

U.S. Geological Survey Library Classification System

By R. Scott Sasscer

U.S. Geological Survey Bulletin 2010

This revised and expanded classification system is a tool for classifying and retrieving geoscience library materials. The index promotes quick access to the classification tables.

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U.S. Geological Survey Library Classification System

by R. Scott Sasscer

Abstract

The U.S. Geological Survey Library classification system has been designed for earth science libraries. It is a tool for assigning call numbers to earth science and allied pure science materials in order to collect these materials into related subject groups on the library shelves and arrange them alphabetically by author and title. The classification can be used as a retrieval system to access materials through the subject and geographic numbers.

The classification scheme has been developed over the years since 1904 to meet the ever-changing needs of increased specialization and the development of new areas of research in the earth sciences. The system contains seven schedules:

- Subject schedule
- Geological survey schedule
- Earth science periodical schedule
- Government document periodical schedule
- General science periodical schedule
- Earth science map schedule
- Geographic schedule

Introduction provides detailed instructions on the construction of call numbers for works falling into the framework of the classification schedules.

The tables following the introduction can be quickly accessed through the use of the newly expanded subject index.

The purpose of this publication is to provide the earth science community with a classification and retrieval system for earth science materials, to offer sufficient explanation of its structure and use, and to enable library staff and clientele to classify or access research materials in a library collection.

Introduction

The newly revised classification system presented in this report is designed for use in the U.S. Geological Survey (USGS) Library and other earth science libraries.

Prior to the administration of Fred Boughton Weeks, 1903-1908, the library lacked a classification scheme. The Dewey Decimal system for geologic material was not sufficiently developed to accommodate the range of specialized material collected at the USGS Library, and The Library of Congress Classification System had not yet been published. The library staff and patrons were concerned about continued development of the collection without an acceptable classification scheme.

Mr. Weeks and bibliographer John M. Nickles of the library staff, with the assistance of three consultants from the New York Public Library, developed the USGS classification system designed specifically for an earth science library.

Seven schedules were created:

1. General subject collection
--consists of disciplines in the earth sciences, such as geology, petrology, mineralogy, paleontology, and biology. The pure sciences are included insofar as they augment the earth sciences, for example, physics, chemistry engineering, mathematics, and computer sciences. The schedule allows for integration of general works throughout.
2. Geological survey collection
--contains the monographs, periodicals, and monographic series issued by the geological surveys of the world. The notation for this schedule consists of numbers enclosed by parenthesis, (XXX).
3. Earth science periodical collection
--contains publications issued by earth science societies, associations, and earth science departments of universities. The notation for this schedule is identified by an uppercase G and a geographic number, G(XXX).
4. Government documents collection
--contains periodicals and monographic series issued by federal, state, provincial and local governments throughout the world. The notation for this schedule is identified by an uppercase P and a geographic number, P(XXX).
5. General science periodical collection
--contains science periodicals issued by societies, associations, and universities throughout the world. The notation for this collection is identified by an uppercase S and a geographic number, S(XXX).
6. Earth science map collection
--contains earth science maps issued by all the sources listed above. The notation of the map collection consists of an uppercase M followed by a geographic number and a subject number, M(XXX)X.
7. Geographic schedule
-consists of numbers enclosed in parentheses that can be combined with notation from the other schedules. The geographic number is highly visible throughout the classification system and thus immediately recognizable when scanning the system for a particular locale. For example, the number 203 represents the subject geology. When the geographic number for the United States, (200), is added to the number 203, i.e., 203(200), the resulting number represents a study on the geology of the United States. Using a similar methodology, studies on earthquakes in California would be 240(276), and mineral resources of Russia 403(570).

Subject Classification Schedule

The subject schedule has three main divisions: general works, earth sciences, and pure sciences. The collection consists chiefly of monographs but includes those periodicals that are narrow in scope, international in scope, or those issued by an international agency.

A. General Outline of the Subject Classification Schedule

General works:

001-095: Science, computer science, information systems, bibliographies, directories, dictionaries, and biographies.

Earth sciences:

101-190: Mineralogy and petrology

201-298: General geology, geologic hazards, tectonics, geodynamics, structural geology, geophysics, and geochemistry.

301-371: Historical and stratigraphic geology.

401-471: Mineral resources, mineral industries, mines and mining, and groups of minerals.

501-590: Geography, geomorphology, meteorology, landforms, oceanography, and environmental sciences.

601-699: Paleontology, paleoecology paleogeography.

Pure sciences:

701-795: Mathematics, astronomy, engineering, geodesy, surveying, cartography, and hydrology.

801-895: Physics and chemistry.

901-999: Biology, ecology, evolution, botany, agriculture, forestry, and zoology.

B. Constructing Call Numbers

Call numbers consist of a classification number, shelf list number, title mark and date.

(1) Classification number

The classification number consists of numbers 001-999 taken from the subject schedule (see Sections 1-10).

(2) Geographic notation

To add a region to a call number, consult the geographic schedule and choose the appropriate parenthetical number, (000)-(995), for the geographic locale represented in the study (see Section 11).

EXAMPLE

Title: China's energy and mineral industries / by J.P. Dorian, 1988.
Class no.: 403
Geographic no.: (610)
Complete class no.: 403(610)

(3) Shelf list number

The shelf list number contains information about the main entry of the piece being classified and also provides the work with its singular location on the shelves or in the library online system. The first part of the number consists of an upper case letter and usually a three digit number representing either an author or a title main entry. The number for an author main entry is unique for each author. The shelf list number for an author main entry is completed by lower case letter representing the title of a work and is called a title mark. The title mark allows the various works of an author to be arranged in alphabetical order after the unique three digit number.

The shelf list number for a title main entry is usually complete with an uppercase letter and a three digit number. If the shelf list number duplicates another number, add a title mark to make it unique. Titles beginning with numbers are treated as words when creating shelf list numbers. If the title consists of one word, construct the shelf list number from successive letters within that word.

To complete the call number for the example given above, a shelf list number is needed. As previously explained, the shelf list number has three elements.

The first element, an uppercase letter, is taken from the first letter of the first word of the main entry.

The second element, a three digit number, is taken from Library of Congress shelf listing tables (see below). The final element is the title mark taken from the title, or in case of a title main entry, from the next distinctive word in the title.

EXAMPLES

Call number with author main entry and no region:

Title: Multivariate geostatistics / H. Wackernagel, 1995.

Class no.: 208.2
Shelf list no.: W323
Title mark: m
Date: 1995
Call number: 208.2 W323m 1995

Call number with author main entry and a region:

Title: Expert witness guide for scientists and engineers / A.E. Surosky, 1993

Class no.: 760
Region: (200)
Shelf list no.: S976
Title mark: e
Date: 1993
Call number: 760(200) S976e 1993

Call number with title main entry and a region:

Title: China's energy and mineral industries / edited by J.P. Dorian, 1989.
Class no.: 403
Region: (610)

Shelf list no.: C442
Date: 1989
Call number: 403(610) C442 1989

(4) Dates in call numbers

Current classification policy has a date added to the end of monographic call numbers. In previous years a date was used only for successive editions. The date is usually taken from the imprint. Call numbers for congresses, however, use the date of the congress rather than the year of publication.

EXAMPLE

Monograph with date:

Title: Estimation of building vulnerability ... / G.C. Hart, 1988.

Class no.: 240.2
Shelf list no.: H377e
Date: 1988

Congress with date:

Title: Mineral resources of Russia : diamonds and gold : proceedings of the Second International Symposium "Mineral Resources of Russia" : held 1994, St. Petersburg (published 1995)

Class no.: 401(570)
Shelf list no.: I573m
Date: 1994

Multi volume sets that are published with different edition dates for various volumes are classified without a date.

Call numbers that would duplicate an earlier edition that was published in the same year are made unique by adding a, b, c, etc., to the date for successive versions.

(5) Size in call numbers

Due to restricted space at the Reston Library, publications are grouped according to size. The sizes are:

Octavo	up to 28 cm.
Oversize (quarto)	28.1 to 33 cm.
Folio	33.1 to 46 cm.
Superfolio	46.1 up

Prior to July 1999, oversize materials were designated by the addition of a lower case letter in front of the shelf list number: q (oversize), f (folio) or ff (superfolio). These designations are no longer used. Instead, shelf location is indicated using a size designation label above the call number.

EXAMPLES

Octavo call number:

203(200) H223g 1997

Oversize (quarto) call number:

OVERSIZE

303(620) J462h 1998

Folio call number:

FOLIO

403(276) C344g 1933

Superfolio call number:

SUPERFOLIO

508(600) A742 1984

(6) Translations

Translations are classified according to their origin:

1. Translations by publishing houses

Translations by publishing houses are given the call number of the original with a capital letter representing the language of the translation added to the end of the title mark.

If the bibliographic information of the original is unknown the call number is based on the bibliographic information of the translation. A capital letter is added to the end of the title mark for the language of the translation.

EXAMPLE

Original: Wirbellose Tiere der Vorzeit / U. Lehmann.

Call number: 610 L528w

Translation: Fossil invertebrates / U. Lehmann.

