaux, Nicolas 1636-1711.
.47 Regnard, Jean François 1655-1709.

18th Century, 1715-1789.

.51 Gresset, Jean Baptiste Louis 1709-1777.
.52 Gillet, Nicolas Joseph Laurent 1751-1780.

Constitutional Monarchy, 1815-1848.

.71 Balthélyme, August Marseille 1796-1867.
.72 Barbier, Henri Auguste 1805-1882.

849 Provençal literature

.1 Provençal poetry

.11 1st period 900–1100
   Poetry in hands of clergy. No folk poetry preserved. Form mainly epic.
   Language not yet fixed. Country under rule of counts, nominally subject to
   emperor, really independent till 1486, then reunited to France

.111 Epic poetry
   Boethius

.112 Lyric poetry

.119 Minor poetry Didactic

.12 Golden age 1100–1300
   Poets mainly knights, but after 1250 almost exclusively burghers. Lyric most
   important

.121 Romances of chivalry
   Girart de Rossilho

.122 Historical poetry
   Croisade contre les Albigeois

.123 Romans d’aventures
   Flamenco

.124 Lyric poetry
   Bernart de Ventadorn flourished about 1140–1195

.125 Born, Bertran de " " 1180–1195

.126 Arnaut, Daniel " " 1180–1200

.128 Borneill, Guiraut de " " 1175–1220

.129 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

.13 Aftermath 1300–1500
   Downfall of language and literature owing to lack of content and to political
   and social causes, specially the crusade against the Albigeois

.131 Poets of school of Toulouse
   Arnaut Vidal, first recipient of the Golden Violet, 1374. Poetry artificial, a
   craft. Las Leyes d’Amor is the code of poetic laws, by Guillelm Molinier,
   chancellor of "Consistory de la gaya sciensa" established at Toulouse 1384.
   First prize a golden violet. When in danger of perishing, consistory revived
   in 1484 and poetic exercises styled "Jeux floraux"

.132 La Noble Leyczon
   Religious poetry of Waldenses

.139 Minor poetry

.14 Decadence 1500–
   Provençal sinks to position of a dialect despite futile attempts to revive it, the
   most recent, that connected with publication of Li Provençalo 1852

.141 Goudouli, Pierre de 1579–1649

.142 Despouairns, Cyprien 1698–1755

.143 Jasmin, Jacques 1708–1864

.144 Roumanille, Joseph 1818–1891

.145 Aubanel, Jos. Marie J. Baptiste Theodore 1829–1886

.146 Mistral, Frederic 1830–

.149 Minor poetry
Catalan Literature.

1st Period 1200-1350.
Catalonia before 1137 ruled by French Counts, then united to Aragon. Language is closely allied to Provencal, in which first poets wrote. MSS. scattered; few as yet printed; Literature begins with James 1st (1213-76) who made Catalan the state language.

For Ramon Muntaner see 849.981.4.

Second Period 1350-1450.
Imitation of Neo Provencal, French and Italian, specially of Dante, Petrarch and Boccacio. Some flashes of originality. Frn Rocaberti. Imitation of Dante.

Age of Perfection 1450-1500.
From 16th Century, Catalan literature merged in Spanish, tho' some writers still employ idiom, e.g. "Balaguer."

Catalan Fiction 1450-1400.
Joanet Martorel -1400. Tirant lo Blanch, a chivalric romance.

Miscellany.

1st Period 1200-1350.
Prose superior to poetry. Chronicles of great importance, culminating in Muntaner.

Second period 1350-1450
Prose resists foreign influences better than poetry. Many philosophical and theological writings beside historical works.
### 850 Italian Literature.


### 851 Italian Poetry.

0.09, Dramatic: 0.95, Romantic and Epic: 0.4, Lyric, Ballads: 0.09, Didactic: 0.09, Descriptive: 0.09, Satirical and Humorous: 0.09, History of Italian Poetry.

#### 1 Early Italian; Age of Dante, −1375

To death of Boccaccio, 1375.

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<td>Arezzo, Guittone d'</td>
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<td>Guinicelli, Guido</td>
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<td>Cavalcanti, Guido</td>
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<td>Pistoia, Cino da</td>
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<td>Uberti, Fazio degli</td>
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#### 2 Period of Classical Learning, 1375–1492.

From death of Boccaccio, 1375, to death of Lorenzo il Magnifico, 1492.

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| .24  | Poliziano, Angelo           | 1454–1494| See 852.08.38.10.48.39.19.
| .25  | Berivieni, Girolamo         | 1453–1482|
| .26  | Sannazzaro, Jacopo          | 1458–1530|
| .29  | Minor Poets                 |          |

#### 3 Age of Leo the Tenth, 1492–1542.

From death of Lorenzo il Magnifico, 1492, to Convocation of Council of Trent, 1542.

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<td>Rucellai, Giovanni</td>
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| .34  | Molza, Francesco            | 1483–1544| See 852.33.33.35.36.37.38.39.
| .35  | Tasso, Bernardo             | 1493–1559|
| .36  | Alamanni, Luigi             | 1495–1556|
| .37  | Guidicci, Giovanni          | 1500–1541|
| .38  | Casa, Giovanni della        | 1503–1556|
| .39  | Minor Poets                 |          |

#### 4 Later 16th Century, 1542–1585.

From Convocation of Council of Trent, 1542, to Pontificate of Sixtus V, 1585.

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Period of Decline, 1585-1748.

From Pontificate of Sixtus V., 1585-90, to Peace of Aix-la-Chapelle, 1748.

- 51 Chiabrera, Gabriello 1555-1637.
- 52 Marini, Giovambattista 1569-1625.
- 53 Testi, Fulvio 1593-1646.
- 54 Filicaja, Vincenzo 1642-1707.
- 55 Gisidi, Alessandro 1650-1712.
- 56 Manfredi, Eustachio 1674-1738.
- 57 Frugoni, Carlo Innocenzo 1692-1768.
- 58 Algarotti, Francesco 1712-1764.
- 59 Minor Poets.

Period of Renovation, 1748-1814.

From Peace of Aix-la-Chapelle, 1748, to Congress of Vienna, 1814.

- 60 Paradisi, Agostino 1736-1783.
- 61 Mascheroni, Lorenzo 1750-1800.
- 63 Monti, Vincenzo 1754-1838.
- 64 Cassi, Francesco 1778-1846.
- 65 Foscolo, Ugo 1779-1827.
- 66 Arici, Cesare 1782-1836.
- 67 Seintini, Bartolommeo 1792-1822.
- 68 Minor Poets.

Early 19th Century, 1814-1859.

From Congress of Vienna, 1814, to War of Independence, 1859.

- 71 Berchet, Giovanni 1783-1851.
- 72 Rossetti, Gabriello 1783-1854.
- 74 Marchetti, Giovanni 1790-1852.
- 75 Leopardi, Giacomo 1798-1837.
- 76 Carrer, Luigi 1801-1850.
- 77 Regaldi, Giuseppe 1809-1883.
- 78 Prati, Giovanni 1815-1884.
- 79 Minor Poets.

Later 19th Century, 1859-

From War of Independence, 1859, to

- 80 Aleardi, Aleardo 1810-1878.
- 81 Zanella, Giacomo 1820-1888.
- 82 Gnoli, Domenico 1836-.
- 83 Carducci, Giosuè 1835-1907.
- 84 Fogazzaro, Antonio 1842-1911.
- 85 Rapisardi, Mario 1844-.
- 86 Guerrini, Olindo 1845-.
- 87 Minor Poets.
Italian Drama.

1. Early Italian; Age of Dante, -1375.

2. Period of Classical Learning, 1375-1492.
   - Belcari, Feo 1410-1434.
   - Poliziano, Angelo 1454-1494. See 851.24.
   - Minor Dramatists.

3. Age of Leo the Tenth, 1492-1542.
   - Machiavelli, Niccolò 1469-1527. See 856.31.
   - Dovizi, Bernardo (Cardinal Bibbiena) 1470-1520.
   - Trissino, Gian Giorgio 1478-1550.
   - Aretino, Pietro 1492-1556.
   - Ambra, Francesco d' 1558.
   - Minor Dramatists.

4. Later 16th Century, 1542-1585.
   - Speroni, Sperone 1500-1588.
   - Giraldi, G. B. Cino 1504-1573. See 853.44.
   - Cecchi, Giovanni Maria 1517-1587.
   - Asinari, Federigo 1527-1576.
   - Porta, Giovambattista della 1538-1615.
   - Minor Dramatists.

5. Period of Decline, 1585-1748.
   - Buonarroti, Michelangiolo, Jr. 1564-1646.
   - Rinuccini, Ottavio 1565-1622.
   - Andreini, Giovambattista 1578-1650.
   - Gigli, Girolamo 1600-1722.
   - Zeno, Apostolo 1660-1730.
   - Maffei, Scipione 1675-1755.
   - Trasassi, Pietro (Metastasio) 1698-1782.
   - Minor Dramatists.

   - For Mancini, see 851.73 and 853.73.
   - Goldoni, Carlo 1707-1793.
   - Gozzi, Carlo 1722-1806.
   - Capacei Albergati, Francesco 1728-1804.
   - Alfieri, Vittorio 1749-1803.
   - Nota, Alberto 1775-1847.
   - Biondi, Luigi 1776-1839.
   - Benedetti, Francesco 1783-1821.
   - Minor Dramatists.

   - Niccolini, Giovambattista 1782-1861.
   - Pellico, Silvio 1788-1854.
   - Giacometti, Paolo 1816-1881.
   - Gherardi del Testa, Tommaso 1818-1872.
   - Ferrari, Paolo 1822-1899.
   - Minor Dramatists.
852.8 Later 19th Century, 1859—
.81 Bersezio, Vittorio 1830–1900.
.82 Cossia, Pietro 1833–1882.
.83 Carrera, Valentino 1834–1895.
.84 Marengo, Leopoldo 1831–1899.
.85 Cavallotti, Felice 1842–1898.
.86 Torelli, Achille 1844—
.87
.88 Minor Dramatists.

853 Italian Fiction.

.1 Early Italian; Age of Dante, —1375.
.11 "Cento Novelle Antiche" (Gualteruzzi's Collection).
.12 Barberino, Francesco da 1264–1348.
.13 Pisa, Guido da —1350.
.14 Gubbio, Bosone da
.15 Boecaccio, Giovanni 1313–1375.
.19 Minor Writers.

.2 Period of Classical Learning, 1375–1492.
.21 Sacchetti, Franco —1400.
.22 Fiorentino, Ser Giovanni
.23 Manetti, Antonio 1423–1497.
.24 Mangabotti, Andrea del
.25 Prato, Giovanni da
.29 Minor Writers.

.3 Age of Leo the Tenth, 1492–1542.
.31 Salernitano, Masuccio
.32 Bandello, Matteo 1480–1561.
.33 Molza, Francesco 1483–1544. See 857.34.
.34 Firenzuola, Agnolo 1493–1548.
.39 Minor Writers.

.4 Later 16th Century, 1542–1585.
.41 Grazzini, Antonfrancesco (Lasca) 1503–1583.
.42 Doni, Antonfrancesco 1513–1574.
.43 Erizzo, Sebastiano 1525–1585.
.44 Giraldi, G. B. Cinzio 1504–1573. See 859.42.
.45 Parabosco, Girolamo —1560.
.49 Minor Writers.

.5 Period of Decline, 1585–1748.

.6 Period of Renovation, 1748–1814.
853-7 Early 19th Century, 1814–1859.

- Rosini, Giovanni 1776–1855.
- Manzoni, Alessandro 1785–1873. See 851.73.
- Grossi, Tommaso 1791–1853.
- Guerrazzi, Francesco Domenico 1804–1873.
- Bresciani, Antonio 1798–1862.
- Cantù, Cesare 1807–1895.
- Carcano, Giulio 1812–1883.
- Aezeglio, Massimo d' 1800–1866.
- Minor Writers.

8 Later 19th Century, 1859–

- Castellazzo, Luigi 1827–1890.
- Barrili, Anton Giulio 1836–1908.
- Capuana, Luigi 1839–
- Verga, Giovanni 1840–
- Faldella, Giovanni 1846–
- Farina, Salvatore 1846–
- Giovagnoli, Raffaele 1838–
- Serao, Matilde 1856–
- Minor Writers.

854 Italian Essays.

.1 Early Italian; Age of Dante, -1375.

- Cavalca, Fra Domenico -1342.
- Passavanti, Fra Jacopo -1357.

.2 Period of Classical Learning, 1375–1492.

- Alberti, Leone Battista 1404–1472.
- Palmieri, Matteo 1405–1475.
- Bisticci, Vespasiano da 1421–1498.
- Collenuzzo, Pandolfo -1504.
- Minor Essayists.

.3 Age of Leo the Tenth, 1452–1542.

- Nardi, Jacopo 1476–1555.
- Castiglione, Baldassare 1478–1529.
- Guicciardini, Francesco 1482–1540.
- Giannotti, Donato 1494–1573.
- Giambullari, Pier Francesco 1495–1555.
- Gelli, Giovambattista 1495–1563.
- Varchi, Benedetto 1503–1566.
- Minor Essayists.
859 Wallachian Literature.
.1 Poetry; .2 Drama; .3 Fiction; .4 Essays; .5 Oratory; .6 Letters; .7 Satire and Humor; .8 Miscellany.

860 Spanish Literature.
860.1 Philosophy; .2, Compendia; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

861 Spanish Poetry.
.12, Dramatic; .13, Romantic and Epic; .14, Lyric, Ballads; .15, Didactic; .16, Descriptive; .17, Satirical and Humorous; .19, History of Spanish Poetry.

1 Early Spanish. -1369.
In 711 the Visigothic kingdom, founded in the 5th cent. was overthrown by Arabs; 711-148 Arabian Period or Age of Reconquest.
Literature began in first half of 12th cent. Earliest poetry, epic; subjects national, themes war and religion (861.11-12). These were followed by an erudite tendency towards classic tradition neglecting national themes (861.13 and 14) which were forever revived toward the close of the period (861.15) by continued victories over Moors under Alfonso Xth, 1252-59, 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. Through him (1) Provençal (and Galicia) 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 "Primitive Monuments."
12 "Poema de mio Cid."
13 Berc0e, Gonzalo de 1196-1266.
14 Segura de Aztopla, Juan Lorenzo 1250.
15 Yafez Ruy (Cronica del Rey Alfonso X.0neno). 1350.
16 Sem Tob, Rabbi 1350.
19 Minor Poets.

2 Age of Imitation. 1369-1516.
Henry ad to Carlos 1st, Charles 4th of Germany. 1470, Union of Castile and Aragon.
Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There were three distinct schools:
1. Provençal, specially influential at court.
2. Italian (Dante) or Allegorical, introduced by Francisco Imperial, a Genoese. (Mena, 861.25.)
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 1411-1436.
23 Mendoza, Ilígo Lopez de, Marques de Santillana 1298-1458.
24 Manrique, Jorge 1440-1479.
25 Los "Cancioneros" | Collections of poetry.
26 Los "Romances" | Collections of poetry.
27 Romancero del Cid.
"Romances" popular poetry, peculiar to Spain, and generally anonymous; period of production, from earliest times to 15th cent. Golden Age during reign of Ferdinand and Isabella, a grand reawakening coming with the fall of Granada, 1492.

30 Minor Poets.
Golden Age. 1516-1700.

Rule of House of Austria. Painting culminates in this period: Morales 1509-66; Coello 1515-90; Jornas 1521-74; The Herrera—16th cent.; Ribera 1588-1652; Zurbaran 1598-1664; Velasquez 1599-1660; Cano 1601-1667; Murillo 1618-1682, etc.

Pierce 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 Bocan 1500(?)-1543, culminated in Garcilaso (861.31). The protest against this in favor of national traditions is best represented by Castillejo (861.32). Mendoza (861.34) represents a conciliation. A fusion of two schools follows in which the Italian wins the major influence. Thereafter appear two new schools:

a. Classic, opposed to the fusion and represented by Leon (861.33) and the Argenosolas (861.34) and
b. 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 Ledeema 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 1503-1536.
32 Castillejo, Cristobal de 1494-1596.
33 Leon, Luis Ponce de 1528-1591.

Leon is equally important in prose.

34 Los Argenosolas: Lupercio, 1563-1613; Bartolomé Leonardo 1564-1631.
35 Herrera, Fernando de 1534-1597.
36 Mendoza, Diego Hurtado de 1593-1575.
37 Gongora y Argote, Luis de 1561-1657.
38 Rioja, Francisco de 1600-1659.
39 Minor Poets.

4 18th century. 1700-1800.

At death of Carlos and (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 (1702-34) in "La Poetica," etc. Thereafter a kind of revival.

Three schools formed:

1. Classic French. Moratin the elder (861.41); Cadalso (861.42); Yriarte (861.43) and Samaniego (861.44).
3. Salamanca School, an attempt to reconcile the first two, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (861.49) and Jovellanos (861.43). "Prosas" 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 (861.43). In epic, complete poverty.

41 Moratin (The elder), Nicolás Fernandez de 1737-1780.
42 Cadalso, José de 1741-1782.
43 Huerta, Vicente Antonio Garcia de la 1734-1757.
44 Samaniego, Félix Maria de 1745-1801.
45 Yriarte, Tomás de 1750-1791.
46 Valdés, Juan Melendez 1754-1817.
47 Iglesias de la Casa, José 1748-1791.
48 Cienfuegos, Nicasio Alvarez de 1764-1809.
49 Minor Poets.
1800—

Quintana, Manuel José 1772-1857.
Espronceda, José de 1810-1842.
Zorrilla y Moral, José 1817-90.
Gutierrez, Antonio García 1812-1884.
Gil y Zárate, Antonio 1792-1861.
Hartzenbusch, Juan Eugenio 1806-1880.
Minor Poets.

862 Spanish Drama.

.2 Age of Imitation. 1569-1516.
Evidences of existence of “mysteries” but no remains.
Enzina, Juan del (?1468-1534).
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 1300 dramas), 30,000 dramas composed by beginning of 18th cent. At opening of period Church tried to check development of profane drama placing nearly all in the “Index.” Torres Naharro (works pub. 1577) and Lope de Rueda (d. 1597) form transition from preceding period. Latter, reputed father of national theater. Lope de Vega (864.41) real founder. Drama culminates in Calderon (864.35); thereafter decadence.

Vega Carpio, Lope Felix de 1562-1635.
Castaño y Bélvis Guillen de 1567-1621.
Tellez, Gabriel (‘Tirso de Molina, pseud. (70) 1570-1648.
Alarcon y Mendoza, Juan Ruiz de (?1580-1639.
Calderon de la Barca, Pedro 1600-1681.
Rojas y Zorrilla, Francisco de 1607-.
Moreto y Cabaña, Agustin 1618-1669.
Minor Dramatists.

.4 18th Century. 1700-1800.
Period of unrest; old ideas cannot be reestablished, new cannot be naturalized.
For Moratin the elder, see 861.41 and Huerta, 861.43.

Comella, Luciano Francisco 1716-1779.
Moratin, Leandro Fernandez de 1760-1828.
Cruz, Ramon de la (Light comedies) 1731-1795.
Minor dramatists.

.5 19th Century. 1800-
Zorrilla (861.51), Gutierrez (861.54), and Rubí (861.52) represent “romantic” movement in Spanish drama. For Gil y Zárate, see 861.55; Hartzenbusch, 861.56.
Martinez de la Rosa, Francisco 1789-1862.
Rodriguez Rubí, Tomas 1817-1890.
Bretón de los Herreros, Manuel 1796-1873.
Minor dramatists.
863  Spanish Fiction.

.2  Age of Imitation.  1369–1516.
Immensely popular early in history and perhaps best known for Don Quijote.
[First part of Quijote printed 1505.]
.31  "Books of Chivalry."
.32  "Amadis de Gaula."
.33  "Celestina."

.3  Golden Age.  1516–1700.
Real novel replaces old books of chivalry about 1500. "Picaresca," or "rogue" novel
characteristic of this period; result of the state of society following wars of Charles
1st and Phillip 2d, e.g. Mendoza's "Lazarillo de Tormes." For Mendoza, see
861.36.
.31  Montemayor, Jorge de  1520–1561.
.32  Cervantes Saavedra, Miguel de  1547–1616.
.39  Minor novelists.

.4  18th Century.  1700–1800.

.5  19th Century.  1800–
For Breton de los Herreros, see 862.53; and Rodrigues Rubi, 862.52.
.51  Larra, Mariano José de [Figaro]  1809–1837.
.52  Mesonero y Romanos, Ramón de  1803–1882.
.53  Arroll, Cecilia Boehl de [Fernan Caballero]  1797–1877.
.59  Minor writers.

864  Spanish Essays.

865  Spanish Oratory.

Hardly any forensic and little sacred eloquence. When language and culture advanced,
privileges of Cortes restrained. Sacred eloquence less employed by Spanish church
than by French or English. Gongorism or "bad taste" conquers here as elsewhere.

.1  Early Spanish.  –1369.

.2  Age of Imitation.  1369–1516.

.3  Golden Age.  1516–1700.
For Luis de Leon, see 861.33; and Luis de Granada, 868.38.

.4  18th Century.  1700–1800.
For Jovellanos, see 868.41; and Valdés, 861.46.

.5  19th Century.  1800–
.51  Olozaga, Salustiano de  1803–1870.
.52  Castellar, Emilio  1832–1899.

866  Spanish Letters.

.3  Golden Age.  1516–1700.
Naturalness of old times changed with majestic court and rigid etiquette of
Charles 5th. For Santa Teresa, see 868.33.
.31  Avila, Juan de  1502–1569.
.32  Perez, Antonio  1540–1611.
.39  Minor writers.
867 Spanish Satire.

.1 Early Spanish. 1369.
Ruiz, Juan (Arcipreste de Ilita) 1350.

.2 Age of Imitation. 1369–1516.
"Coplas de Mingo Revalgo."

.3 Golden Age. 1516–1700.
Quevedo Villegas, Francisco Gomez de 1580–1645.

.4 18th Century. 1700–1800.
For Cadalso, see 861.42; and Moreto, the younger, 862.42.

.41 Jorge Pitillas (a pseudonym).
.42 Isla, José Francisco de (el Padre) 1703–1781.

868 Spanish miscellany.

.1 Early Spanish. 1369.

.11 Alfonso X., El Sábio 1221–1284.
.12 Sancho El Bravo (IV. of Castile) 1258–1295.
.13 Manuel, Juan 1282–1347.
.14 Alfonso XI. 1310–1350.
.19 Minor writers.

.2 Age of Imitations. 1369–1516.
General and special histories, books of travel, works called forth by Boccaccio’s "Corvaccio," etc.

.3 Golden Age. 1516–1700.
Didactic prose. Considerable development, though less than poetry, owing in a great measure to restraints political and religious. "Bad Taste" manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivedeneira and Luis de Leon, representatives of Mystic School. For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.2.

.31 Mariana, Juan de, Founder of Spanish History 1535–1623.
.32 Granada, Luis de 1504–1538.
.33 Teresa de Jesús, Santa 1515–1582.
.34 Cruz, San Juan de la 1542–1591.
.35 Rivedeneira, Pedro de 1527–1611.
.36 Saavedra Fajardo, Diego de 1534–1648.
.39 Minor Writers.

.4 18th Century. 1700–1800.
Under Carlos III (1759–1788) scientific studies took a fresh start, due largely to Feijoo who attempted intellectual emancipation of Spain. Prose advances under French influence — Gallicisms introduced.

.41 Feijoo and Montenegro, Benito Jerónimo 1676–1764.
.42 Jovellanos, Gaspar Melchor de 1744–1811.
.49 Minor writers.

.5 19th Century. 1800–
For Hartzenbusch, J. E., see 861.58.

.51 Gayangos, Pascual de 1800–1807.
.52 Rios, José Amador de los 1818–1878.
.53 Milá y Fontanals, Manuel 1818–1884.
.59 Minor writers.

869 Portuguese Literature.

.4, Poetry; 2, Drama; 3. Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany.
870 Latin Literature.

871 Latin Poetry in General.

See Dramatic, Epic and Lyric below.

.1 Lucretius Carus, Titus. See also 187.
.2 Ovid. (Publius Ovidius Naso.)
.3 Hyginus, Caius Julius.
.4 Faliscus, Gratius.
.5 Manilius, Marcus.
.6 Phaedrus.
.7 Lucilius Junior. "Ætna."

872 Latin Drama.

.1 Andronicus, Livius.
.2 Naevius, Cnæus.
.3 Plautus, Titus Maccius.
.4 Ennius.
.5 Terence. (Publius Terentius Afer.)
.6 Seneca, Lucius Annæus. See also 873.5.

873 Latin Epic Poetry.

.1 Virgil. (Publius Virgilius Maro.)
.2 Lucanus, Marcus Annæus.
.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 577.3.
.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.  See also 186.3.
.4  Philosophical Works.
.5  Messala Corvinus, Marcus Valerius.
.6  Quintilian. (Marcus Fabius Quintilianus.)

876  Latin Letters.

.1  Cicero, Marcus Tullius. For his other works see 875.1-875.4.
.2  Pliny. (Caius Plinius Cæcilius Secundus.)
.3  Fronto, Marcus Cornelius.

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  Cæsar, 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  Mediaeval 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

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 Isæus
   .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 883.4
   .1 Archilochus
   .2 Simonides of Samos
   .3 Hipponax

888 Greek miscellany
   .1 Herodotus
   .2 Thucydides
   .3 Xenophon
   .4 Plato See also 184.1 also Platonian 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: Poetry: 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

900 History in General.

A periodical on English History goes with 912, not 903, which is only for periodicals on History in General. A Zero 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 Compends, Chronologies, Charts, Outlines.

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 Polygraphy, Collected Works, Extracts, etc.

909 Universal and General Modern Histories.

For General Ancient Histories, see 930.

.1 A.D. 476—1199

.2 1200—1299

.3 1300—1299

.4 1400—1499

910 Geography and Travels.

Including Topography, Maps, Antiquities, Descriptions, etc.

For map projection, see 526.9. See also 316 Statistics, 920 Customs and Costumes.

For directories, guide books, gazetteers, etc., of special countries or geographical sections, see under those sections, 914-919.

.1

.2 Traveler's Manuals, Guidebooks.

.3 Dictionaries, Gazetteers.

.4 Circumnavigations, Ocean Travel, Ship Wrecks and Disasters, Pirates.

.5 Periodicals.

.6 Societies.

.7 Study and Teaching of Geography. School Map Drawing.

See 378.8, Primary Teaching of Geography.

.8 Collections of Travels, etc.

.9 History of Geography. 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. Celtic antiquities are 913, not 913.6, which is African

914 Europe

915 Asia

916 Africa

917 North America

918 South America

919 Oceanica and Polar regions

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 300-392. Lives of chemists are 924.4; of botanists, 925.8; of sailors, 926.6; 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 two figures 92, and the life of a botanist is 380 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
Individual and Collective by Subjects.

920.1 Bibliographers.
2 Librarians.
.3 Encyclopedists.
.5 Journalists.
.6 Academicians.
.7 Women. Collected, and individual lives not clearly going with any subject.
.8 Eccentrics, Cranks, Fools, Insane, &c. See also 132.1, Insanity.
.9 Other special classes not included in 921–928, e.g., Phrenologists, Somnambulists, Mind Readers, Magicians, &c.