Call number: 610 L528wE

2. Translations by USGS translators or translation services

These translations are not classified or cataloged. Instead, they are kept in folders in the library's Translation file.

(7) Restricted material

All reports with the note: "for administrative use only," "for official use only," or similar notes are treated as restricted materials and designated by a "RESTRICTED" label above the call number.

Prior to July 1999, restricted materials were designated with a * (star) in front of the classification number.

EXAMPLE

Title: Mineral summaries
Note: "for official use only"

RESTRICTED

Call no.: 403(271) M562 1990

Geological Survey Schedule (XXX)

The geological survey schedule contains monographs, periodicals and monographic series issued by the geological surveys of the world. These works are classified according to the location of the geological survey issuing the publication and therefore the classification number consists of the geographic number for that region (see Section 11).

A. Constructing Call Numbers for Monographs

Call numbers for monographs in the geological survey schedule consist of a geographic number, a shelf list number, and a date.

EXAMPLE

(1) Author main entry

Title: Ground-water resources of the Surman area ... / by William Ogilbee.

Class no.: (200) for USGS
Shelf list no.: O344 for author
Title mark: g for title
Issuing date: 1989 imprint date

Call no. (200) O344g 1989

(2) Title main entry

Title: Characterization of organic contaminants and environmental samples associated with Mount St. Helens / by W.E. Pereira ... [et al.].

Class no.: (200) for USGS
Shelf list no.: C472 for title
Issuing date: 1980 for imprint
Call no. (200) C472 1980

B. Constructing Call Numbers for Periodicals and Monographic Series

Current practice uses the title main entry as the basis for the shelf list number. An exception to the current practice are serials issued by the U.S. Geological Survey, Water Resources Division.

EXAMPLES

(1) Series: Water-resources investigation reports.

(200) for USGS
WR for Water Resources Division
i Title mark

Call no. (200) WRi

(2) Series: Hawaii District activities.

(200) for USGS
WR3 for Water Resources Division
hd Title mark

Call no.: (200) WR3hd

Earth Science Periodical Schedule G(XXX)

This schedule includes periodicals and monographic series issued by geologic societies, associations, organizations, and geology departments of universities, and publishers' series on economic geology, geodynamics, geology, historical geology, mineralogy, paleontology, petrology, physical geology, and structural geology.

Periodicals and monographic series on paleontology and natural history issued by university paleontological departments and laboratories, local government departments of paleontology, or museums of natural history are classified in 602 followed by a geographic number (see Section 7).

Constructing Call Numbers

1. The classification number is composed of an uppercase "G" and a geographic number. The geographic number usually esents the place of publication. There are two exceptions:

(a) Publications that report research in one region exclusively, but are published elsewhere, are given the geographic number for the research area.

(b) Periodicals of national associations and societies are usually given the geographic number for the country in which they are located, rather than the local region in which they are issued.

EXAMPLE

American Association of Petroleum Geologists

Class no.: G(200) for United States

Not: G(244) for Tulsa, OK

2. Shelf list number and title mark

Shelf list numbers are based on the name of the issuing agency. The title mark is based on the series title.

EXAMPLE

Title: Annual meeting and field trip guidebook / National Association of Geology Teachers.

Class no.: G(200)

Shelf list no.: N376

Title mark: aft

Call number: G(200) N376aft

Publishers' series are the exception. Shelf list numbers are based on the title main entry.

Government Documents Schedule P(XXX)

This schedule contains periodicals and monographic series issued by federal, state, provincial, and local governments. In the past, monographs were also classed here. The current policy is to class monographic government documents in the subject schedule (see Sections 1-9).

EXCEPTIONS

(1) Monographic and serial publications of geological surveys are classified in the geological survey schedule (see Section 12.1).

(2) Publications of all mining and mineral resources bureaus are classified in the subject schedule under the classification number 402 (see Section 5).

Constructing Call Numbers

The classification number is composed of an uppercase "P" and a geographic number. The geographic number represents the country, state or province in which the issuing government agency is located.

The shelf list number is constructed from the name of the government agency issuing the work. Title marks are from the title of the publication.

EXAMPLE

Title: Report to the Governor and the General Assembly / by Georgia Nuclear Advisory Commission.

Class no.: P(233) for Georgia

Shelf list no.: N466 for Nuclear Advisory Commission

Title mark: r for report

Call number: P(233) N466r

General Science Periodicals Schedule S(XXX)

This schedule contains periodicals issued by universities, societies, associations, and publishers' series on the following topics: archaeology, astronomy, biology, chemistry, computer science,

earthquakes, engineering, geography, geomorphology, geophysics, geothermal resources, geysers, glaciology, hydrology, mathematics, metals, mineral industries, mineral resources, mines and mining, natural resources, oceanography, ore deposits, petroleum, physics, pollution, precious stones, sedimentation, seismology, and volcanoes.

Classification numbers are constructed with an uppercase "S" and a geographic number representing the place of publication. The same exceptions found in the earth science schedule also apply to this schedule.

Shelf list numbers consist of an uppercase letter representing the issuing body, a three digit number, and a title mark. Shelf list numbers for publishers' series are based on the title main entry.

EXAMPLE

Title: Ohio Journal of Science / by the Ohio Academy of Science.

Class no.: S(251)
Shelf list no.: O346
Title mark: o

Call number: S(251) O346o

Map and Non-Map Material Call Numbers

A. Constructing Monographic Map Call Numbers

(1) Classification numbers

Map classification numbers are composed of three elements: the capital letter "M," a geographic number, and a truncated subject number if needed (for an explanation of truncated subject numbers see 037, computer simulation, section 1).

(2) Shelf list numbers

The three digit number in the map shelf list is constructed from C.A. Cutter's author's tables (Bloombert and Evans, 1981).

Shelf list numbers for a monograph are constructed with two or three elements:

(a) Shelf list numbers with three elements

A three element shelf list number is composed of a capital letter representing a subregion, quadrangle, valley, basin, or area; a three digit number taken from the Cutter tables; and a work letter representing the main entry. Later editions of the same map will have a date on the third line of the call number.

EXAMPLE

M(950)49

M	for map
(950)	for Hawaii
49	for subject: underground water (490 abbreviated to 49)

Shelf list number:

P316s

P	for subregion: Pearl Harbor
316	from Cutter table
s	for author: Soroos

Call number: M(950)49 P316s

(b) Shelf list numbers with two elements

When the contents of a map represents an entire region, the shelf list number is composed of the imprint date and a work letter representing the main entry. If the item was published over several years only the initial publication year is used.

EXAMPLE

Title: Bathymetric map of Fiji (with shallow seismicity), by I.B. Everingham.

Classification number: M(960)24

M	for map
(1)	for Fiji Islands
24	for subject: seismology (240 abbreviated to 24)

Shelf list number:	1986e
1986	for imprint date
e	for author: Everingham, I. B.
Call number:	M(960)24 1986e

B. Map Sets Classification

Definition

Map sets: Multiple maps, issued simultaneously or over time, intended to form a single group covering a given geographic area.

Classification numbers for map sets consist of four elements: capital letter “M” for map, geographic number for the region, an abbreviated subject number, and lower case “s” for map set.

Map set shelf list numbers are constructed according to two alternatives:

(1a) Scale

If all the sheets of the set use one scale, use an abbreviated form of the scale as the shelf list number according to the following procedures:

Delete the initial “1” and the colon following it and the three zeros from the end of the scale. Enter the remaining number in the shelf list line.

EXAMPLE

Scale is 1:100, 000: delete the “1:” and the last “000”. Enter “100” in the shelf list line.

Title: Australia 1:100,000 geological series / Australia.

Classification number: M(800)2s

M for map
(800) for Australia
2 for subject: geology
s for set

Shelf list number: 100 for abbreviated scale

Call number: M(800)2s
100

Add a work letter to the shelf list number to resolve conflicts with identical call numbers. If the conflict is not resolved, add a title mark for title of the map set.

(1b) Region/Scale

When the region given on the map is a subregion of the geographic number found in the classification number, the abbreviated scale in the shelf list number is preceded by two letters, the first uppercase and the second lower case, representing the subregion.

EXAMPLE

Title: Geological map of Greenland, 1:500,000.

Classification number: M(980)2s
M for map
(980) for region
2 for subject: geology
s for set

Shelf list number: Gr500

Gr for subregion: Greenland
500 for abbreviated scale

Call number: M(980)2s Gr500

Resolve call number conflicts by adding work letters and title marks to the shelf list number as described above.

(2) Cutter numbers

Map sets without a constant scale among the various sheets are given shelf list numbers which include a three digit number from the Cutter tables:

EXAMPLE

Title: Weinbau-Standortkarte Rheingau 1:50,000 /Hessisches Landesamt für
Bodenforschung.

Classification number: M(530.4)518s

M for map
(530.4) for region: Württemberg
518 for subject: soil formation
s for set

Shelf list number: R342h

R for subregion Rheingau
342 from Cutter tables
h for title main entry

Call number: M(530.4)518s R342h

C. Classification of Map Indexes

In order to locate the indexes next to the maps, their call number is that of the map set/series except that the ending “s” is replaced by an “i”:

Set: M(276)58s
Index: M(276) 58i

When an index covers maps of several scales, the smallest scale only will appear in the shelf list numbers of the index:

Set: M(276)58s 100
Index: M(276)58i 100

D. Non-Map Materials Classification Numbers

Classification numbers for non-map materials (posters, tables, etc. that are stored in map cases) are constructed with three elements: uppercase letter “M”, a parenthetical expression (NMM) for non-map material, and a subject number.

EXAMPLE

Title: Fossil shark teeth / sponsored by the Department of Paleobiology.

Class no.: M(NMM)671

M for material in map case
(NMM) for non-map material
671 for subject: fossil sharks

Shelf list numbers:

Shelf list numbers consist of three elements: an initial uppercase letter, followed by a three digit number from the Cutter table, and a title mark if needed.

Shelf list number: F798

F for main entry
798 from Cutter table

Call number: M(NMM)(671)
 F798

Special Format Call Numbers

The U.S. Geological Survey Library has found it desirable to distinguish the call numbers of special formats from printed materials. This has been done by adding a special format uppercase term to the end of a standard call number. The following is a list of special formats and the appropriate call number symbols:

FORMAT	CALL NUMBER
Audiocassettes	AUDIOC
Audio CD-ROM	AUDIOCD
CD-ROM	CD-ROM
Computer cassettes	COMPC
Computer disks	DISK
Games	GAME
Globes	GLOBE
Internet documents	INTERNET
Kits	KIT
Microfiche	FICHE
Microfilm	MFILM
Videocassettes	VIDEOC
Video CD-ROM	CD-ROM

Regional Library Call Numbers

The USGS Library has branches in Denver, CO, Menlo Park, CA and Flagstaff, AZ. These libraries will sometimes have additional notations as part of the classification number.

Denver Library

Call numbers for publications preceded by an upper case "L" indicate that they are locked in a case.

Special collections use "FR" for field records and "PH" for photograph collection. These designations precede the call number.

Shelf List Tables

The U.S. Geological Survey Library uses the Library of Congress shelf list tables to construct shelf list numbers. The tables are designed in a simple format, which is basically self-explanatory. A few points may need clarification.

The USGS Reston Library generally uses three digit shelf list numbers. The regional libraries may use 4 digits.

The shelf list number begins with an upper case letter representing the main entry.

(1) Using the surname “Smith”, the shelf list number will begin with the letter “S”.

(2) Select the first number from table 1, 2, 3, or 4 depending on the uppercase letter.

Use table:

- 1 if the upper case letter is a vowel.
- 2 if the upper case letter is a “S”.
- 3 if the upper case letter is a “Q”.
- 4 if the upper case letter is a consonant.

Since the name begins with “S”, use table 2. The first number is established from the second letter of “Smith”, i.e., “m”; go to table 2, find “m”, and find 6 below it.

The shelf list number will begin:

S6

(2) Use table 5 to complete the shelf list number by establishing the final two numbers. These digits will be constructed from the 3rd and 4th letters in Smith:

3rd letter is i shelf list no. is 4

4th letter is t shelf list no. is 7 Completed shelf list number is: S647

Library of Congress Shelf List Tables

Table 1: initial letters are vowels:

b d l,m n p r s,t u-y
2 3 4 5 6 7 8 9

Table 2: initial letter is S:

a ch e h,i m-p t u
2 3 4 5 6 7-8 9

Table 3: initial letters are Qu begin with the 3rd letter:

a e i o r u y
3 4 5 6 7 8 9

For names beginning with Qa-Qt use 2-29

Table 4: initial letters are consonants:

a	e	i	o	r	u	y
3	4	5	6	7	8	9

Table 5: final numbers:

a-d	e-h	i-l	m	n-q	r-t	u-w	x-z
2	3	4	5	6	7	8	9

United States Shelf List Tables

Use the following shelf list table for classifying publications by United States Government agencies when classifying in the subject schedule and the main entry is the government agency. A-Z below represents the first letter of the first work of the agency name following “United States.”

A-B	use	U3
C	use	U31
D-F	use	U32
G-J	use	U33
K-M	use	U34
N-O	use	U35
P-R	use	U36
S-U	use	U37
V-Z	use	U38

For entries beginning with United Nations use: U22

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SECTION 1 -- GENERAL WORKS

(Add geographic numbers as needed)

- 001 Government publications not classified elsewhere**
- 002 Exposition publications not classified elsewhere**
- 005 Education: schools and colleges**
- 008 Photographs**
- 009 Miscellany**
(Sketches, clippings, old records)
- 010 Periodicals:** In general these are now classified in G(XXX), S(XXX), P(XXX) except for bibliographical works, those issued by international bodies or those which are international in scope or very narrow in subject area. These exceptions are classified by subject in 001-999.
- 020 Societies, universities, and observatories**
- 025 Museums**
- 030 Science**
(General works, including philosophy, history of science, and science and technology; for science education see 065.5)
 - 030.3 Science and society**
(Includes government role in science)
 - 030.5 Scientific labor force**
(Includes analyses of labor force, educational and research opportunities)
- 031 Scientific congresses.**
(For congresses on a specific topic, see specific subject numbers)
- 032 Scientific institutions**
(Publications about these institutions)
- 035 Scientific instruments and microscopy**
 - 035.1 Congresses on instrumentation**
- 035.4-**
- 039.8 Computer science**
 - 035.4 Congresses, meetings, and so forth**
 - 035.5 General works**
(Includes data processing and computer software)
 - 035.6 Encyclopedias**
 - 035.7 History**
 - 035.8 Symbols and abbreviations**
 - 035.9 Miscellany, essays, and collections**
- 036 Computers**
(General works)
 - 036.1 Analog**
 - 036.2 Digital**
 - 036.23 Microcomputers (PC's)**
 - 036.24 Minicomputers**
 - 036.25 Mainframes**
 - 036.3 Training manuals, techniques, user guides**
 - 036.31 Desktop publishing**
 - 036.32 Electronic publishing**
 - 036.4 Computer problems, exercises, and so forth**
 - 036.5 Digital image systems and processing**
 - 036.6 Computer graphics**
 - 036.7 Computer security**

- 036.8 Computer law and legislation**
- 036.9 Computer language and programming**
- 037 Computer simulation, mathematical models, and special subjects.**

For works on a special subject add a subject number to "037" according to the following procedures. Precede each subject number with a period. Numbers ending in "03" are abbreviated to one digit, for example, 203, 403, 503, and so forth become "2", "4", and "5", that is , 037.2, 037.4, and 037.5. Numbers ending in zero are abbreviated as two digits: 530 becomes "53" or 037.53. Petrology , 150.3, is abbreviated as "15" or 037.15; all other numbers constructed with decimal points retain the decimal; for example, petroleum engineering, 467.4, becomes 037.467.4. Use the following as examples for constructing additional numbers:

- 037.1 Mineralogy**
- 037.15 Petrology**
- 037.2 Geology**
- 037.4 Mineral resources**
- 037.5 Geomorphology and geography**
- 037.58 Natural resources**
- 037.78 Hydrology**
- 037.81 Physics**
- 037.85 Chemistry**
- 038 Computer engineering, computer hardware, and internet**
- 038.1 Congresses, meetings, and so forth**
- 038.2 Microprocessors**
- 038.3 Input-output equipment**
- 038.4 Computer communications networks**
- 038.5 Special computer components**
- 038.6 Optical disk systems, CD-ROM, and so forth**
- 039 System analysis and design**
(Computer applications)
- 039.1 Congresses**
- 039.2 Database analysis and design**
- 039.3 Database management**
- 039.4 Database processing**
- 039.5 Database modeling**
(CODASYL, DBTG, DDL, DML)
- 039.6 Database systems**
(ADABAS, SYSTEM 2000, IDMS, IMS, MAGNUM)
- 039.7 Artificial intelligence, expert systems**
- 039.8 Pattern recognition**
- 040 Information storage and retrieval systems, information services, science information and processing systems, and punched card systems**

For works on a special topic add a subject number to 040 according to the procedures set down in the class number 037. Use the following numbers as examples for constructing additional numbers:

- 040.1 Mineralogy**
- 040.15 Petrology**
- 040.2 Geology**

- 040.4 Mineral resources
- 040.5 Geomorphology and geography
- 040.58 Natural resources
- 040.78 Hydrology
- 040.81 Physics
- 040.85 Chemistry
- 040.919.53 Marine ecology
- 041 National bibliography
(Add a geographic number to designate the appropriate country)

EXAMPLE:

- 041(540) Bibliography of French publications
- 042 Subject bibliography

For bibliographies on specific topics, add subject numbers according to the procedures given at the class number 037.