921 Of Philosophy.
1 American
2 English. Scotch.
3 German.
.4 French.
5 Italian.
6 Spanish.
7 Slavic.
8 Scandinavian and Other Modern.

922.1–922.88 may be subdivided for nationality like 920–929.
2 Roman Catholic. Popes, Cardinals, &c.
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.
Non-Christian. Atheists.

Brahman. Buddhist.

Parsee.

Jews.

Mohammedan.

Mormon.

Minor non-Christian religions.

Of Sociology.

Chief Rulers. Kings, Queens, Emperors, Presidents.

Political Science. Legislative Dept., Governors, Politicians, Statesmen, Nobles, &c. For slaves, see 386-388.

Political Economy. Bankers, Capitalists, Financiers.


Criminals. For lives of pirates see 910.4

Administration. Army and Navy, Civil Service.

Associations and Institutions. Philanthropists, &c.

Education. Teachers, School Officers, Educators.

Commerce and Communication. R. R. Officials, Merchants, &c.

Manners and Communication. Society, Travelers, Discovery.

Of Philology.

Science.

Useful Arts.

Fine Arts.

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 917.86. Professors known as specializing with the subject taught rather than with teachers; e. g., a professor of geology 955.5, but if more prominent as an educator than as a geologist he goes in 953.7.

Genealogy and Heraldry.

Genealogies.

Families.

Registers of Births, Baptisms, Marriages, Deaths.

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  .3 Media.
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  .9 Susiana.

936 Kelts.
937 Rome. Italy.

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| .3 | Venetia. Istria. |
| .4 | Umbria. Picenum. Sabini, etc. |
| .5 | Etruria. |
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| .8 | Sicily, Syracuse. |
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Greece.

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.02 Growth of States. 775-750 B.C.
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.4 Boeotia. Megaris. Euboea.
.5 Attica.
.6 Peloponnesus.
.7 Corinthia. Achaia.
.8 Elis. Arcadia. Argolis.
.9 Messenia. Laconia. Sparta.

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.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.
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.31, Paphlagonia; 32, Galatia; 33, Pontus; 34, Cappadocia; 35
Cilicia; 36, Commagene; 37, Cyprus.
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.41, Upper Syria; 42, Cæle Syria; 43, Palmyra; 44, Phenicia, Tyre;
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.51, Scythia; 52, Sarmatia Asiatica; 53, Colchis; 54, Iberia; 55
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.6 South Central Asia.
.61, Sogdiana; 62, Hyrcania; 63, Margiana; 64, Bactriana; 65, Ariana.
.7 Minor African Countries.
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From the fall of Western Empire (Rome), A. D. 476.

.1 Medieval Europe. 476–1453.
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.5 Modern Europe. 1453—.

.6 The Renaissance Period. 1453–1517.
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.7 Age of the Reformation. 1517–1789.
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.8 Napoleonic Period. 1789–1815.

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.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 Victoria. 1837—

Geographical Divisions.

.1 Northern Scotland.
.11 Shetland; .12, Orkney; .13, Caithness; .14, Sutherland; .15, Cromarty; .16, Ross; .17, Hebrides.

.2 North Central Scotland.
.21 Inverness; .22, Nairn; .23, Elgin; .24, Banff; .25, Aberdeen; .26, Kincardine.

.3 South Central Scotland.
.31, Forfar; .32, Perth; .33, Fife; .34, Kinross; .35, Clackmannan; .36, Stirling; .37, Dunbarton; .38, Argyll; .39, Bute.

.4 Southern Scotland.
.41, Renfrew; .42, Ayr; .43, Lanark; .44, Linlithgow, Edinburgh; .45, Haddington, Berwick; .46, Peebles, Selkirk; .47, Roxburgh; .48, Dumfries; .49, Kirkcudbright, Wigtown.
941.5 Ireland.

**Period Divisions.**

| .51 | Early History. | 1086.  |
| .52 | Separate Kingdoms. | 1086-1172.  |
| .53 | Conquest by Henry II. | 1172-1399.  |
| .54 | Plantagenet. | 1399-1485.  |
| .55 | Lancaster and York. | 1485-1603.  |
| .56 | Tudors. | 1603-1691.  |
| .57 | Stuart. | 1691-1801.  |
| .58 | Closing with Treaty of Limerick. | 1801-  |
| .59 | Hanover. | 1801-  |
| .60 | Closing with the Union. | 1801-  |
| .61 | 19th Century. | 1801-  |

**Geographical Divisions.**

| .6 | Ulster. |
| .7 | Connaught. |
| .71 Leitrim; 72. Sligo; 73. Mayo; 74. Galway; 75. Roscommon.  |
| .8 | Leinster. |
| .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 | Munster. |
| .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 sovereign may be used; e.g., Henry VII is 942.051.

| .01 | Anglo-Saxon. | B. C. 55-A. D. 1066. |
| .02 | Prehistoric, Roman, British, Danish. |
| .03 | Norman. | 1066-1154. |
| .05 | Plantagenet. | 1154-1399. |
| .06 | 1, Henry II. 1154-1189; 2, Richard I. 1189-1199; 3, John 1199-1216; 4, Henry III. 1216-1272; 5, Edward I. 1272-1307; 6, Edward II. 1307-1327; 7, Edward III. 1327-1377; 8, Richard II. 1377-1399.  |
Lancaster and York. 1400-1485.

Tudor.
1485-1603.

Stuart.
1603-1714.
1649-1653; 4. Oliver Cromwell 1653-1658; 5. Richard Cromwell

Hanover.
1714-1837.
1. George I. 1714-1727; 2. George II. 1727-1760; 3. George III. 1760-

Victorian

Geographical 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. Stat-
ford; .47. Worcester; .48. Warwick.

.5 North and South Midland.
.51. Derby; .52. Notts; .53. Lincoln; .54. Leicester, Rutland; .55.
Northampton; .56. Huntingdon, Bedford; .57. Oxford, Buckingham;

.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. Westmore-
land; .89. Isle of Man.

.9 Wales.
.91. Anglesey; .92. Carnarvon, Merioneth; .93. Denbigh, Flint; .94.
Montgomery; .95. Cardigan; .96. Radnor, Brecknock; .97. Gla-
morgan; .98. Carmarthen; .99. Pembroke.
943 Germany and Austria.

Period Divisions.

Formative Period.
Wars with Rome. Charlemagne 800-814; Louis I 814-840; Lothaire I 840-843.

Empire before the Reformation.
1. Carolingian, 843-911: Louis II 843-876; Charles II 876-877; Charles III 877-878; Arnulf 879-899; Louis III 900-911.
5. House of Hohenstaufen and Interregnum, 1198-1272: Philip 1198-1208; Otto IV 1208-1212; Frederick II 1212-1250; Conrad IV 1250-1254; William of Holland 1254-1256; Richard of Cornwall 1256-1272.
6. Houses of Hapsburg, Luxembourg, etc., 1273-1378: Rudolph I 1273-1291; Adolphus 1291-1298; Albert I 1298-1308; Henry VII 1308-1313; Louis IV 1313-1347; Charles IV 1347-1378.
8. Albert II 1438-1439; Frederick III 1440-1493.

Reformation to 1618.

Disintegration.

Rise of Prussia.

Napoleonic Wars.
Leopold II 1790-1792; Francis II 1792-1806; Confederation of the Rhine 1806-1815.

Reorganization.
1815-1866.

New German Empire.
1866-.
1. North German Confederation 1866-1871; 2. Franco-German War 1870-1871; 3. William I 1871-88; 4. Frederick 1888; William II 1888-.

Geographical Divisions of Germany and Austria.

Prussia and Northern Germany.

Central Germany.
943.3 Bavaria.
.31, Upper Franconia; .32, Middle Franconia; .33, Lower Franconia; .34, Upper Palatinate; .35, Lower Bavaria; .36, Upper Bavaria; .37, Swabia.

944.4 Southern Germany.
.41, Hesse Darmstadt; .42, Rhenish Prussia; .43, Rhenish Bavaria; .44, Alsace; .45, Lorraine; .46, Baden; .47, Wurttemburg; .48, Black Forest and Danube; .49, Hohenzollern.

945.5 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.

97 Bohemia, etc.
.71, Bohemia; .72, Moravia; .73, Silesia; .74, Galicia; .75, Bukowina.

98 Poland. Including the history before the division.

99 Hungary, etc.
.91, Hungary; .92, Transylvania; .93, Slavonia; .94, Croatia, Fiume; .95, Bosnia; .96, Herzegovina.

944 France.

Period Divisions.

.01 Early History.
Ancient Celts — 59 B.C.; Roman Dominion 59 B.C. — 418 A.D.; Merovingian Dynasty 428-752; Carolingian 752-987.

.02 Capet and Valois.
House of Capet.
1, Hugh Capet 987-996; Robert II 996-1031; Henry I 1031-1060.
2, Philip I 1060-1108; Louis VI 1108-1137; Louis VII 1137-1180.
3, Philip II 1180-1223; Louis VIII 1223-1226; Louis IX 1226-1270.
4, Philip III 1270-1285; Philip IV 1285-1314; Louis X 1314-1316; John I 1316; Philip V 1316-1322; Charles IV 1322-1328.

House of Valois.
5, Philip VI 1328-1350; John II 1350-1364; Charles V 1364-1380.
6, Charles VI 1380-1422; Charles VII 1422-1461.
7, Louis XI 1461-1483; Charles VIII 1483-1498; Louis XII 1498-1515.

House of Angouëlle.
8, Francis I 1515-1547; Henry II 1547-1559.
9, Francis II 1559-1560; Charles IX 1560-1574; Henry III 1574-1589.

10 Bourbon.
1, Henry IV 1589-1610; 2, Louis XIII 1610-1643; 3, Louis XIV 1643-1715; 4, Louis XV 1715-1774; 5, Louis XVI 1774-1789.

11 Revolution.
1, National Assembly 1789-1792; 2, First Republic 1792-1799; 3, Convention, 1792-1795; 4, Reign of Terror; May 1793—July 1794; 5, Directory 1795-1799; 6, First Consulate, Napoleon, 1799-1804.

12 First Empire.
Napoleon I 1804-1814; Louis XVIII 1814-1815; The Hundred Days, March 20—June 29, 1815.
Restoration. 1815-1848.
1, Louis XVIII 1815-1824; 2, Charles X 1824-1830; 3, Louis Philippe 1830-1848.

Second Republic and Second Empire. 1848-1870.
Revolution of 1848; Second Republic, Louis Napoleon, Pres., 1848-1852.
Napoleon III 1852-1870.

Third Republic. 1870-
Franco-German War, Government of National Defence 1870-1871; National Assembly 1871; Presidency of Thiers 1871-1873; McMahon 1873-1879.
Grévy 1879-87, Sadi-Carnot 1887-91; Casimir Périer 1894-95; Faure 1895-99; Loubet 1899-1906; Paléologues 1906-

Geographical Divisions of France.

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.

Normandy. Picardy.
.21, Manche; .22, Calvados; .23, Orne; .24, Eure; .25, Seine Inférieure; .26, Picardy: Somme; .27, Artois: Pas de Calais; .28, Nord.

Champagne. Isle de France. Lorraine.
.31, Ardennes; .32, Marne; .33, Aube, Haute Marne; .34, Isle de France: Aisne; .35, Oise; .36, Seine et Oise, Paris; .37, Seine et Marne; .38, Lorraine: Meuse, Moselle; .39, Meurthe, Vosges.

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.

Orléans, etc. Auvergne.
.51, Eure et Loir; .52, Loiret; .53, Loir et Cher; .54, Touraine: Indre et Loir; .55, Berry: Indre, Cher; .56, Nièvre; .57, Bourbonnais: Allier; .58, Lyonnais: Loire, Rhône; .59, Auvergne: Puy de Dôme, Cantal.

Poitou. Limousin.
.61, Vendée; .62, Deux Sèvres; .63, Vienne; .64, Charente Inférieure; .65, Charente; .66, Limousin: Haute Vienne; .67, Corrèze; .68, Marche: Creuse.

Guénone. 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, Bearn: Basses Pyrénées.

Languedoc.
.81, Haute Loire, Lozère; .82, Ardèche; .83, Gard; .84, Hérault; .85, Tarn; .86, Haute Garonne; .87, Aude; .88, Poit: Ariège; .89, Pyrénées Orientales.

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.**

- Gothic and Lombard Kingdoms. 476–774.
- Frankish Emperors. 774–961.
- German Emperors. 962–1122.
- Hildebrand and Papal Supremacy.
- Age of the Communes. 1100–1300.
- Free Cities. Strifes of Guelphs and Ghibelines.
- Age of the Despots. 1300–1492.
- Age of Invasions. 1492–1527.
- Spanish-Austrian Ascendancy. 1527–1796.
- Struggle for Independence. 1796–1870.
- United Italy. 1870–
  - Victor Emanuel, Cavour, Garibaldi.

**Geographical Divisions of Italy.**

- 945.1 Piedmont and Liguria.
- 2 Lombardy.
- 3 Venetia.
- 4 Emilia.
- 5 Tuscany.
- 6 Marches, Umbria and Latium.
- 7 Naples.
  - 7, Abruzzo and Molise; 72, Campania; 73, Napoli; 74, Salerno;
  - 75, Apulia; 76, Lecce, Terra di Otranto; 77, Basilicata, Poteni;
  - 78, Calabria; 79, Reggio di Calabria.
- 8 Sicily. Malta.
- 9 Sardinia and Corsica.

946 Spain.

**Period Divisions.**

- Early History. Roman Dominion. Gothic Kingdom. 711.
- Moorish Kingdom. 711–1479.
- Ferdinand V and Isabella. Discovery. 1479–1516.
- Expulsion of the Moors.
- Philip III.—Charles IV. 1558–1608.
- Degeneration. 1, Philip III 1598–1621; 2, Philip IV 1621–1665; 3;
  - Charles II 1665–1700; 4, House of Bourbon; 5, Philip V 1700–
  - 1746; 6, Ferdinand VI 1746–1759; 7, Charles III 1759–1788; 8,
  - Charles IV 1788–1808.
- Peninsular War. 1808–1814.
- Later 19th Century. 1868—
  - Revolution of 1868–1870; Amadeus 1870–1873; Republic 1873–1875;
  - Alfonso XII 1875–85; Alfonso XIII 1886–
Geographical Divisions of Spain.

946.1 Galicia. Asturias.
.2 Leon. Estramadura.
.3 Old Castile.
.4 New Castile.
.5 Aragon.
.6 Basque Provinces.
.8 Andalusia. Canary Isles.
.9 Portugal.
  .98, Madeira; .99, Azores.

947 Russia.

Period Divisions.

.01 Primitive Russia.
.02 Varangian Kingdom. 862-1237.
  Conversion to Christianity.
.03 Mongolian Invasion. 1237-1462.
  Civil Wars.
.04 Ivan III—Ivan V. 1462-1689.
  Origin of Serfdom.
.05 Peter the Great. 1689-1725.
  Wars with Sweden and Turkey.
.06 Catharine I—Catharine II. 1725-1796.
  Partition of Poland.
.07 Paul I—Nicholas I. 1796-1855.
  War with Napoleon.
  Insurrection of Poland.
  Crimean War. See also 942.08; 944.07; 945.08; 949.6.
.08 Alexander II— 1855-1881.
  Emancipation of the Serfs.
  Turko-Russian War.
  Alexander III— 1881—

Geographical Divisions of Russia.

947.1 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.
Norway, Sweden, and Denmark.

Period Divisions.

.01 Legendary Period. — 800.
.02 Consolidation. Migration. 801-1597.
Introduction of Christianity.
Discovery of Iceland, Greenland, and America.
Conquest of Britain and Normandy.
.03 Union of the three kingdoms. 1397-1523.
Civilization. Foreign 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 XIV. (Bernadotte). 1818 —.
Peace. Internal reform.
.08 Geographical Divisions.

1 Norway.
2 Christiania.
3 Christiansand. Bergen.
4 Hamar. Throndhjem. Tromso.
5 Sweden.
6 Gothland.
7 Svealand.
8 Norrland.
9 Denmark.

Minor Countries of Europe.

1 Iceland. Faroe Islands.
   .01 Commonwealth, -1264; .02, Mediaevalism, 1264-1551; .03, Absolute Rule
   Decay, 1551-1848; .04, Modern Iceland, 1848 —.
2 Netherlands.
   .01, Early History, -1477; .02, Austrian Dominion, 1477-1566; .03, Wars of
   Independence, 1566-1648; .04, Age of Prosperity, 1648-1795; .05, Revolu-
   tionary, 1795-1830; .06, 19th Century, 1830 —.
3 Belgium.
4 Switzerland.
   .01, Early History, -1300; .02, Struggle for Independence, 1300-1499; .03
   Reformation, 1499-1648; .04, Period of Tranquility, 1648-1789; .05
   Period of Revolution, 1789-1815; .06, 19th Century, 1815 —.
949.5 Byzantine Empire and Modern Greece.

- Byzantine Revival. 323-716.
- Constantine the Great—Theodosius III.
- Byzantine Prosperity. 716-1057.
- Leo III—Michael VI.
- Byzantine Decline. 1057-1204.
- Isaac I—Latin conquest of Constantinople.
- Greek Survival. 1204-1453.
- Constantinople taken by the Turks. 1453.
- Turkish Power. 1453-1821.
- Greek Independence. 1821-.

.6 Turkey in Europe. 61, Constantinople.
.8 Roumania: Wallachia, Moldavia.
.9 Islands of Grecian Archipelago. Divided like 939.1.

950 Asia.

951 China.

- N. E. China, Peking; .2, S. E. China, Canton, Hong Kong, Formosa.
- S. W. China; .5, Thibet; .6, East Turkestan; .7, Mongolia; .8, Manchuria; .9, Corea.

952 Japan.

953 Arabia.

- Sinai; .2, Hejaz, Mecca; .3, Yemen; .4, Hadramaut, Mahrah; .5, Oman.
- .6, Hasa; .7, Dahna; .8, Nejd; .9, Syrian Desert.

954 India.

- Bengal, Orissa, Assam, Bhotan; .2, Northwest Provinces, Oudh, Nepal.
- Central Provinces; .4, Rajputana; .5, Punjab, Delhi, Lahore; .6, Cashmere; .7, Bombay, Sind, Baroda; .8, Madras, Mysore, Travancore,
- Ceylon; .9, Hyderabad.

955 Persia.

956 Turkey in Asia. See also 949.6.

- Khodavendikyar; .2, Aidin, Smyrna; .3, Kastamuni, Angora; .4, Konieh,
- Adana, Cyprus; .5, Trebizond, Sivas; .6, Erzerum, Diarbekr, Karpoot;
- .7, Baghdad, Kurdistan; .8, Aleppo; .9, Damascus, Phenicia, Palestine.

957 Siberia.


- N. E. Afghanistan, Cabul; .2, South Afghanistan, Candahar; .3, N. W.
- Afghanistan, Herat; .4, Turkestan; .5, Kiva; .6, Bokhara or Khokan; .8, Baluchistan.

959 Farther India.

- British Burmah; .2, Burmah; .3, Siam; .4, Laos; .5, Lower Siam, Malay
- Peninsula; .6, Cambodia; .7, French Cochinn China; .8, Anam; .9,
- Tonkin.
960 Africa.
961 North Africa.
   1. Tunis; 2. Tripoli; 3. Fezzan.
962 Egypt.
963 Abyssinia.
964 Morocco.
965 Algeria.
966 North Central Africa.
967 South Central Africa.
968 South Africa.
969 Madagascar. Mauritius.

970 North America.
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971 Canada. British America.
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   2. North-West Territory.
   3. Ontario.
   4. Quebec.
   7. Prince Edward Island.
   8. Newfoundland.
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  1 Toltec 2 Chichimec 3 Tarascan 4 Aztec 5 Maya
  — 1516

.02 Discovery and Spanish rule
  1516–1810

.03 Independence
  1810–1822

.04 First empire Iturbide
  1822–1845

.05 Pronunciamientos
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.06 Constitution of '57 Reform
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.07 French intervention
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.08 Later history
  1867

Geographic divisions

.1 Free zone and Northern states
  Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango

.2 Lower California and islands

.3 Central Pacific states
  Sinaloa, Jalisco, Colima, Michoacan

.4 Interior states
  Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato
  Querétaro, Hidalgo, Puebla, Tlascala, Morelos

.5 Mexico Federal district

.6 Southern Gulf states
  Veracruz, Tabasco, Campeche, Yucatan

.7 Southern Pacific states
  Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas

.8 Central America
  .81 Guatemala
  .82 British Honduras Belize
  .83 Honduras
  .84 San Salvador
  .85 Nicaragua
  .86 Costa Rica

.9 West Indies
  .91 Cuba
  .92 Jamaica
  .93 Santo Domingo
  .94 Hayti
  .95 Porto Rico
  .96 Bahamas
  .97 Leeward islands
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  .99 Bermudas
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1. Discovery 1607
2. Colonial 1607-1775
3. Revolution 1775-1789
4. Constitutional 1789-1809
5. War of 1812 1812-1815
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7. Civil war 1861-1865
8. Later 19th century 1865-1901

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11. Precolumbian

For precolumbian claims of Chinese, Norse,Welsh, etc., see .12 to .18 below

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Africans
Irish
Poles
Germans Martin Behaim
Italians

12. Chinese

Norse
Gunnbiorn
Eric the Red
Leif Ericson
Bjarni Herjulfson
Thorwald
Thorfinn Karlsefne

13. Welsh

Prince Madoc

15. Columbus

16. Spanish and Portuguese

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Amerigo Vespucci 1497-1504
Gaspar and Miguel Corte real 1500-02 Labrador
Juan Ponce de Leon 1513-21 Florida
Vasco Nuñez de Balboa 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 ProbySher 1576-78
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Bartholomew Gosnold 1602-07
French
Giovanni da Verrazano 1524
Jacques Cartier 1534-44 Canada
Jean Ribault 1562-65 Florida
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19 Other nations

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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

22 New England settlement 1620-43
Settlement of Plymouth 21 Dec. 1620 See 974.4 Mass. history
Pequot war 1636-37 Connecticut

23 New England confederacy 1643-64
United colonies of New England 19 May 1643
Commonwealth 1649-89
Oliver Cromwell 1655-58
Richard Cromwell 1658-60

24 Conquest of New Netherland 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

25 Early French wars 1689-1732
Witchcraft in New England See 133.4
King William’s war 1689-97
Sometimes called in Europe, War of the Palatinate
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Known in Europe as War of the Spanish succession

26 Extension of English rule 1732-63
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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

27 Last years of the colonies 1763-75
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Conspiracy of Pontiac 1763-64
Bouquet’s expedition 1763-64
Lord Dunmore’s war Apr.-Oct. 1774 Virginia

George 3 1760-1820
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1775-8

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-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 Illustrative material

.31 Political history; causes, results

For financial history see 336.73

.311 Causes 1775

1 Stamp act 1765
2 Navigation acts; mercantil policy
3 Burning of the Gaspe 17 June 1772
4 Boston massacre 5 Mar. 1770
5 Taxation and representation
6 Tax on tea 1767. Boston tea party 16 Dec. 1773
7 Boston port bill 1774

.312 Political history 1775-83

Continental congress See 348.73 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

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.317 Treaty of peace 1783
Concluded at Paris 3 Sep. 1783; ratified 14 Jan. 1784

.318 Confederation 1783-89
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Cession of western territory to United States

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.32 Diplomatic history; relations with other nations

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.33 Special campaigns and battles

.331 Campaigns of 1775

1 Lexington and Concord 19 April See also 973.364
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

.332 Events in the south
Campaigns of 1776

1. Campaign for the Hudson
   - Battle of Long Island 27 Aug
   - British occupation of New York

2. American retreat Sep–Nov. 1776
   - Harlem Heights 16 Sep.
   - Fort Washington 16 Nov

   - Trenton 26 Dec.
   - Princeton 3 Jan. 1777

4. Events in the south
   - North Carolina
     - Fort Moultrie, Sullivan's island 28 June

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.

   - 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

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 973.353
   - Wyoming 1–4 July

5. Mohawk valley
   - Cherry valley 11 Nov.
   - Brant. See also 970.3 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
Campaigns of 1779

1 Events in New England
   Tryon in Connecticut July
2 Penobscot expedition Aug. and Sept.
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 973.334

Campaign of 1780

1 Southern campaigns
   Waxhaws, N. C. 29 May
   Ramsour Mills, N. C. 20 June
   Leslie's expedition into Virginia Oct.
2 Siege of Charleston Mar.-May
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

Campaigns of 1781

1 Southern campaigns
   Guilford, N. C. 15 Mar.
3 Events in Carolinas May-Dec.
   Fort Ninety-Six, S. C. May-June
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.

Campaigns of 1782

Events of 1783

British evacuation of New York 25 Nov. See also 973.338
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English side

Mercenaries; Hessians

Indians

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.

1. New Hampshire
2. Vermont. Not then a state, admitted 1791
3. Massachusetts
4. Rhode Island
5. Connecticut
6. New York
7. Pennsylvania
8. New Jersey

Southern states
1. Delaware
2. Maryland
3. Virginia
4. North Carolina
5. South Carolina
6. Georgia

American auxiliaries

1. French

Special topics

Conway cabal 1777-78
Mutiny of Pennsylvania line Jan. 1781
Newburg addresses 1782-83

Naval history

Events of 1775
Capture of the Margareta June 12

Events of 1776
Escape of British sloop of war Glasgow 6 Ap.
Battle of Lake Champlain 11-13 Oct.
Gen. Benedict Arnold

Events of 1777
Lexington and Alert 20 Sep.

Events of 1778
French fleet at Newport

Events of 1779
Bon Homme Richard and the Serapis 23 Sep.

Events of 1780
Trumbull and Watt 2 June

Events of 1781
Alliance and British brigs Atalanta and Trepassey 28 May

Privateers
Celebrations, anniversaries, commemorations

These should usually be classed with the special event commemorated, but some anniversaries are of such general character as to be better classed here. For Patriotic societies of the revolution see 369.13

361 Fourth of July. See also 973.313
362 14th of April. See also 973.311
363 Evacuation day, New York. See also 973.330
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

375 Medical dep't; surgeons, nurses, etc.
376 Hospitals

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38 Personal narratives, vindications, secret-service
381 Treason and traitors. See also 973.314 Loyalists, Tories
382 Benedict Arnold
383 Charles Lee

384 Secret-service, spies
   American side. Nathan Hale
   British side. Major John Andre

39 Illustrative material
   These numbers should be used mainly for references. Poems, stories, etc. should usually be classed under their own numbers, 811, 812, etc. b special collections should be classed here.