Use the following numbers as examples for constructing additional numbers:

- 042.010 Periodicals
- 042.030 Science
- 042.2 Geology
- 042.203.3 Engineering geology
- 042.295 Geophysics
- 042.5 Geomorphology and geography
- 042.53 Oceanography
- 042.759 Cartography
- 042.85 Chemistry
- 042.919 Ecology
- 043 Bibliographies of the works of individual authors
 - 043.1 United States
 - 043.2 British Commonwealth
 - 043.3 German
 - 043.33 Austrian
 - 043.35 Swiss
 - 043.37 Dutch
 - 043.4 French
 - 043.5 Italian
 - 043.59 Romanian
 - 043.6 Spanish
 - 043.69 Portuguese
 - 043.7 Russian and other Slavic nationalities
 - 043.8 Scandinavian
 - 043.81 Norwegian
 - 043.82 Danish
 - 043.83 Swedish
 - 043.9 Other
- 044 Indexes to serials and lists of publications of societies
(Indexes of particular serials are generally classed with the series that they index)
- 045 Library science
 - 045.1 Periodicals
 - 045.2 Society publications

- 045.3 **Library schools**
- 045.4 **Acquisition of books**
- 045.5 **Classification and shelving**
- 045.6 **Cataloging**
(Includes lists of descriptors)
- 045.7 **Binding**
(Includes restoration and conservation)
- 045.8 **Map librarianship**
- 045.9 **Reference librarianship**
- 046 **Libraries**
 - 046.1 **Reports**
 - 046.3 **Catalogs**
 - 046.5 **Other publications**
 - 046.7 **Library automation**
 - 046.8 **Electronic libraries**

- 047 **Archives and archive collections**
- 048 **Catalog of research grants, projects, and so forth**
- 050 **General dictionaries**

Shelf list numbers will include the following elements:

1. A capital letter with a one digit number representing the language.
(see list of language codes given below)
2. A capital letter with a two digit number for the main entry and constructed from L.C. shelf list tables given in the introduction.

EXAMPLE:

Citation from title page:

Random House dictionary of the English language

Editor: Jess Stein

Call number:

050

E5R36

3. Complete the shelf list number with a title mark when the main entry is under the author. Use the following language codes in shelf list numbers when classifying dictionaries. Use with classification numbers 050, 051, and 051.1. Follow the instructions for shelf list numbers given in 050.

- A8 Armenian**
- Af8 Africaans**
- A12 Aleut**
- A113 Albanian**
- Ar12 Arabic**
- B4 Belarussian (White Russian)**
- B8 Bulgarian**
- C28 Catalan**
- C35 Chamorro**
- C4 Chinese**
- C42 Chinook**
- C88 Croatian**
- C99 Czech**
- D2 Danish**
- D9 Dutch**

E5	English
Es8	Estonian
F4	Finnish
F8	French
G3	German
G8	Greek
H3	Hawaiian
H4	Hebrew
H5	Hindi
H8	Hungarian
Ic2	Icelandic
In2	Indonesian
In3	American Indian
Ir4	Irish
It2	Italian
J2	Japanese
K8	Korean
K87	Kusaie
L3	Latin
L4	Latvian
L7	Lithuanian
M2	Malay
M3	Marshall language
M7	Mongolian
M9	Muskokee
N8	Norwegian
P3	Palasuan
P36	Papago
P7	Polish
P75	Ponape
P8	Portuguese
R8	Romanian
R9	Russian
Se6	Serbian
Si11	Thai (Siamese)
S14	Slovak
S15	Slovenian
Sp6	Spanish
Sw3	Swahili
Sw4	Swedish
T6	Tohono O'Odham
T84	Turkish
Uk7	Ukrainian
V6	Vietnamese
Y3	Yapese

051 Bilingual and polyglot dictionaries

(Construct shelf list numbers as instructed in 050 above)

051.1 Technical dictionaries

For technical dictionaries on a specific subject, add a subject number to "051.1" according to the procedures given at class number 037. To add a language to the shelf list number,

use the list of language codes and instructions given at 050 above.

Use the following numbers as examples for constructing additional numbers:

- 051.1 Technical dictionaries**
- 051.1.2 Geology**
- 051.203.2 Engineering geology**
- 051.1.467.4 Petroleum engineering**
- 051.1.536 Marine sediments**
- 051.2 Dictionaries of abbreviations and acronyms**
- 052 General encyclopedias**
- 053 Grammars, language manuals, rhetoric**
(Construct shelf list numbers by language as in 050)
- 053.2 Technical writing, style manuals, and so forth**
- 054 Logic**
- 055 Statistical yearbooks, almanacs**
- 056 Membership directories**
For membership directories on a specific subject, add a subject number to "056" according to the procedures given at classification number 037.
- 057 Directories of organizations and institutions**
For organizational directories on a special topic, add a subject number to "057" according to the procedures set up at classification number 037.
- 059 Law**
(Includes copyright law)
- 060 Nomenclature and classification**
(Not used after 1971; see also nomenclature and classification under specific topics: mineralogy: 106; petrology: 150.6; geology: 206; historical geology: 306; mineral industries: 406; paleontology: 606; physics: 806; chemistry: 850.6; biology: 906)
- 065 Sociology and economics**
 - 065.1 Business administration and management**
 - 065.11 Accounting**
 - 065.13 Organizational management**
(Includes mgt. styles, tools, TQM, teamwork, empowerment, etc.)
 - 065.15 Leadership**
(Includes organizational mission)
 - 065.16 Communication**
(Includes presentations, resumes, meetings, proposal writing, exhibits, etc.)
 - 065.17 Women in management**
 - 065.19 Personnel management**
(Includes recruitment, performance evaluations, EEO , diversity, sexual harassment, etc.)
 - 065.2 Labor force and employment**
 - 065.21 Working conditions**
(Including wages, flexible hours, environmental conditions, etc.)
 - 065.23 Career development**
(Includes professional/vocational guidance, mentoring, career ladders, etc.)
 - 065.25 Women in the workplace**
(Includes child care)
 - 065.27 Labor relations**
(Includes labor disputes)
- 065.3 City and regional planning**
- 065.4 Health**

SECTION 2 -- MINERALOGY AND PETROLOGY

(Add geographic numbers for regions as needed)

Mineralogy

- 101 **Congresses** (1972+) (see 401 for mining congresses)
- 103 **Textbooks and general treatises**
- 104 **Elementary and older textbooks; popular mineralogy, rockhounding**
- 105 **Catalogs and tables**
- 106 **Nomenclature and classification**
- 107 **History**
- 108 **Technique**
- 109 **Essays, collections and miscellany**
- 110 **Crystallography and optical mineralogy**
 - 111 **Mathematical crystallography**
 - 112 **Crystallization**
(crystal growth, solidification of crystals, crystal lattices)
 - 113 **Physical properties of crystals**
- 115 **Determinative mineralogy**
 - 116 **Laboratory manuals and tables**
 - 117 **Special topics**
(Includes color, fluorescence, microprobe analysis, optics, specific gravity, thin sections)
 - 118 **Chemical analysis**
(not used after 1971, see 880-888)
 - 119 **Chemical mineralogy**
- 120 **Descriptive mineralogy** (general)
 - 122 **Sulfides, selenides, tellurides, arsenides, antimonides**
 - 123 **Sulfo-salts**
(sulfarsenites, sulfantimonites, sulfobismuthites)
 - 124 **Haloids**
(chlorides, bromides, iodides, fluorides)
 - 125 **Oxides**
 - 126 **Oxygen salts**
 - 126.1 **Carbonates**
 - 126.2 **Silicates, titanates, zeolites, and clay minerals**
 - 126.3 **Niobates, tantalates**
 - 126.4 **Phosphates, arsenates, vanadates, antimonates, nitrates**
 - 126.5 **Borates, urenates**
 - 126.6 **Sulfates, chromates, tellurates**
 - 126.7 **Tungstates, molybdates**
 - 127 **Salts of organic acids; oxalates, mellates, and so forth**
 - 128 **Hydrocarbon compounds**
 - 130 **Meteorites**
(For meteors see 734.6)
 - 135 **Pseudomorphs**
(Minerals whose outward crystal form is that of another mineral species);
paramorph (a pseudomorph with the same composition as the original crystal);
paramorphism (property of a mineral to change its internal structure without
changing its external form or chemical composition)
 - 140 **Experimental investigations**
(Shock and blast experiments in mineralogy and so forth)

Petrology

(Origin, occurrence, and structure of rocks)

- 150.3 Textbooks, treatises, general works**
- 150.4 Elementary textbooks**
- 150.5 Catalogs and tables**
- 150.6 Nomenclature and classification**
- 150.7 History**
- 150.8 Petrological technique**
- 150.9 Essays and collections**
- 153 Physical properties of rocks**
- 155 Rock analysis**
- 160 Determination of minerals in rocks**
- 165 Structural petrology**
(Study of rock structure of thin-sections or micro scale including microtectonics and petrofabric analysis; for rock structure on a moderate to small scale, see structural geology at 260; for rock structure on the broad scale, see tectonics at 210)
- 170 Igneous and volcanic rocks**
(Includes basalt, kimberlite, ophiolites, peridotite, and ultrabasic rocks; for magmas or magmatism, see 281)
- 180 Sedimentary and carbonate rocks**
(Includes concretions)
- 180.3 Paleopedology**
(Study of soils of past geologic ages and their age determination)
- 185 Crystalline rocks**
- 190 Metamorphic and metasomatic rocks**
(Includes metasomatite and skarn; for metamorphism and metasomatism, see 283)

SECTION 3 -- GENERAL, STRUCTURAL, AND DYNAMIC GEOLOGY

(Add geographic numbers for regions as needed)

- 201 Geological congresses**
(Includes historical and stratigraphic geology congresses)
- 202 Collections of writings by individual geologists**
- 203 Geological textbooks and general treatises**
 - 203(050) Submarine geology**
(Represents geology of oceans and seas in general and geology of continental shelves and margins; for the geology of specific oceans and seas, use the appropriate geographic number from Section 11)
 - 203.2 Earth sciences** (multidisciplinary works)
 - 203.3 Engineering geology**
 - 203.4 Effects of underground explosions**
 - 203.5 Military geology**
 - 203.6 Environmental and urban geology**
 - 203.7 Nuclear geology**
(Includes radio geology and isotope geology)
- 204 Elementary textbooks, older works, and popular geology**
- 205 Catalogs and encyclopedias**
- 206 Nomenclature and classification**
- 207 History of geology**
(For the history of mineral industries, economic geology, and mines and mining, see 407)
- 208 Geological technique**
(Includes field and laboratory applications)
 - 208.2 Mathematical geology, statistic in geology, and geostatistics**
- 209 Miscellany, essays, collections, and special topics**
 - 209.1 Geological guidebooks** (monographic)
- 210 Dynamic and physical geology**
(Includes works on geodynamics; neotectonics--study of active earth movements, including uplift and tilt; tectonics--study of rock structure on a broad scale; for works on rock structure on a moderate to small scale, see structural geology at 260; for works on rock structure on a thin-section or micro scale, see structural petrology at 165)
- 211 Atmospheric agencies, weathering**
(Includes eolian drift)
- 212 Extraterrestrial forces**
- 213 Erosion**
(Includes works on sediments, sedimentation and deposition, sediment transport, diagenesis, detritus, and drift; for works on glacial drift, see 250; for works on shoreline building or destruction through sediment transport, see 521)
- 214 Underground water action**
- 216 Organic agencies**
- 218 Thermal or igneous agencies**
(Includes hydrothermal deposits and earth temperature; for geothermal resources, see 230)
- 219 Experimental investigations on geology and subtopics**
- 220 Volcanoes, calderas, volcanic eruptions, and volcanism**
(Includes volcanic products: lava, pumice, lahars)
- 225 Extinct volcanoes**

- 229 **Maars**
(Low-relief, broad volcanic crater formed by multiple shallow explosive eruptions, surrounded by a crater ring)
- 230 **Geothermal resources**
(Includes geysers, hot springs, and so forth)
- 240 **Earthquakes, seismology**
(Includes "man made" earthquakes, seismic waves, ground shaking and earthquake hazard analysis; for seismic wave application to earth structure, seismic profiling see 295.2)
 - 240.1 **Conferences**
 - 240.2 **Earthquake engineering and effects of earthquakes on construction**
 - 240.3 **Geomorphological effects of earthquakes**
(Includes earthquake effects on slope stability)
 - 240.4 **Earthquake prediction**
 - 240.5 **Induced seismicity**
 - 240.6 **Soil liquefaction**
 - 240.8 **Seismometry**
(Instrumental aspects of seismology)
 - 240.9 **Paleoseismology**
- 245 **Landslides, avalanches, debris flows, mudslides, and rockslides**
- 248 **Local land subsidences, sinkholes**
- 249 **Natural disasters**
(Includes geological hazards and disaster relief; for specific geologic hazards and associated disasters, see the specific types: earthquakes: 240; landslides: 245; subsidences: 248; hurricanes and typhoons: 515; tsunamis: 533; tornados: 515; floods: 552)
 - 249.1 **Congresses**
 - 249.2 **Natural disasters' effects on construction**
- 250 **Glaciology and glaciers**
(Includes glacial drift)
 - 251 **Drumlins**
(Ridges of compact glacial till built and shaped under the margin of ice)
 - 252 **Eskers**
(Ridges of stratified sand and gravel deposited by subglacial streams)
 - 253 **Moraines**
(Mounds or ridges of unstratified glacial drift deposited by a glacier)
 - 254 **Erosion of glaciers**
 - 255 **Glacial lakes (extinct)**
 - 256 **Ice and snow, periglacial phenomena**
 - 256.1 **Permafrost**
 - 256.2 **Frozen ground**
(Includes cold regions engineering and construction conditions)
- 260 **Structural geology**
(The study of rock structure on a moderate to small scale including form, arrangement, description, representation and analysis; includes bedrock and surficial geology; for rock structure on a broad scale, see tectonics at 210; for rock structure on a thin-section or micro scale, see structural petrology at 165)
 - 267 **Lithosphere**
- 270 **Deformations**
(Includes deformation mechanics; rheology (the study of the deformation and flow of matter); joints (fractures or parting in rocks without displacement); grabens (elongated, depressed crustal blocks, bounded by faults on their long sides).

- 276 **Faults and folding**
(Includes rifts)
- 280 **Intrusions**
(Includes laccoliths (igneous intrusions), domes (large magmatic or migmatic intrusions having convex surface and sides sloping away in low angles), necks (pipelike intrusion), stocks (igneous intrusions less than 40 sq. miles in surface exposure))
- 281 **Magma**s (magmatism)
(For igneous or magmatic rocks, see 170)
- 283 **Metamorphism, igneous metamorphism, and metasomatism**
(For metamorphic and metasomatic rocks, see 190)
- 291 **Oscillation**
(Includes earth movement and earth tilting)
- 293 **Orogeny** (mountain making), **epeirogeny** (a form of diastrophism that has produced the larger features of the continents and oceans)
- 295 **Geophysics**
(For geophysical prospecting see 426)
- 295.2 **Geophysical, seismic profiling, and seismic wave application to earth structure**
- 295.3 **Cosmic physics, Earth tides, space plasma, and so forth**
- 295.5 **Nuclear geophysics**
- 296 **Geomagnetism** (terrestrial magnetism), **aeromagnetism**, and **magnetic surveys**
(prior to 1972 classed in 746; see 314 for paleomagnetism)
- 297 **Isostasy**
(Condition of equilibrium in the Earth's crust and mantle)
- 297.5 **Gravity investigations**
(Includes gravity anomalies; prior to 1972, see 748)
- 298 **Geochemistry**
 - 298.1 **Conferences**
 - 298.2 **Inorganic geochemistry**
 - 298.3 **Biogeochemistry** (organic geochemistry), **biomineralization**, and **humus**
 - 298.4 **Fluid inclusions**

SECTION 4 -- HISTORICAL GEOLOGY

(Add geographic numbers for regions as needed)

- 302 Collections (sets)**
- 303 Historical geology textbooks and general treatises**
- 305 Stratigraphic tables**
- 306 Nomenclature and classification**
- 308 Geologic maps and atlases**
(For books on map making, see 759)
 - 308.4 List of geological maps**
(Includes index maps and map bibliography)
- 309 Essays and collections**
- 310 Earth origin (geogenesis)**
- 311 Continental drift**
(Includes plate tectonics, sea-floor spreading, and subduction zones)
 - 311.1 Conferences**
- 312 Earth crust, Earth mantle**
- 313 Earth (internal structure)**
- 314 Paleogeophysics**
(Includes paleomagnetism)
- 315 Geologic time**
(Includes geochronology, stratigraphic correlation, age determination, potassium-argon dating, radiocarbon dating, tree-ring dating, and so forth)
- 319 Stratigraphy, stratigraphic time periods**
(Includes works on the study of stratified rocks and their geologic time period; for stratigraphic tables see 305)
 - 320 Precambrian**
 - 320.1 Archean**
 - 320.2 Proterozoic**
 - 330 Paleozoic**
 - 332 Cambrian**
 - 333 Ordovician**
 - 334 Silurian**
 - 335 Devonian**
 - 336 Carboniferous**
(Includes Pennsylvanian and Mississippian)
 - 337 Permian**
 - 340 Mesozoic**
 - 341 Triassic**
 - 342 Jurassic**
 - 343 Cretaceous**
 - 350 Cenozoic**
 - 351 Tertiary**
 - 352 Quaternary**
 - 353 Pleistocene**
(Includes glacial epochs)
 - 354 Holocene (Recent)**
- 360 Paleogeography**
(Works on the study of the physical geography of the geologic past)
 - 361 Precambrian**
 - 361.1 Archean**

- 361.2 Proterozoic
- 362 Paleozoic
 - 362.1 Cambrian
 - 362.2 Ordovician
 - 362.3 Silurian
 - 362.4 Devonian
 - 362.5 Carboniferous
 - 362.6 Permian
- 363 Mesozoic
 - 363.1 Triassic
 - 363.2 Jurassic
 - 363.3 Cretaceous
- 364 Cenozoic
 - 364.1 Tertiary
 - 364.2 Quaternary
 - 364.3 Pleistocene
 - 364.4 Holocene (Recent)
- 365 Prehistoric continents: Pangea, Laurasia, and Gondwana
- 366 Prehistoric oceans: Iapetus, Panthalassa, and Tethys