391 Poetry
392 Drama
393 Fiction
394 Addresses
395 Sermons
396 Humor
397 Pictures
   Paintings, drawings, caricatures, engravings, photographs, sculpture
398 Music
399 Maps
Constitutional period 1789–1809


George Washington 30 Apr. 1789—4 Mar. 1797
Born 22 Feb. 1732; died 14 Dec. 1799
Sworn into office 30 Apr. 1789
National bank established 25 Feb. 1791. See 318–11
Vermont admitted, 14th state, 4 Mar. 1791. See 974–3
Kentucky admitted, 15th state, 1 June 1792. See 976–9

Indian wars
Harmar’s expedition 1790
St Clair’s expedition 1791

Washington’s second term 4 Mar. 1793—4 Mar. 1797
Neutrality proclamation 22 Apr. 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

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 392
Removal of capitol to Washington

Troubles with France
Naval battles; Constellation and L’Insurgent 9 Feb. 1800

Thomas Jefferson 4 Mar. 1801—4 Mar. 1809
Born 2 Apr. 1743; died 4 July 1826
Ohio admitted, 17th state, 19 Feb. 1803. See 977–1
Purchase of Louisiana 2 May 1803

Wars with Barbary states

Jefferson’s second term 4 Mar. 1805—4 Mar. 1809
Aaron Burr’s conspiracy 1806
See also 976,97 lives of Burr; and 343–1 Trials
Embargo act 22 Dec. 1807

War of 1812 1809–45

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 Apr. 1812. See 976–3
Indiana admitted, 19th state, 11 Dec. 1816. See 977–2
War of 1812

War declared 18 June 1812. Treaty of peace 24 Dec. 1814

Political history; causes, results

Hartford convention

Diplomatic history

Special campaigns and battles

1. Campaign in northwest
   Included 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

General military history

1. English side

2. Indian allies

3. American side in general
   Divided like 973. 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 973

6. Gulf states
   Divided like 976

7. Lake states
   Divided like 977
Naval history

1 Events of 1812
Constitution and Guerrière 19 Aug.
Wasp and Frolic 18 Oct.
Constitution and Java 20 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.
Enterprise 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 Apr.
Wasp and Reindeer 28 June
Wasp and Avon 1 Sep.
Wasp and Atlanta 21 Sep.

6 Events on inland waters
Battle of 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 narratives, vindications, secret service

529 Illustrative 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 976.3
Illinois admitted, 21st state, 3 Dec. 1818. See 977.3
Purchase of Florida 25 Feb. 1819
Alabama admitted, 22nd state, 14 Dec. 1819. See 976.1
Maine admitted, 23rd state, 15 Mar. 1820. See 976.1
Missouri compromise. See 396.973 and 973.7113
Missouri admitted, 24th state, 10 Aug. 1821. See 977.8
Monroe doctrine Dec. 1823. See 397.73
Tariff act 22 May 1824. See 337

541 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
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 338. 11
Whig party. See 394. 2
Compromise tariff act 3 Mar. 1833. See 237
Independence of Texas 2 Mar. 1836. See 296. 4
Arkansas admitted, 26th state, 15 June 1836. See 306. 7
Specie circular 11 July 1836. See 316. 13
Michigan admitted, 26th state, 26 Jan. 1837. See 317. 4
Nullification. See also 346. 73
Webster and Hayne debate 25–27 Jan. 1830
Nullification ordinance, South Carolina 24 Nov. 1832
Black Hawk war 1832

Martin Van Buren 4 Mar. 1837 — 4 Mar. 1841
Born 5 Dec. 1782; died 24 July 1862
Panic of 1837. See 339
Alton riot 7 Nov. 1837. See 346. 973
Burning of Caroline 26 Dec. 1837
Northeast boundary, Aroostook war, Feb., Mar. 1839
Amistad case 1839

Second Seminole war 1835–42

William Henry Harrison 4 Mar. 1841 — 4 Apr. 1841
Born 9 Feb. 1773; died 4 Apr. 1841
John Tyler 4 Apr. 1841 — 4 Mar. 1845
Born 29 Mar. 1790; died 17 Jan. 1862
Dorr's rebellion May–June 1842. See 276. 5
Ashburton treaty, northeast boundary
Texas annexation resolution 28 Feb. 1845
Florida admitted, 27th state, 3 Mar. 1845

War with Mexico 1845–61
James Knox Polk 4 Mar. 1845 — 4 Mar. 1849
Born 2 Nov. 1795; died 15th June 1849
Texas annexed, 28th state, 29 Dec. 1845. See 396. 4
Wilmot proviso adopted by house 8 Aug. 1846 See also 273. 713
Iowa admitted, 29th state, 28 Dec. 1846. See 277. 7
Wisconsin admitted, 30th state, 29 May 1848. See 277. 4
Free soil party; Buffalo convention Aug. 1848. See 346. 6
Northwest boundary; Oregon; treaty with England 13 June 1846
Mexican war. 1845–48.
War declared 13 May 1846; treaty of peace 30 May 1848
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Annexation of Texas
Acquisition of California, Nevada, Utah, Arizona, etc.
Diplomatic history
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
   Matamoras 18 May
5 In Mexico
   Monterey 20–25 Sep. 1846
   Buena Vista 22–23 Feb. 1847
6 Scott's campaign
   Vera Cruz 22-29 Mar. 1847
7 Battles near Mexico
   Contreras 19-20 Aug.
   San Antonio 20 Aug.
   Churubusco 20 Aug.
8 Capture of Mexico
   Molino del Rey 8 Sep.
   Chapultepec 12-13 Sep.
   Mexico 14 Sep.
9 General military history
   Naval history
   War meetings, celebrations, anniversaries
   See note under 72-96; also 360-145 Aztec club of 1847
   Prisons, hospitals, etc.
   Personal narratives
   Illustrative material. See note under 973-39

5 Mar. 1849 — 9 July 1850
Zachary Taylor
   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 316-973 and 973-7113

9 July 1850 — 4 Mar. 1853
Millard Fillmore
   Born 7 Feb. 1800; died 7 Mar. 1874
   Clayton-Bulwer treaty 4 July 1850. See 386
   California admitted, 31st state, 9 Sep. 1850. See 970-4
   Fugitive slave law 18 Sep. 1850. See 366-973
   Popular sovereignty, or squatter sovereignty. See 348-73 and 366-973
   Filibustering expeditions to Cuba 1849-51. See 972-91

4 Mar. 1853 — 4 Mar. 1857
Franklin Pierce
   Born 23 Nov. 1804; died 8 Oct. 1869
   Know-nothing party. See 395-5
   Republican party. See 390-6
   Com. Perry’s expedition to Japan 1852-54. See 915-8 and 341-173
   Gadsden treaty with Mexico for purchase of southern Arizona
   and New Mexico 30 June 1854
   Kansas-Nebraska bill 30 May 1854. See 316-973, 978-1 and 978-2
   Ostend manifesto 18 Oct. 1854. See 972-91
   Walker’s filibuster expedition against Nicaragua 1855. See also 978-84

4 Mar. 1857 — 4 Mar. 1861
James Buchanan
   Born 23 Ap. 1791; died 1 June 1868
   Dred Scott decision 6 Mar. 1857. See 366-973 and 973-7113
   Lecompton constitution, Kansas; proslavery 7 Nov. 1857. See 978-4
   Minnesota admitted, 32nd state, 11 May 1858. See 977-4
   Oregon admitted, 33rd state, 14 Feb. 1859. See 975-5
   John Brown’s raid 16-17 (Oct. 1859. See 973-7116 and 366-973
   Kansas admitted, 34th state, 29 Jan. 1861. See 974-1
War of secession

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.72 Diplomatic history
.73 Special campaigns and battles
.74 General military history
.75 Naval history
.76 Celebrations
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Abraham Lincoln

1861–1865

Born 12 Feb. 1809; died 15 Apr. 1865
1st term 4 Mar. 1861—4 Mar. 1865; 2nd term 4 Mar. 1865—15 Apr. 1865

.71 Political history; causes, results

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Nevada admitted, 36th state, 31 Oct. 1864. See 975.3

.711 Causes

1 Slavery. See also 366
2 Extension of slavery
   Annexation of territory
   Slavery in the territories
3 Compromises
   Missouri compromise 1850. 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 Fugitive 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 preserve 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 formed 4 Feb.
   Virginia 17 Apr.
   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 318.

.714 Results of the civil war
   Emancipation proclamation 1 Jan. 1863. See 365.8
   Freedmen’s bureau. See 361
   For the present condition of negro, see 375.26
   For negro colony in Africa, Liberia, see 355.6; history of Liberia 365.6
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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 these volumes can be used as a minute subject index for subdivisions of 973.73  |
| .731 | Campain of 1861  |
| 1 | Operations in Charleston harbor, S. C. 20 Dec. 1860-14 Apr. 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 Apr.-31 July  
Riot at Baltimore, Md. 19 April  
Engagement at Big Bethel, or Bethel Church, Va. 10 June  
Battle of Bull Run, or Manassas, Va. 21 July  |
| 4 | Missouri, Arkansas, Kansas, Indian territory 10 May-19 Nov.  |
| 5 | Texas, New Mexico, Arizona 11 June-1 Feb. 1862  
Kentucky, Tennessee 1 July-10 Nov.  
North Carolina, southeastern Virginia 1 Aug.-11 Jan. 1863  
Maryland, northern Virginia, West Virginia 1 Aug.-17 Mar. 1862  
Engagement at Ball’s Bluff, Va. 21 Oct.  
S. Carolina, Georgia, middle and east Florida 21 Aug.-11 Apr. 1862  |
| .732 | Campain of 1862  |
| 1 | West Florida, southern Alabama, southern Mississippi, Louisiana 1 Sep. 1861-12 May 1862  
Capture of New Orleans, La. 18 Apr.-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 Apr. 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 973.718  
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 Apr.-10 June  |
| 6 | Battle of Pittsburg Landing, or Shiloh, Tenn. 6-7 Apr.  |
| 7 | Peninsular campaign, Va. 17 Mar.-2 Sep.  
Siege of Yorktown, Va. 5 Apr.-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 T. Dep’t of N W. 10 Apr.-20 Nov.  |
Campaign of 1862 continued

1 South Carolina, Georgia, middle and east Florida 12 Apr. 1862–11 June 1863
2 West Florida, southern Alabama, southern Mississippi, Louisiana 12 May 1862–14 May 1863
   Texas, New Mexico, Arizona 20 Sep. 1862–14 May 1863
4 West Tennessee, northern Mississippi 10 June–20 Jan. 1863
   Battle of Corinth, Miss. 3–4 Oct.
5 North Carolina, southeastern Virginia 20 Aug. 1862–3 June 1863
6 Northern Virginia, West Virginia, Maryland, Pennsylvania
   3 Sep.–14 Nov.
   Battle of South Mountain, Md. 14 Sep.
   Battle of Antietam, or Sharpsburg, Md. 16–17 Sep.
7 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 1 Nov.–20 Jan. 1863
   Battle of Stone river, or Murfreesboro, Tenn. 31 Dec. 1862–3 Jan. 1863
8 Northern Virginia, West Virginia, Maryland, Pennsylvania
   15 Nov.–25 Jan. 1863
9 Battle of Fredericksburg, Va. 11–15 Dec.

Campaign of 1863

1 Missouri, Arkansas, Kansas, Indian territory, Dept' of Northwest 20 Nov. 1862–31 Dec. 1863
2 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 21 Jan.–10 Aug.
   Middle Tennessee, or Tullahoma campaign 23 June–7 July
   Morgan's Ohio raid 2–26 July
3 Mississippi, west Tennessee 20 Jan.–10 Aug.
4 Siege of Vicksburg, Miss. 19 May–4 July
5 Northern Virginia, West Virginia, Maryland, Pennsylvania
   26 Jan.–3 June
6 Chancellorsville, Va. campaign 27 Apr.–6 May
7 West Florida, southern Alabama, southern Mississippi, Louisiana, Texas, New Mexico 14 May–31 Dec.
   Siege of Port Hudson, La. 21 May–8 July
9 Battle of Gettysburg, Pa. 1–3 July
Campaign of 1863, continued

1 South Carolina, Georgia, middle and east Florida 12 June-31 Dec.
   - Occupation of Battery Wagner, S. C. 6-7 Sep.
2 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania
3 Kentucky, southwest Virginia, Tennessee, Mississippi, north
4 Chickamauga, Ga. campaign, 16 Aug.-22 Sep.
5 East Tennessee campaign 16 Aug.-19 Oct.
6 Kentucky, southwest Virginia, Tennessee, Mississippi, north
7 Knoxville, Tenn. campaign 4 Nov.-23 Dec.
   - Siege of Knoxville, Tenn. 17 Nov.-4 Dec.
8 Chattanooga-Ringgold campaign 23-27 Nov.
   - Battle of Lookout mountain, Tenn. 24 Nov.
   - Battle of Missionary ridge, Tenn. 25 Nov.

Campaign of 1864

1 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama,
   - north Georgia 1 Jan.-30 Apr.
   - Meridian, Miss. expedition 3 Feb.-6 Mar.
   - Forrest's expedition into west Tennessee and Kentucky
   - 16 Mar.-14 Apr.
   - Capture of Fort Pillow, Tenn. 12 Apr.
   - 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
6 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
Campaign 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.

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.

8 South Carolina, Georgia, Florida 14 Nov.-31 Dec.
Savannah, Ga. campaign, or Sherman's march to the sea 15 Nov.-31 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.

Campaign of 1865

1 Northern and southeastern Virginia, North Carolina, West Virginia, Maryland, Pennsylvania 1 Jan.-30 June
Expedition to and capture of Fort Fisher, N. C. 3-17 Jan.