- 370 Paleoclimatology
- 371 Paleohydrology

SECTION 5 -- MINERAL RESOURCES, MINERAL INDUSTRIES, AND ECONOMIC GEOLOGY

(Add geographic numbers for regions as needed)

- 401 Congresses**
- 402 Mineral resources agencies and mining bureaus of countries, states, and provinces**
(Includes map texts by bureaus of mines and mineral resources not classified elsewhere)
EXAMPLES:
 - 402(100) Canada. Mineral Resources Division**
 - 402(274) Arizona Dept. of Mineral Resources**
 - 402(120) Nova Scotia Dept. of Mines**
- 403 Mineral resources and mineral industries**
(textbooks and general works)
 - 403.1 Mineral technology**
(Includes economic aspects of mineral technology)
- 404 Economic aspects of mineral resources and mineral industries including economic geology**
- 405 Encyclopedias and catalogs** (for mineral locations)
- 406 Nomenclature and classification**
- 407 History**
(Includes mining history)
- 408 General mineral and metal statistics**
- 409 Essays, collections, and special topics**
- 410 Ore deposits**
(Includes metal deposits; metallogeny, origin and formation of ores; all other aspects of ore deposits including geochemical and thermodynamic aspects)
 - 411 Lodes, veins, dikes**
 - 412 Rock-forming minerals**
 - 413 Trace elements** (minor and accessory elements)
 - 414 Placer deposits**
 - 415 Economic aspects of metal deposits**
(Includes analyses for economic use)
 - 416 Microscopic determination**
- 420 Mines and mining**
 - 421 Mining law and legislation**
 - 422 Economic aspects of mines and mining**
(Includes mine prospectuses and reports)
 - 422.5 Mining company and corporate annual reports**
 - 424 Mine surveying**
 - 425 Mining methods and working**
(Includes mining engineering, mine safety, strip mining, longwall mining, and rock bursts)
 - 425.2 Mining subsidences**
- 426 Prospecting**
(Geophysical methods in general including water and well logging; for oil well logging, see 467.4)
 - 426.2 Geochemical prospecting**
 - 426.3 Seismic prospecting**
 - 426.4 Other specific prospecting methods**
(Includes electric, nuclear (radioactive), gravity, magnetotelluric, torsion balance methods, and so forth)

- 427 **Hydraulic mining**
- 428 **Taxation and so forth**
- 429 **Metallurgy**
(Includes flotation, leaching, magnetic separation, and ore dressing)
 - 429.1 **Gold** (gold and silver)
 - 429.2 **Silver** (silver and lead)
 - 429.3 **Iron and steel**
 - 429.4 **Copper**
 - 429.5 **Lead, zinc**
 - 429.7 **Other metals**
 - 429.8 **Assaying and ore analysis methods**
 - 429.9 **Machinery**
- 430 **Metals in natural state**
 - 431 **Gold** (aurum; Au), **silver** (argentum; Ag)
 - 432 **Mercury** (quicksilver, hydrargyrum; Hg)
 - 433 **Iron** (ferrum; Fe; includes magnetite), **manganese** (Mg)
 - 434 **Copper** (cuprum; Cu), **tin** (stannum; Sn)
 - 435 **Lead** (plumbum; Pb), **zinc** (Zn)
 - 436 **Nickel** (Ni), **cobalt** (Co)
 - 437 **Antimony** (stibium; Sb)
 - 438 **Aluminum** (Al)
 - 439 **Other metals**
 - Bismuth** (Bi)
 - Cadmium** (Cd)
 - Chromium** (Cr)
 - Gallium** (Ga)
 - Germanium** (Ge)
 - Hafnium** (Hf)
 - Indium** (In)
 - Molybdenum** (Mo)
 - Niobium** (Nb; columbium)
 - Rhenium** (Re)
 - Scandium** (Sc)
 - Tantalum** (Ta)
 - Technetium** (Tc)
 - Thallium** (Tl)
 - Titanium** (Ti)
 - Tungsten** (wolfram; W)
 - Vanadium** (V)
 - Yttrium** (Y)
 - Zirconium** (Zr)
 - 439.1 **Platinum metals**
 - Iridium** (Ir)
 - Osmium** (Os)
 - Palladium** (Pd)
 - Platinum** (Pt)
 - Rhenium** (Re)
 - Rhodium** (Rh)
 - Ruthenium** (Ru)
 - 439.2 **Alkali earth metals**
 - Barium** (Ba)

- Beryllium (Be)**
- Calcium (Ca)**
- Magnesium (Mg)**
- Radium (Ra)**
- Strontium (Sr)**
- 439.21 Alkali metals**
 - Cesium (caesium; Cs)**
 - Francium (Fr)**
 - Lithium (Li)**
 - Potassium (kalium; K)**
 - Rubidium (Rb)**
 - Sodium (Na)**
- 439.3 Lanthanide series (rare earth metals)**
 - Cerium (Ce)**
 - Dysprosium (Dy)**
 - Erbium (Er)**
 - Europium (Eu)**
 - Gadolinium (Gd)**
 - Holmium (Ho)**
 - Lanthanum (La)**
 - Lutetium (Lu)**
 - Praseodymium (Pr)**
 - Promethium (Pm)**
 - Samarium (Sm)**
 - Terbium (Tb)**
 - Thulium (Tm)**
 - Ytterbium (Yb)**
- 439.4 Actinide series**
 - Actinium (Ac)**
 - Americium (Am)**
 - Berkelium (Bk)**
 - Californium (Cf)**
 - Curium (Cm)**
 - Einsteinium (Es)**
 - Fermium (Fm)**
 - Lawrencium (Lr)**
 - Mendelevium (Md)**
 - Neptunium (Np)**
 - Nobelium (No)**
 - Plutonium (Pu)**
 - Protactinium (Pa)**
 - Thorium (Th)**
 - Uranium (U)**
- 439.5 Nonmetallic elements**
 - Arsenic (As)**
 - Boron (B)**
 - Hydrogen (H)**
 - Nitrogen (N)**
 - Oxygen (O)**
 - Phosphorus (P)**
 - Selenium (Se)**

- Silicon (Si)**
- Tellurium (Te)**
- 439.6 Halogens**
 - Astatine (At)**
 - Bromine (Br)**
 - Chlorine (Cl)**
 - Fluorine (F)**
 - Iodine (I)**
- 439.7 Inert gases**
 - Argon (Ar)**
 - Helium (He)**
 - Krypton (Kr)**
 - Neon (Ne)**
 - Radon (Rn)**
 - Xenon (Xe)**
- 440 Nonmetallic minerals (industrial minerals 440-459.91)**
 - 441 Clay**
(Includes clay minerals, attapulgite, bauxite, bentonite, kaolin, laterite, refractory materials, illite, smectite, and ceramic materials (potter's clay, potter's earth, pot clay, pot earth))
 - 441.1 Clay products**
(Includes ceramics, pottery, earthenware (clayware), stoneware, porcelain, brick, and tile)
 - 442 Cement and concrete**
 - 443 Fertilizers**
 - Apatite**
 - Monazite**
 - Potash**
 - Phosphates**
 - Nitrates**
 - 444 Salt**
 - Gypsum**
 - Alum**
 - Alunite (alumite)**
 - Alum stone**
 - 445 Sulphur (sulfur), pyrite**
 - 446 Asbestos**
 - 446.1 Amphiboles**
 - Actinolite**
 - Amosite**
 - Anthophyllite**
 - Crocidilite**
 - Tremolite**
 - 446.2 Serpentinite**
 - Antigorite**
 - Chrysotile**
 - Olivine**
 - 446.3 Mica**
(micaceous minerals)
 - Biotite**
 - Lepidolite**

- Margarite**
- Muscovite**
- Paragonite**
- Phlogopite**
- Roscoelite**
- Vermiculite**
- Zinnwaldite**
- 447 Abrasive materials**
 - Corundum**
 - Emery**
 - Garnet**
 - Pumice**
 - Volcanic ash**
- 448 Mineral paints**
(Includes pigments, ocher for example)
 - 448.1 Barites**
- 451 Talc**
- 452 Fluorite (fluorspar)**
- 453 Silicates**
(For mineralogical aspects, see 126.2)
 - Conglomerates**
 - Feldspar**
 - Fuller's earth**
 - Glass**
 - Kyanite (cyanite)**
 - Quartz**
 - Sand** (For aggregate aspects see 479)
 - Zeolites**
- 454 Carbonates**
(For mineralogical aspects, see 126.1; for petrological aspects, see 180)
 - Lime**
 - Chalk**
 - Marl**
 - Limestone**
 - Dolomite**
- 459 Siliceous earth**
 - Diatomite (tripolite)**
(Includes diatomaceous earth, radiolarian earth, tripoli)
 - 459.9 Other nonmetallic minerals**
 - 459.91 Economic aspects of nonmetals**
- 460 Carbon and its compounds**
(Includes hydrocarbons and methane)
 - 461 Coal**
(For coal mine waste, see 799.5)
 - 461.1 Coal congresses**
 - 461.3 Environmental aspects of coal production**
(For example, coal desulfurization; for environmental aspects of resource development, see 585.3)
 - 461.4 Coal technology**
(Includes liquefaction and gasification)
 - 462 Anthracite**

- 463 **Bituminous**
- 463.5 **Lignite, leonardite**
- 464 **Peat**
- 464.1 **Caustoliths**
(Combustible rocks usually of organic origin (for example, coal or peat); inorganic deposits also occur (for example, sulfur, asphalt, graphite))
- Caustobioliths**
- Caustophytoliths**
- Caustozooliths**
- 465 **Asphalt**
- 466 **Graphite**
- 467 **Petroleum**
(Includes oil deposits, natural gas, oil shales, oil fuel; and also includes economic aspects of petroleum)
- 467.1 **Congresses**
- 467.3 **Petroleum chemistry**
- 467.4 **Petroleum technology**
(Includes petroleum engineering, oil well logging, mudlogging, petroleum geology, and reservoir engineering)
- 467.5 **Petroleum law and legislation**
- 467.7 **Petroleum industry**
(Includes petroleum leases, pipelines, petroleum production and distribution, and oil well supervision)
- 467.8 **Helium**
- 467.9 **Miscellaneous topics on petroleum**
- 468 **Manufactured fuels**
- 469 **Other compounds, including amber and jet**
- 470 **Building and ornamental stones**
(For petrological aspects, see 170-190)
- 471 **Marble, limestone**
- 472 **Onyx**
- 473 **Sandstone**
- 474 **Granite**
- 475 **Slate**
- 476 **Soapstone**
- 477 **Trap**
- 478 **Other building and ornamental stones**
- 479 **Construction and road materials: aggregate**
(crushed stone, sand and gravel); **lightweight aggregate** (pumice, volcanic cinders, expanded shale, foam slag, expanded perlite, and expanded vermiculite)
- 480 **Precious stones, gems**
- 480.5 **Gems** (artistic aspects)
- 481 **Diamonds**
- 482 **Sapphires**
- 483 **Rubies**
- 483.5 **Emeralds**
- 484 **Opal, garnet**
- 485 **Agate**
- 486 **Jade**

- 487 **Tourmaline**
- 488 **Pearls**
- 489 **Amethyst, kunzite, and others**
- 490 **Underground water, aquifers, groundwater flow, groundwater supply, hydrogeology, geohydrology**
(For hydrology, see 780-799)
- 491 **Springs**
- 492 **Artesian wells and water wells in general**
- 493 **Mineral waters** (before 1972, see 491)
- 494 **Groundwater pollution, contamination**
- 495 **Composition, analysis**
- 497 **Groundwater quality**

SECTION 6 – GEOMORPHOLOGY, PHYSICAL GEOGRAPHY, AND PHYSIOGRAPHY.

(Add geographic numbers as needed)

- 500 Topographic maps**
 - 500.1 Landsat maps ,photo maps, and aerial photo maps**
(The numbers 500 and 500.1 are reserved for map classification)
- 501 Congresses**
- 502 Exploring expeditions**
- 503 Text books and general treatises on geomorphology and physical geography.**
- 504 Geography, descriptive**
(Includes economic aspects and general geography)
- 505 Encyclopedias and yearbooks**
- 506 Geographic names**
(Includes gazetteers)
- 507 History of geography, history of geomorphology**
(For general history, see 070)
- 508 Atlases and maps**
(Includes all subject maps with the exception of geology; for geological maps see 308; for cartography, see 759. See p. xi for instructions on how to classify maps filed in map cases.)
 - 508.4 Lists of maps, index maps and map bibliography**
- 509 Essays and collections**
- 510 Meteorology**
 - 511 Atmospheric physics**
(Includes atmospheric circulation, atmospheric gases, greenhouse effect, and ocean-atmosphere interaction)
 - 512 Climatology**
(Includes climate change, global warming, heat budget, and temperature problems)
 - 513 Weather modification**
- 514 Air pollution**
(Includes atmospheric pollutants and radon)
- 515 Winds**
(Includes storms, cyclonic storms, hurricanes, tornados, and typhoons; for tsunami, see 533)
- 516 Droughts**
- 518 Soil formation, soil origin**
(Includes loess, an unstratified, unconsolidated deposit composed of silt, clay, and sand from the Pleistocene age; for other aspects of soils, see 768, 892, and 941)
- 520 Continents**
(For works on continental drift, see 311; for works on Earth's crust, see 312; for works on the continental shelf and continental margins, see 523)
- 521 Shorelines**
(Includes beaches, coastal engineering, coastal zone management, lake earth-water interfaces; shorelines of lakes, reservoirs, and seas; barrier islands)
 - 521.1 Coastal zone conferences**
- 523 Fjords, submarine relief off coasts, continental shelf, continental margins.**
- 525 Coral reefs and islands**
- 530 Oceanography**
(Oceans)

- 530.01 Conferences**
- 530.02 Oceanographic instrumentation**
- 530.1 Atlantic Ocean, North and Baltic Seas**
- 530.2 Mediterranean and Black Seas**
- 530.3 Gulf of Mexico and Caribbean Sea**
- 530.4 South Atlantic Ocean**
- 530.5 Pacific Ocean**
- 530.6 Eastern Pacific and American coasts**
- 530.7 Indian Ocean, Bay of Bengal, and Red Sea**
- 530.8 Arctic Ocean**
- 530.9 Antarctic Ocean**
- 531 Ocean currents**
- 532 Tides, tide gages**
 - 532.1 Sea level changes**
- 533 Waves, tsunamis**
- 535 Icebergs**
 - (Includes sea ice and so forth)
- 536 Marine sediments**
 - (Includes ocean bottom, benthos, and deep sea drilling projects; divided geographically as in 530)
- 537 Marine resources**
 - (Includes ocean mining, ocean mining technologies, deep sea drilling (underwater drilling))
 - 537.1 Conferences**
 - 537.2 Law of the Sea**
 - (Includes fishery law and legislation)
 - 537.5 Marine pollution**
 - 537.6 Manganese and ferromanganese nodules**
- 538 Marine geophysics**
- 539 Marine structures and engineering**
 - (Includes offshore technology and marine platforms)
- 540 Landforms**
 - (Includes physiography, a description of the surface features of the Earth)
 - 541 Mountains**
 - 542 Plateaus**
 - 543 Plains, prairies, and savannas**
 - 544 Hills and mounds**
 - 545 Valleys**
 - 546 Terraces and alluvium**
 - 547 Caves, karst, and sinkholes**
 - 548 Deserts**
 - 549 Dunes**
- 550 Water features**
 - (Includes inland waters (except oceans); for groundwater, see 490; for hydrology, see 780)
 - 551 Springs**
 - (For geothermal resources see 230; for water resources of springs, see 491)
 - 552 Rivers, deltas, watershed systems, stream systems, floods, and flood plains**
 - 553 Waterfalls, cataracts, rapids, and whirlpools**
 - 554 Lakes, ponds, and playas**
 - (Includes limnology)
 - 555 Drainage**

- 556 Swamps, moors, marshes, and wetlands**
- 557 Estuaries, tidal basins, and tidal marshes**
- 558 Bays, lagoons, and sounds**
 Local bays and sounds are not assigned a geographic number. They are classified in a subject number and assigned the geographical number of the state, province, or region with which they are associated:
 - Cape Cod Bay 558(214)**
 - Chesapeake Bay 558(220)**
 - Delaware Bay 558(220)**
 - Long Island Sound 558(221)**
 - Pamlico Sound 558(231)**
 - Puget Sound 558(284)**
 - San Francisco Bay 558(276)**
- 559 Glaciers**
 (For glaciology, see 250)
- 580 Natural resources**
 (Includes resource development, energy, and power resources)
 - 580.1 Energy and power conferences**
 - 580.3 Energy recovery from wastes**
- 582 Environment**
 (Includes environmental law and policy)
 - 582.1 Conferences**
- 583 Pollution**
 (General pollution; includes occurrence, hazardous materials, acid rain, acid deposition, soil pollution and toxicology; see 494 for groundwater pollution; 795 for surface water pollution; 514 for air pollution)
 - 583.1 Pollution conferences**
- 585 Conservation**
 (Includes wildlife conservation and management)
 - 585.1 Conservation conferences**
 - 585.3 Resource conservation**
 (Includes environmental impacts and analysis of resource development)
 - 585.4 Environmental impacts and analysis of human population; demographic studies and environment**
 - 585.5 Land use planning**
 (Includes environmental impacts and analysis of land use, urban and rural planning, public land policy, and reclamation of mined lands)
 - 585.7 Parks, open spaces, wilderness areas, and recreation areas**
 (Includes environmental aspects of these areas)
- 590 Description and travel**

SECTION 7 -- PALEONTOLOGY

(Add geographic numbers for regions as needed)