Battle of Five Forks, Va. 1 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

8 Mobile, Ala. campaign 17 Mar.-4 May

9 Pacific coast 1 Jan. 1861-30 June 1865
General military history

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 service
   Guerrillas
   Commissariat
8 General orders
9 Regimental losses

Southern side
Guerrillas

Foreign elements
Divided like 940

Separate states and regimental histories
Divided like 973-979, 973-974, 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 Heavy artillery
G Light artillery
J-L Infantry
J regiments 1-99
K regiments 100-199
L regiments 200-999
The individual regiment is marked by adding its number after the letter: E 45, 45th regiment of cavalry; K 49, 49th regiment of infantry.
When there are more than 9 regiments o must be prefixed to the number for the set 10 regiments. J o 9 9th regiment of infantry.
For the border states which also had regiments on the confederate side use similarly P-S.
P Cavalry
Q Heavy artillery
R Light artillery
S Infantry
For those states which passed 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 unnumbered and peculiarly numbered regiments and companies.
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 973-19 and its subdivisions.

Events of 1861

Hatteras inlet, N. C. 28 Aug.  See also 973-1916
Fort Royal, S. C. 7 Nov.  See also 973-1919
Belmont, Mo. 7 Nov.  See also 973-1915
Trent affair 8 Nov.  See also 973-1922

Events of 1862

Fort Henry, Tenn. 6 Feb.  See also 973-1923
Roanoke island, N. C. 7-8 Feb.  See also 973-1924
Fort Donelson, Tenn. 14 Feb.  See also 973-1928
Monitor and Merrimac 8-9 Mar.
Island no. 10, Ky. 16 Mar.-8 Ap.  See also 973-1935
New Orleans, La. 18 Ap.-1 May.  See also 973-1931
Memphis, Tenn. 5 June.  See also 973-1935

Events of 1863

Charleston, S. C. 7 Ap.  See also 973-1931
Vicksburg, Miss. 16 Ap.  See also 973-1943
Grand Gulf, Miss. 29 Ap.  See also 973-1943

Events of 1864

Red river, La. expedition 10 Mar.-22 May.  See also 973-1949
Sassacus and Albemarle, Albemarle sound, N. C. 5 May
See also 973-1945
Alabama and Kearsearge, off Cherbourg, France 19 June
Mobile bay, Ala. 5-22 Aug.  See also 973-1978
Fort Fisher, N. C. 24 Dec.  See also 973-1975

Events of 1865

Fort Fisher, N. C. 14-15 Jan.  See also 973-1983

History of special squadrons or ships

Atlantic squadron
Gulf squadron

Confederate navy

Including the history of special squadrons or ships.
Alabama
Shenandoah
Florida

Blockade and blockade running

Privateers

War meetings, celebrations, anniversaries, commemorations

See note under 973-36
For patriotic societies commemorating the civil war see 360.15-17

War meetings

Flags; presentations of flags; Battle-flag day

Monuments, memorials.  See also 718

Roll of honor.  List of dead.  For national cemeteries, see 719

Memorial day
Prisons, hospitals, charities, etc.

Southern prisons, prison life
1. Andersonville
2. Libby prison

Northern prisons

Exchange of prisoners, paroles

Medical dept., surgeons, nurses. For military surgery see 617.99

Hospitals, hospital sketches

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, 331.5

Religious life, chaplains, revivals
1. U. S. Christian commission. See also 367.11

Personal narratives, vindication, secret service
Personal narratives when relating to some special battle or event should be cited according to their subject

Personal narratives, northern side
Including volumes of G. A. K. papers and Loyal legion

Personal narratives, southern side

Army life

Southern army life, southern home life

Secret service, spies

Southern side

Illustrative material
See note under 973.39

Poetry

Drama

Fiction

Addresses

Sermons

Humor

Pictures

Music

Maps

Later 19th century 1865-1901

Period of reconstruction and civil service reform

Andrew Johnson

15 Apr. 1865—4 Mar. 1869

Born 29 Dec. 1828; died 31 July 1875
13th amendment abolishing slavery, adopted 18 Dec. 1865
See 326.8 and 348.730

Fenian invasion of Canada 31 May-2 June 1866. See 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 331.99
14th amendment guaranteeing citizenship, adopted 28 July 1868
See 347.732
973.82 Ulysses Simpson Grant 4 Mar. 1869—4 Mar. 1877
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 973.93
15th amendment guaranteeing suffrage, adopted 30 Mar. 1870 See 342.1 and 342.739
First provision for civil service reform 3 Mar. 1871. See 335.6
Geneva arbitration award 14 Sep. 1872. See 341.6; 973.721; 973.757
Northwestern or San Juan boundary decision, Emperor William I of Germany, arbitrator, 23 Oct. 1872
Credit Mobilier investigation Dec. 1872-Feb. 1873
Coinage act 12 Feb. 1873. See 333.47
Modoc war, California, Nov. 1872-June 1873
Financial panic 19-30 Sep. 1873. See 339
Virginian incident Oct.-Dec. 1873
Whisky ring 1872-75. See 316.73
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 23 Feb. 1878. See 333.47
Resumption of specie payment 1 Jan. 1879. See 332.5 and 376.73

84 James Abram Garfield 4 Mar. 1881—19 Sep. 1881
Born 14 Nov. 1831; died 19 Sep. 1881

85 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
Edmond act to suppress polygamy 22 Mar. 1882. See 398
Pendleton civil service reform act 11 Jan. 1883. See 335.6

85 Grover Cleveland 4 Mar. 1885—4 Mar. 1889
Born 8 Mar. 1837
Act regulating the presidential succession 19 Jan. 1886. See 314.93
Mexican war pension act 29 Jan. 1887. See 355.5
Act creating Inter-state commerce commission 4 Feb. 1887. See 335
Dependent pension bill vetoed 11 Feb. 1887. See 351.5
Centennial anniversary of Constitution, Philadelphia, Pa. 15-17 Sep. 1887
Act to establish the Dep't of labor 15 June 1888. See 331
Fisheries treaty, signed 15 Feb. 1888; rejected by senate 21 Aug. 1888. See 331.9 and 341.273
Act to make Dep't of agriculture an executive dep't 9 Feb. 1889
See 630.6 and 333.8
Benjamin Harrison

Born 26 Aug. 1833
Opening of Oklahoma 2 Apr. 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 978.5
Washington admitted, 42nd state, 11 Nov. 1889. See 979.7
International American conference 2 Oct. 1889-19 Apr. 1890
See 341.5
Idaho admitted, 43rd 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 337-47
McKinley tariff act 1 Oct. 1890. See 337.3
Controversy with Chile Oct. 1891-July 1892. See 319.1
Geary Chinese exclusion act 5 May 1892. See 315.191
Bering sea arbitration treaty 23 Aug. 1892
Hawaiian annexation treaty sent to senate 15 Feb. 1893; with
drawn 9 Mar. 1893. See 986.9
Grover Cleveland, second term

4 Mar. 1893—4 Mar. 1897

Decision of Bering sea court of arbitration 15 Aug. 1893
Voorhees silver act 1 Nov. 1893. See 333.247
Wilson tariff act 27 Aug. 1894. See 337.6
Income tax law decided unconstitutional by U. S. supreme court
8 Apr. 1895. See 353.84
U. S. commission on boundary between Venezuela and British
Guiana appointed 1 Jan. 1896. See 987
Utah admitted, 45th state, 4 Jan. 1896. See 987.2

William McKinley

4 Mar. 1897—

Born 29 Jan. 1843
Dingley tariff act 24 July 1897
Annexation of Hawaii 7 July 1898

War with Spain

War declared 21 Apr. 1898
Protocol signed 12 Aug., 1898
1899
Political history; causes, results
Spanish misrule in Cuba
Destruction of battleship Maine 15 Feb. 1898
Diplomatic history
Special campaigns and battles
Siege of Santiago 22 June-17 July 1898
Battle of El Caney 1 July 1898
General military history
May be subdivided like 973.73
Naval history
Battle of Manila 1 May 1898
Sinking of the Merrimac 3 June 1898
 Destruction of Cervera's squadron 3 July 1898
War meetings, celebrations, anniversaries
Prisons, hospitals, etc.
Personal narratives
Illustrative materials

Maine.

Aroostook.

Somerset, Piscataqua.

Penobscot.

Washington, Hancock.

Waldo, Knox, Lincoln.

Kennebec.

Franklin, Oxford.

Androscoggin, Sagadahoc.

Cumberland, York.
New Hampshire.
  Coos.
  .21
  White Mt.
  .22
  Grafton.
  .23
  Carroll. Belknap.
  .24
  Strafford.
  .25
  Rockingham.
  .26
  Merrimac. Sullivan.
  .27
  Hillsborough.
  .28
  Cheshire.
  .29
  Vermont.
  .31
  Orleans. Essex.
  .32
  Caledonia. Lamoille.
  .33
  Washington.
  .34
  Addison.
  .35
  Orange. Windsor.
  .36
  Rutland.
  .37
  Bennington.
  .38
  Windham.
  .39
  Massachusetts.
  Berkshire.
  .41
  .42
  Worcester.
  .43
  Middlesex.
  .44
  Essex.
  .45
  Suffolk. Boston.
  .46
  Norfolk.
  .47
  Plymouth. Bristol.
  .48
  .49
  Rhode Island.
  Providence.
  .51
  Providence city.
  .52
  Pawtucket.
  .53
  Kent.
  .54
  Bristol.
  .55
  Newport.
  .56
  Newport city.
  .57
  Block Island.
  .58
  Washington.
  .59
  Connecticut.
  Litchfield.
  .61
  Hartford.
  .62
  Hartford city.
  .63
  Tolland. Windham.
  .64
  New London.
  .65
  Middlesex.
  .66
  New Haven.
  .67
  New Haven city.
  .68
  Fairfield.
  .69
New York.

New York City.

Vicinity of New York City.

Southeast counties.

Middle east counties.

Northern counties.

North central counties.

South central counties.

West central counties.

Western counties.

Pennsylvania.

Southeast counties. Philadelphia and Chester group.

Eastern counties. Bucks group.

Northeast counties. Northumberland group.

Southeast central counties. Cumberland group.

Northeast central counties. East Lycoming group.

Northwest central counties. West Lycoming group.

Southwest central counties. Bedford group.

Southwest counties. Westmoreland group.

Northwest counties. Allegheny group.
New Jersey.

East Jersey.

Northern counties.
1, Bergen; 2, ; 3, Passaic; 4, Paterson; 5, 
6, Hudson; 7, Jersey City; 8, Hoboken.

Central counties.
1, Essex; 2, Newark; 3, Orange; 4, 
5, Union; 7, Elizabeth; 8, Rahway.

Southern counties.
1, Middlesex; 2, New Brunswick; 3, 
4, Somerset; 5, 
6, Monmouth; 7, 
8, Ocean.

West Jersey.

Central counties.
1, Burlington; 2, ; 3, 
4, Mercer; 6, Trenton; 7, Princeton.

Northern counties.
1, Hunterdon; 2, Raritan; 3, 
4, Morris; 5,
6, Sussex; 7, 
8, Warren.

Upper southern counties.
1, Gloucester; 2, ; 3, 
4, Atlantic; 5, 
6, 
7, Camden; 8, Camden city.

Lower southern counties.
1, Salem; 2, Salem city; 3, 
4, Cumberland; 5, Bridge town; 6, 
7, 
8, Cape May.

South-Eastern or South Atlantic.

Including general works on "the South."

Delaware

Area 2,050 sq. mI.
Population 184,403 in 1890
3 counties

Population

Newcastle 97,182
Wilmington 61,431
Kent 32,664
Sussex 38,647
Maryland

Area 13,310 sq. mi.
Population 1,044,900 in 1860
23 counties and Baltimore city

<table>
<thead>
<tr>
<th>Eastern Maryland</th>
<th>Population</th>
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<tbody>
<tr>
<td>.21</td>
<td></td>
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<tr>
<td>.211</td>
<td>Worcester</td>
</tr>
<tr>
<td>.212</td>
<td>Somerset</td>
</tr>
<tr>
<td>.215</td>
<td>Wicomico</td>
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<td>.217</td>
<td>Dorchester</td>
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<td>.218</td>
<td>Caroline</td>
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<td>.222</td>
<td>Talbot</td>
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<td>.234</td>
<td>Queen Anne</td>
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<td>.236</td>
<td>Kent</td>
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<tr>
<td>.238</td>
<td>Cecil</td>
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<table>
<thead>
<tr>
<th>Southern Maryland</th>
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<tbody>
<tr>
<td>.241 St. Mary</td>
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<tr>
<td>.244 Calvert</td>
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<tr>
<td>.247 Charles</td>
</tr>
<tr>
<td>.251 Prince George</td>
</tr>
<tr>
<td>.255 Anne Arundel</td>
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<tr>
<td>.256 Annapolis</td>
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| Baltimore (city)  | 434,439   |

<table>
<thead>
<tr>
<th>North Central</th>
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<tbody>
<tr>
<td>.273 Baltimore</td>
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<tr>
<td>.274 Harford</td>
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<td>.277 Carroll</td>
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<td>.281 Howard</td>
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<td>.283 Montgomery</td>
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<td>.287 Frederick</td>
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<td>.288 Frederick (city)</td>
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<th>Western</th>
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<tr>
<td>.291 Washington</td>
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<td>.292 Hagerstown</td>
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<td>.294 Allegany</td>
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<td>.295 Cumberland</td>
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<td>.297 Garrett</td>
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<thead>
<tr>
<th>District of Columbia</th>
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<tbody>
<tr>
<td>.3</td>
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</tbody>
</table>
West Virginia
19 June 1863 admitted as state
Area 24,780 sq mi
Population 938,800 in 1900
55 counties

OUTLINE

- 41 Ohio valley
- 411 Northern Panhandle
- 412 Hancock 6,593
- 413 Brooke 7,219
- 414 Ohio 48,024
- 415 Wheeling 33,878
- 416 Marshall 26,444
- 417
- 418 Wetzel 22,880
- 419 Tyler 18,252
- 42 Little Kanawha valley
- 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 Kanawha valley
- 431 Jackson 22,987
- 432
- 433 Mason 24,142
- 434
- 435 Putnam 17,330
- 436 Roane 10,852
- 437 Kanawha 54,696
- 438 Charleston 11,099
- 439 Boone 8,194
<table>
<thead>
<tr>
<th>Region</th>
<th>County</th>
<th>Population</th>
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<tbody>
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<td>Southwestern</td>
<td>Cabell</td>
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<td>Huntington</td>
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<td>Logan</td>
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<td>Wyoming</td>
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<td>Wayne</td>
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<td>Mingo</td>
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<td>Central</td>
<td>Monongahela</td>
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South Central or Gulf

1 Alabama
2 Mississippi
3 Louisiana
4 Texas
5
6 Indian Territory. Oklahoma
7 Arkansas
8 Tennessee
9 Kentucky

North Central or Lake

1 Ohio
   18 Feb. 1 March 1803. admitted as state. Area 40,760 sq mi
   Population 4,157,545 in 1900 88 counties

11 Northwest counties

111 Williams 24,953
5 Fulton 22,803
112 Lucas 153,559
113 Toledo 131,822
114 Defiance 26,317
115 Henry 27,252
116 Wood 51,555
117 Paulding 27,328
118 Putnam 32,525
119 Hancock 41,993
1 Findlay 17,113

12 Central north counties

121 Ottawa 22,213
4 Sandusky 34,311
122 Erie 37,050
1 Sandusky (city) 19,664
123 Lorain 54,857
1 Lorain (city) 16,028
124 Seneca 41,103
1 Tiffin 10,989
125 Huron 32,330
126 Wyandot 21,125
127 Crawford 33,935
128 Richland 44,289
1 Mansfield 17,640
129 Ashland 21,184
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Ohio

Central east counties

161 Wayne 37 870
162 Stark 94 747
1 Canton 30 667
3 Massillon 11 944
163 Columbiana 68 590
1 East Liverpool 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 Steubenville 14 349

Southwest counties

171 Preble 23 713
172 Montgomery 130 146
173 Dayton 85 333
174 Greene 51 613
175 Butler 56 870
1 Hamilton (city) 23 914
176 Warren 25 584
5 Clinton 24 202
177 Hamilton 409 479
178 Cincinnati 325 902
179 Clermont 31 610
6 Brown 28 237

Central south counties

181 Fayette 21 725
5 Pickaway 27 016
182 Ross 40 940
1 Chillicothe 12 976
183 Hocking 24 398
7 Vinton 15 330
184 Highland 30 982
7 Pike 18 172
185 Jackson 34 348
186 Adams 26 328
187 Scioto 40 981
1 Portsmouth 17 870
188 Lawrence 39 534
1 Ironia 11 868
189 Gallia 27 918
Ohio

Southeast counties

77.19

Muskingum 53 185

Zanesville 23 538

1

Guernsey 34 425

Belmont 60 875

Morgan 17 905

Noble 19 466

Monroe 27 031

Athens 38 730

1

Marietta 13 348

Washington 48 245

Meigs 28 020

Indiana

Indiana territory with present boundaries established

Indiana admitted

Area 36,352 sq. mi.

Population 5,198,404 in 1890

29 counties

Southeast counties

21

Dearborn 23 364

Ohio 4 955

Switzerland 12 514

Jefferson 24 507

Ripley 19 350

Franklin 18 366

Decatur 19 477

Jennings 14 668

Scott 7 833

Clark 30 359

Jeffersonville 10 666

Floyd 29 458

New Albany 21 059

Central south counties

22

Harrison 20 786

Washington 18 619

Jackson 24 139

Bartholomew 23 867

Brown 10 300

Monroe 17 673

Lawrence 19 792

Orange 14 678

Crawford 13 941

Perry 18 240
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### Indiana

#### Northeast counties

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*Fort Wayne: 35,398*

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#### Central north counties

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*Logansport: 13,338*

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*South Bend: 21,519*

#### Northwest counties

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*Michigan City: 10,776*

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*Lafayette: 16,243*

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Illinois

Illinois territory formed 1809
Illinois admitted to Union Dec. 1818
Area 56,650 sq. mi.
Population 3,865,351 in 1890
109 counties

977.3

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</tr>
<tr>
<td>Champaign</td>
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<tr>
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<td>Crawford</td>
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</tr>
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<td>Wabash</td>
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<td>Shelby</td>
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### Illinois

#### Southwest counties

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<tr>
<td>Montgomery</td>
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<tr>
<td>Macoupin</td>
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<tr>
<td>Greene</td>
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<tr>
<td>Calhoun</td>
<td>7,652</td>
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<tr>
<td>Jersey</td>
<td>14,810</td>
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<tr>
<td>Madison</td>
<td>51,535</td>
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**Alton**

<table>
<thead>
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<td>Washington</td>
<td>19,262</td>
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<tr>
<td>St Clair</td>
<td>66,571</td>
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**Belleville**

<table>
<thead>
<tr>
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<tbody>
<tr>
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#### Southern counties

<table>
<thead>
<tr>
<th>County</th>
<th>Population</th>
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<tbody>
<tr>
<td>Monroe</td>
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<td>Randolph</td>
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<td>Perry</td>
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<tr>
<td>Franklin</td>
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<td>White</td>
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<td>Gallatin</td>
<td>14,925</td>
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<tr>
<td>Hardin</td>
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**Cairo**

<table>
<thead>
<tr>
<th>City</th>
<th>Population</th>
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</thead>
<tbody>
<tr>
<td>Pope</td>
<td>14,016</td>
</tr>
<tr>
<td>Saline</td>
<td>19,342</td>
</tr>
<tr>
<td>Williamson</td>
<td>22,226</td>
</tr>
<tr>
<td>Jackson</td>
<td>27,809</td>
</tr>
<tr>
<td>Union</td>
<td>21,549</td>
</tr>
<tr>
<td>Johnson</td>
<td>15,013</td>
</tr>
<tr>
<td>Massac</td>
<td>11,313</td>
</tr>
<tr>
<td>Pulaski</td>
<td>11,355</td>
</tr>
<tr>
<td>Alexander</td>
<td>16,563</td>
</tr>
</tbody>
</table>

**Cairo**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Pope</td>
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</tr>
<tr>
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</tr>
<tr>
<td>Pulaski</td>
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<td>27,809</td>
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</tr>
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<tr>
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<td>16,563</td>
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</tbody>
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**Cairo**

<table>
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<tbody>
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<tr>
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<td>Jackson</td>
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<tr>
<td>Union</td>
<td>21,549</td>
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<tr>
<td>Johnson</td>
<td>15,013</td>
</tr>
<tr>
<td>Massac</td>
<td>11,313</td>
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<td>Pulaski</td>
<td>11,355</td>
</tr>
<tr>
<td>Alexander</td>
<td>16,563</td>
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</table>
## Michigan

1805 Organized as separate territory
1837 Admitted
Area 89,624 sq. mi
Population 5,093,889 in 1890

### Lower peninsula

#### Southwest counties

<table>
<thead>
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<th>Population</th>
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<tbody>
<tr>
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<td>Cass</td>
<td>20,953</td>
</tr>
<tr>
<td>Van Buren</td>
<td>30,541</td>
</tr>
<tr>
<td>Allegan</td>
<td>38,962</td>
</tr>
<tr>
<td>Ottawa</td>
<td>35,258</td>
</tr>
<tr>
<td>Barry</td>
<td>23,703</td>
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<tr>
<td>Kalamazoo</td>
<td>39,273</td>
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<tr>
<td>Kalamazoo (city)</td>
<td>17,853</td>
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<tr>
<td>St Joseph</td>
<td>25,356</td>
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#### Central south counties

<table>
<thead>
<tr>
<th>County</th>
<th>Population</th>
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</thead>
<tbody>
<tr>
<td>Branch</td>
<td>26,791</td>
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<tr>
<td>Calhoun</td>
<td>43,501</td>
</tr>
<tr>
<td>Eaton</td>
<td>32,094</td>
</tr>
<tr>
<td>Clinton</td>
<td>26,500</td>
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<tr>
<td>Shiawassee</td>
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<tr>
<td>Ingham</td>
<td>37,666</td>
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<td>20,798</td>
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#### Southeast counties

<table>
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<td>Monroe</td>
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<tr>
<td>Wayne</td>
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<tr>
<td>Detroit</td>
<td>205,876</td>
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<tr>
<td>Washtenaw</td>
<td>42,210</td>
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<td>Livingston</td>
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<td>Genesee</td>
<td>39,430</td>
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<tr>
<td>Oakland</td>
<td>41,245</td>
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<tr>
<td>Macomb</td>
<td>31,813</td>
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#### Southeast central counties

<table>
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<td>St Clair</td>
<td>52,105</td>
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<tr>
<td>Bay</td>
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<td>Saginaw</td>
<td>46,322</td>
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<tr>
<td>Saginaw (city)</td>
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<tr>
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<td>10,657</td>
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<td>Gratiot</td>
<td>28,668</td>
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### Michigan

#### Southwest central counties

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<tr>
<td>Isabella</td>
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<td>Mecosta</td>
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<tr>
<td>Montcalm</td>
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<tr>
<td>Ionia</td>
<td>33,801</td>
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<tr>
<td>Kent</td>
<td>109,922</td>
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**Grand Rapids**

<table>
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**Muskegon**

| Muskegon(city) | 22,702 |

<table>
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<th>Population</th>
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<tbody>
<tr>
<td>Newaygo</td>
<td>20,476</td>
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<tr>
<td>Oceana</td>
<td>15,698</td>
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#### Northwest central counties

<table>
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<tr>
<th>County</th>
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<tbody>
<tr>
<td>Mason</td>
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<tr>
<td>Manistee</td>
<td>24,230</td>
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**Manistee (city)**

<table>
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<table>
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<tbody>
<tr>
<td>Benzie</td>
<td>5,237</td>
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<tr>
<td>Leelanaw</td>
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<tr>
<td>Grand Traverse</td>
<td>13,355</td>
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<tr>
<td>Kalkaska</td>
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<tr>
<td>Missaukee</td>
<td>5,048</td>
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<td>Wexford</td>
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<td>Lake</td>
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<td>Osceola</td>
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#### Northeast central counties

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<td>Iosco</td>
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<td>Ogemaw</td>
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<td>Roscommon</td>
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<td>Crawford</td>
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<tr>
<td>Oscoda</td>
<td>1,904</td>
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<tr>
<td>Alcona</td>
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#### Northern counties

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<td>Antrim</td>
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<tr>
<td>Charlevoix</td>
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<tr>
<td>Cheboygan</td>
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<td>Emmet</td>
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<td>Manitou</td>
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### Michigan

<table>
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<tbody>
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<td>Mackinac</td>
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<tr>
<td>Luce</td>
<td>2,455</td>
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<tr>
<td>Alger</td>
<td>1,238</td>
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<tr>
<td>Schoolcraft</td>
<td>5,818</td>
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<tr>
<td>Delta</td>
<td>15,330</td>
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<tr>
<td>Menominee</td>
<td>33,639</td>
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</table>

**Menominee (city)**: 10,630

**Dickinson**: Formed after 1860

<table>
<thead>
<tr>
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<th>Population</th>
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<tbody>
<tr>
<td>Marquette</td>
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<td>Ishpeming</td>
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<tr>
<td>Baraga</td>
<td>3,036</td>
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<tr>
<td>Iron</td>
<td>4,432</td>
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<tr>
<td>Gogebic</td>
<td>13,166</td>
</tr>
<tr>
<td>Ontonagon</td>
<td>3,756</td>
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<tr>
<td>Houghton</td>
<td>35,389</td>
</tr>
<tr>
<td>Keweenaw</td>
<td>2,894</td>
</tr>
<tr>
<td>Isle Royale</td>
<td>135</td>
</tr>
</tbody>
</table>

### Wisconsin

- Organized as a territory: 1836
- Admitted as a state: May 29, 1848
- Area: 56,040 sq mi
- Population: 3,069,043 in 1900

#### Northwest counties

<table>
<thead>
<tr>
<th>County</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Douglas</td>
<td>36,335</td>
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<tr>
<td>Superior</td>
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<tr>
<td>Bayfield</td>
<td>14,392</td>
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<tr>
<td>Burnett</td>
<td>7,478</td>
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<tr>
<td>Washburn</td>
<td>5,521</td>
</tr>
<tr>
<td>Sawyer</td>
<td>3,593</td>
</tr>
<tr>
<td>Polk</td>
<td>17,801</td>
</tr>
<tr>
<td>Barron</td>
<td>23,677</td>
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<tr>
<td>Gates</td>
<td></td>
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</tbody>
</table>

#### Central north counties

<table>
<thead>
<tr>
<th>County</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashland</td>
<td>20,176</td>
</tr>
<tr>
<td>Ashland (city)</td>
<td>13,074</td>
</tr>
<tr>
<td>Iron</td>
<td>6,616</td>
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<tr>
<td>Vilas</td>
<td>4,929</td>
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<tr>
<td>Price</td>
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**Wisconsin**

### Northeast counties

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### Central west counties

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### Central counties

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### Central east counties

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### Southwest counties

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**Wisconsin**

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**Southeast counties**

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**Minnesota**

**Iowa**

13 June 1838 organized as a territory
28 Dec. 1846 Admitted as state
Area 56,325 sq mi
Population 2,231,853 in 1900
99 counties

**Northwest counties**

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**Central north counties**

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# Missouri

- **7 Dec. 1812 organized as a territory**
- **Area**: 69,415 sq mi
- **10 Aug. 1821 admitted as a state**
- **Population**: 3,293,335 in 1910

### 977.8

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### 81 Northwest counties

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### 82 Central north counties

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<td>12</td>
<td>Randolph</td>
<td>26,182</td>
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### 83 Northeast counties

<table>
<thead>
<tr>
<th>No.</th>
<th>County</th>
<th>Population</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Scotland</td>
<td>11,869</td>
</tr>
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<td>Knox</td>
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<tr>
<td>3</td>
<td>Shelby</td>
<td>14,864</td>
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<td>4</td>
<td>Monroe</td>
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<tr>
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<td>Audrain</td>
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<tr>
<td>6</td>
<td>Callaway</td>
<td>24,400</td>
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<td>7</td>
<td>Clark</td>
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<td>Lewis</td>
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<td>9</td>
<td>Marion</td>
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### 84 South counties

<table>
<thead>
<tr>
<th>No.</th>
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<th>Population</th>
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<tbody>
<tr>
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<td>Hannibal</td>
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<td>2</td>
<td>Ralls</td>
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<td>3</td>
<td>Pike</td>
<td>22,550</td>
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<tr>
<td>4</td>
<td>Lincoln</td>
<td>17,033</td>
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<td>5</td>
<td>Montgomery</td>
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<td>Warren</td>
<td>9,123</td>
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<td>7</td>
<td>St. Charles</td>
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Missouri

<table>
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<td>.843</td>
<td>Bates</td>
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<td>Vernon</td>
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<td>.845</td>
<td>Lafayette</td>
<td>39 154</td>
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<td>5</td>
<td>Johnson</td>
<td>26 397</td>
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<tr>
<td>.846</td>
<td>Henry</td>
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<tr>
<td>6</td>
<td>St Clair</td>
<td>16 412</td>
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<tr>
<td>.847</td>
<td>Saline</td>
<td>29 448</td>
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<td>.852</td>
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<td>Morgan</td>
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<td>Camden</td>
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<td>Cole</td>
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<td>Miller</td>
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<td>Crawford</td>
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<td>St Louis</td>
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<tr>
<td>6</td>
<td>Pemiscot</td>
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</tr>
</tbody>
</table>
Western or Mountain.

Including general works on "the West."

. 1 Kansas.
. 2 Nebraska.
. 3 South Dakota, including works on Dakota as a whole.
. 4 North Dakota.
. 5
. 6 Montana.
. 7 Wyoming.
. 8 Colorado.
. 9 New Mexico.

Pacific.

. 1 Arizona.
. 2 Utah.
. 3 Nevada.
. 4 California.
. 5 Oregon.
. 6 Idaho.
. 7 Washington.
. 8 Alaska.
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            | L. 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 geographic 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. ordinance |
| antiqu. antiquities | fisc. or fiction | org. organ -ie |
| arch. archeology | fict. | orig. origin -al |
| association | gard. gardening | phil. philosopher -y |
| astr. astronomy | gen. general | philol. philology |
| biblio. bibliographic | geod. geodesy | phot. photographic -y |
| biog. biography | geol. geology | phys. physical |
| bldg. blding | geom. geometry | physiol. physiologic -y |
| bus. business | gov. or government | poet. poetry |
| ch. church | gov't | pol. or political or |
| chem. chemical | histol. histology | polit. politics |
| chemistry | hist. | prac. practical |
| chr. christian | historic -y | pres. presidency |
| civ. civil | hum. | president |
| county | hyg. | probabil. probabilities |
| cont. contagious | instr. | prot. |
| cost. costume | lang. | psych. psychological -y |
| crim. criminal | lib. | pub. public |
| Dan. Danish | lig. | reg. region |
| dec. decoration | lit. | relig. religion, -ous |
| descr. description | loc. | rit. ritual |
| diff. different | mach. machine -ry | sat. satire |
| dis. different | manufact. manufactures | sci. science, -tife |
| diseases | mech. | serm. sermons |
| discov. discovery | ment. | soc. social, society |
| doc. doctrin -al | meth. | stat. statutes |
| dom. domestic | mfg. manufacturing | subj. subject |
| dram. drama | mil. | tech. technology |
| dwell. dwelling | min. | theor. theoretic -y |
| eccles. ecclesiastic | misc. | therap. therapeutic |
| ecclesiology | mon. | wks | works |
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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Zygomycetes fungi                  589.28
Zygophyleae botany                  583.21
Zygosporeae algae                   589.6
Zygophyllum                         589.27
Zyphoid bone                        611.713

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.
INDEX TABLES.

Table 1.—Geographical Divisions.

The following subjects may all be divided geographically by adding the geographical numbers: 1. e. g. Europe; 2. Asia; 3. Africa; 4. North America; 5. South America; 6. Oceanica. These can be further subdivided as minutely as wished, like the history, 940-999, which see for full table: e. g. 1 Asia. England; 22. 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 920-999, and these figures are simply affixed to the number given in the table below: e. g. 1 Atlases are numbered in the table below 924; in the historical tables France is numbered 944; omitting initial 9 and affixing the remaining figures, 44, to 924 gives 924.44. Atlases of France; New South Wales is 9044; omit initial 9 and affix the 904 to 924 and the result is 924.9044. Atlases of New South Wales. In the table below, Miles are 332; 993 in the historical tables England is 943; adding these together (omitting the 9) gives 332.9943. Mints in England. Colleges are 378; N. Y. State, 957-971 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.

| 373. | Academies, private. |
| 379. | public. |
| 384. | Administration (except U. S.). |
| 923.5 | biographical. |
| 923.5 | Administrators' lives. |
| 925.3 | " " " biographical. |
| 911. | Ancient geography. |
| 283. | Anglican church. |
| 922.3 | " " biographical. |
| 591.9 | Animals, geographical distribution. |
| 328. | Annals, legislative. |
| 513. | Antiquities, archeology. |
| 922.3 | Archbishops' lives, Anglican. |
| 922.2 | " Roman catholic. |
| 720.9 | Architecture, history of. |
| 923.5 | Army biography. |
| 720.9 | Art, history of. |
| 516.9 | Asylums. |
| 027.2 | Athenaeum libraries. |
| 912. | Atlases. |
| 923.3 | Bankers' lives. |
| 286.1 | Baptist, Calvinistic. |
| 286.2 | " Free will. |
| 286.3 | " Seventh day. |
| 922.6 | " " lives. |
| 016.9 | Bibliography of history. |
| 015. | " special countries. |
| 920.0 | Biography of countries, collective; also religious biography 922.3 to 922.5, and biography of sociology 923.1 to 923.8. |
| 922.3 | Bishops' lives, Anglican and P. E. |
| 922.2 | " Roman catholic. |
| 655.4 | Bookselling, history of. |
| 581.9 | Botany, geographical. |
| 284.2 | Calvinist church. |
| 922.4 | " " lives. |
| 923.3 | Capitalists' lives. |
| 922.2 | Cardinals' " |
| 282. | Catholic church. |
| 922.2 | " " " " biography. |
| 284.8 | " Old church. |
| 361.9 | Charitable associations. |
| 283. | Church, Episcopal. |
| 922.3 | " " " " biographical. |
| 27 | " " " history. |
| 027.3 | Circulating libraries. |
| 027.4 | City libraries, public. |
| 923.5 | Civil service biography. |
| 027.2 | Club libraries. |
| 367.9 | Clubs, social. |
| 332.49 | Coinage, history of. |
| 027.7 | College libraries. |
| 378. | Colleges. |
| 325. | Colonies. |
| 923.8 | Commerce, biography of. |
| 285.8 | Congregational church. |
| 922.5 | " " " biographical. |
| 342. | Constitutional law. |
| 923.4 | Continental Protestants' lives. |
| 655.6 | Copyright. |
| 342. | Criminal law. |
| 923.4 | Criminals' lives. |
| 614.12 | Deaths and death-rates. |
| 91 | Description, geographical. |
| 91 | Directories. |
| 591.9 | Distribution of animals, geog. |
| 549.9 | " " minerals. |
| 591.9 | " " plants. |
| 572.9 | " " races. |
| 284.1 | Dutch reformed church (except America). |
| 285.7 | Dutch reformed church (in America). |
| 922.4 | Dutch reformed church biography. |
| 27 | Ecclesiastical history. |
| 378. | Education, college. |
| 372.9 | " elementary. |
| 370.9 | " " history of. |
| 027.4 | Public libraries. |
| 379. | School system. |
| 645. | Publishers' lists. |
| 655.4 | Publishing, history of. |
| 289.6 | Quakers. |
| 922.8 | " lives. |
| 724.5 | Queen Anne architecture. |
| 923.1 | Queens' lives. |
| 572.9 | Races of men. |
| 923.8 | Railroad officials' lives. |
| 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. |
| 377. | Relations, foreign. |
| 724.1 | Religious history. |
| 724.1 | Renaissance architecture. |
| 282. | Roman Catholic church. |
| 922.2 | " " " biography. |
| 724.5 | 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. |
| 931.7 | " officers' biography. |
| 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. |
| 533.09 | 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. |
| 927.5 | " libraries. |
| 923.2 | Statesmen's lives. |
| 31 | Statistics. |
| 312 | " of population. |
| 027.3 | Subscription libraries. |
| 324. | Suffrage. |
| 027.8 | Sunday school libraries. |
| 289.4 | Swedenborgians. |
| 922.8 | Swedish church. |
| 284.7 | " " " biography. |
| 922.4 | " " " biography. |
| 724.7 | Swiss architecture. |
| 923.7 | Teachers' lives. |
| 607. | Technical schools. |
| 724.7 | Timber architecture. |
| 307.4 | Town libraries, public. |
| 91 | Travel, description. |
| 908 | " 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. |
| 922.4 | Voting. |
| 533.70 | Waldense biology. |
| 376.9 | Waters, mineral. |
| 591.9 | Woman's education. |
| 591.9 | Zoology, geographical. |
### Table 2.—Form Divisions.

The form distinctions are: 01, Philosophy; 02, Essays; 03, Dictionaries; 04, Periodicals; 05, Societies; 06, Study and Teaching; 07, Polygraphy, Collective Works; 08, History. The following is an alphabetical list of these divisions, and the figures prefixed should be added to the number of the subject to be subdivided; e.g., Disputations on Chemistry in general 390.45 Dictionaries of Mining 642.01.

<table>
<thead>
<tr>
<th>01</th>
<th>Manuals.</th>
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<tr>
<td>02</td>
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<td>Maxims.</td>
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<td>04</td>
<td>Methods.</td>
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<td>06</td>
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<td>07</td>
<td>Outlines.</td>
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<td>08</td>
<td>Papers.</td>
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<td>Reports of Societies.</td>
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<td>15</td>
<td>Reviews.</td>
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<td>27</td>
<td>Utility.</td>
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</tbody>
</table>

### Table 3.—Languages.

The table below includes all languages mentioned in the classification, except those in 491-495, not yet subdivided.

Any language in this table may be subdivided like 425, 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 subdivide the language is to prefix the language figures as given in this table to the philological numbers given in Table 4.

All these methods give the same result.

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<th>491 .58</th>
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Table 4.—Philological Divisions.

All the languages in Table 3 can be divided like 400, English, by adding the figures below: 401-402.

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<th>2 Derivation of words.</th>
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<td>7 Dialects.</td>
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<td>3 Dictionaries.</td>
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<td>25 Diminutives, derivation.</td>
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<td>17 Diplomatics.</td>
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<td>24 Accusative, etymology.</td>
<td>20 Early forms of language.</td>
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<td>33 Ellipse.</td>
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<td>33 Enallage.</td>
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<td>28 Adjectives, inflection.</td>
<td>83 Errors of speech.</td>
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<td>51 &quot; inflection.</td>
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<td>63 &quot; Feet, prosody.</td>
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<td>64 Figures of prosody.</td>
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<td>65 &quot; First lessons.</td>
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<td>66 &quot; Foot, prosody.</td>
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<td>7 &quot; &quot; &quot; Glossaries, dialects.</td>
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<td>39 Arrangement of words and clauses.</td>
<td>7 &quot; &quot; &quot; language.</td>
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<td>83 Grammatical errors.</td>
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<td>41 Aspirates.</td>
<td>65 &quot; Hexameters.</td>
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<td>42 &quot; syntax.</td>
<td>64 &quot; Hiatus.</td>
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Table 5.—Literatures.

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, E. Letters; 5, Satire and Humor; 6, Miscellany; may be used to sub-divide any of the language tables; and any division of English literature in the index referring to this table may be another literature, by replacing the initial figures 809 (standing English) by the figures of the in this table.

Thus Ballads, English literature in the index are 809.04 and in this table Spanish is Spanish ballads; 809.07 Russian and 809.009 is Russian ballads.

While this minute division is possible, it is not expedient in all cases: e.g. Icelandic is except in one or two of these divisions and a special arrangement similar to 809 Anglo-convenient.

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Biscoe time and Olin biografy 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 publishd in 1652 being E52; in 1597, 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 numberd C472.

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American books take their numbers from the last copyright date; English and other foren 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 publishd 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 tho that may be lacking in the library set; e. g. Popular science monthly, v. 10–20, is M3, 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, Senselig’s Numbers universalized, and Well’s Short course in higher algebra all publishd in 1889 call for O9. Supposing them to come into the library in the above order, Bradbury would be O9; Wells O9a; Senselig, O9b. In a closely elast library additions to final subdivisions are seldom more than one a year. In the exception 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 200s of the present century, and F9 one of the last decade of the 18th (1099 being the mark for 1799). 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:

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**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 shelve 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 last 920 or 923.1.
Table of Olin numbers

From *Library journal* 18:144

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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.
This book should be returned to the Library on or before the last date stamped below.
A fine of five cents a day is incurred by retaining it beyond the specified time.
Please return promptly.