- 601 Congresses**
- 602 Collections**
(Includes periodicals of paleontological societies, institutes, associations, museums of natural history, university paleontological departments and laboratories; local government departments of paleontology, museums of natural history, and paleontological laboratories)
- 603 Textbooks and general treatises**
 - 603.1 Micropaleontology**
- 604 Elementary textbooks**
- 605 Catalogs**
- 606 Nomenclature and classification**
- 608 Technique**
- 609 Miscellany, essays, and collections**
- 610 Ichnofossil**
(Trace fossils; includes fossil footprints, fossil tracts and so forth)
- 611 Undetermined material**
(Includes problematica, unidentifiable fossil fragments, conodonts, and so forth)
- 612 Paleocology**
 - 612.1 Precambrian**
 - 612.2 Paleozoic**
 - 612.3 Mesozoic**
 - 612.4 Cenozoic**
- 613 Paleobiology**
 - 614 Paleozoology**
 - 614.2 Invertebrata**
 - 615 Protozoa**
 - 616 Rhizopoda**
(Includes amoeba and so forth)
 - 617 Foraminifera**
 - 618 Radiolaria**
 - 620 Coelenterata**
 - 621 Porifera**
(sponges)
 - 625 Anthozoa**
(corals)
 - 626 Hydrozoa**
(Includes hydra, graptolites, stromatoporoids, and so forth)
 - 630 Echinodermata**
 - 631 Pelmatozoa**
(Includes crinoids, cystoids, and blastoids)
 - 632 Crinoidea** (feather stars) **and Cystoidea** (cystoids)
 - 633 Blastoidea**
 - 634 Asterozoa**
(Includes starfish, brittle and basket stars)
 - 635 Ophiuroidea**
(Includes brittle and basket stars)
 - 636 Asteroidea**
(starfish)
 - 637 Echinozoa**
(Includes sea urchins and sea cucumbers)

- 638 **Echinoidea**
(sea urchins)
- 639 **Holothuroidea**
(sea cucumbers)
- 640 **Vermes**
(Includes **Platyhelminthes** (flat worms) and **Nemathelminthes**
(round worms))
- 645 **Annelida**
(earth worms)
- 650 **Molluscoidea**
- 651 **Bryozoa**
- 652 **Brachiopoda**
- 654 **Mollusca**
(Includes conchology)
- 655 **Bivalvia**
(lamellibranchiata or pelecypoda)
- 656 **Scaphopoda**
- 657 **Polyplacoph**
(amphineura)
- 658 **Gastropoda**
(Includes snails, slugs, and so forth)
- 659 **Cephalopoda**
(Includes squid, octopus, nautilus, and ammonites)
- 660 **Arthropoda**
- 662 **Crustacea**
(Includes crabs, lobsters, crayfish, and so forth; also includes
ostracoda)
- 662.3 **Trilobites**
- 665 **Arachnida**
(Includes spiders, scorpions, and so forth)
- 666 **Myriopoda**
(Includes centipedes and millipedes)
- 667 **Insecta**
- 670 **Vertebrata**
- 671 **Pisces**
(fish)
- 673 **Amphibia**
(Includes frogs, salamanders, newts, and so forth)
- 675 **Reptilia**
(Includes dinosaurs, ornithischia, lizards, snakes, and so
forth)
- 677 **Aves**
(birds)
- 679 **Mammalia**
- 679.9 **Man**
(Includes Paleolithic period)
- 679.91 **Archeology**
- 680 **Stratigraphic paleontology**
(Stratigraphic research on specific classes of animals or plants are classed under the
number for that plant or animal)
- 681 **Precambrian**
- 681.1 **Archean**

- 681.2 **Proterozoic**
- 682 **Paleozoic**
 - 683 **Cambrian**
 - 684 **Ordovician**
 - 685 **Silurian**
 - 686 **Devonian**
 - 687 **Carboniferous**
(Includes Mississippian and Pennsylvanian)
 - 687.5 **Permian**
- 688 **Mesozoic**
 - 688.1 **Triassic**
 - 688.4 **Jurassic**
 - 688.7 **Cretaceous**
- 689 **Cenozoic**
 - 689.1 **Tertiary**
(Includes Paleogene and Neogene)
 - 689.5 **Quaternary**
 - 689.6 **Pleistocene**
 - 689.7 **Recent (Holocene)**
- 690 **Paleobotany**
 - 690.1 **Precambrian**
 - 690.2 **Paleozoic**
 - 690.3 **Mesozoic**
 - 690.4 **Cenozoic**
 - 695 **Catalogs, lists, and so forth**
 - 696 **Palynology**
(Includes spores and fossil spores)
 - 697 **Cryptogams**
(Spore bearing plants: ferns, mosses, algae, and fungi)
 - 697.1 **Thallophytes**
(Includes fungi, algae, diatoms, and so forth)
 - 697.2 **Bryophytes**
(Includes liverworts and mosses)
 - 697.3 **Pteridophytes**
(ferns)
 - 698 **Phanerogams**
(seed or flowering plants)
 - 698.1 **Gymnosperms**
(evergreens)
 - 698.2 **Angiosperms**
(flowering plants)
 - 698.5 **Monocotyledons**
(One seed leaf; includes grasses, bamboo, orchids, palms, and so forth; formerly endogens)
 - 698.6 **Dicotyledons**
(Two seed leaves; includes beech, birch, chestnuts, elms, hickory, pecan, poplar, oaks, and so forth; formerly exogens)
- 699 **Miscellany**

SECTION 8 -- MATHEMATICS, ASTRONOMY, ENGINEERING, AND SURVEYING
(Add geographic numbers for regions as needed)

- 701 Congresses**
- 705 Tables**
- 706 Nomenclature, abbreviations, and so forth**
- 708 Technique**
- 710 Mathematics**
 - 711 Arithmetic**
 - 712 Algebra**
 - 713 Geometry**
 - 714 Trigonometry**
 - 715 Analytical geometry**
 - 716 Calculus**
(Includes functions, Fourier's series, integrals, infinite series, and mathematical analysis)
 - 718 Theory of error**
(Includes least squares, probabilities, stochastic processes, and time series)
 - 719 Other branches of mathematics**
(Includes numerical analysis, statistics, topology, theory of groups, vector analysis, and so forth)
- 730 Astronomy**
 - 730.1 Astrophysics**
(the former 730.2, astrogeology was canceled in 1980, see 737)
 - 730.3 Space chemistry**
 - 730.4 Space biology**
 - 730.6 Instruments**
- 731 Theoretical astronomy and celestial mechanics**
 - 731.1 Planetary theory**
- 732 Navigational and nautical astronomy**
(Includes other practical applications of astronomy)
- 733 Spherical astronomy**
(Includes chiefly research on problems relating to the celestial sphere)
- 734 Descriptive astronomy**
 - 734.1 Universe other than the solar system**
 - 734.2 Cosmic dust**
 - 734.3 Asteroids**
 - 734.4 Stars**
 - 734.5 Sun**
 - 734.6 Meteors**
(see 130 for meteorites)
 - 734.7 Comets**
- 735 Planetary astronomy**
(Includes solar system)
 - 735.1 Earth**
 - 735.2 Mars**
 - 735.3 Venus**
 - 735.4 Other major planets**
(Includes Jupiter, Mercury, Saturn)
 - 735.8 Minor planets**

- 736 Moon**
736.1 Lunar geology
736.2 Lunar petrology
736.3 Lunar mineralogy
- 737 Planetary geology**
(Includes astrogeology, formerly 730.2 prior to 1980)
737.1 Mercury
737.2 Venus
737.3 Mars
737.4 Jupiter
737.5 Saturn
737.6 Uranus and Neptune
737.7 Pluto and minor planets
- (for Earth see 203; for the moon, see 736.1 and 736.2)
- 738 Cosmogony**
(Theory of the origin and development of the universe; includes nebular hypothesis)
738.1 Earth
738.2 Mars
738.3 Venus
738.4 Other major planets: Jupiter, Mercury, Saturn
738.8 Minor planets
- 739 Space sciences**
(Includes space exploration, associated space technology, artificial satellites)
739.1 Congresses
739.4 Earth satellites
(for example, ERTS, Landsat, Mapsat, Nimbus, and so forth)
739.5 Satellite instrumentation
739.7 Space shuttles
739.8 Space stations
- 740 Geodesy**
(The investigation of any scientific question regarding the shape and dimension of the Earth)
741 Theory and determination of Earth's figure
742 Base measuring and apparatus
743 Field work of triangulation
744 Computation
745 Formulae and applications
(The former 746, magmatic surveys, was canceled 1972)
747 Longitude and latitude, map projections
748 Global positioning system (GPS), satellite positioning systems
748.1 Lunar geodesy
- 750 Surveying**
(Textbooks, manuals, and so forth; includes general topography)
750.1 Congresses
750.3 Encyclopedias
751 Instruments
752 Measurements of angles, heights, altitudes, leveling
753 Topographical drawing (see 500 for topographical maps)
753.1 Photogrammetry (general) **753.2 Automated photogrammetry**
753.4 Instruments and equipment

- 753.5 **Aerial surveying**
 - 753.55 **Conferences**
- 753.6 **Orthophotography and orthophotomapping**
- 753.7 **Remote sensing**
 - 753.71 **Conferences**
 - 753.74 **Instruments**
 - 753.75 **Remote sensing of natural resources**
 - 753.76 **Remote sensing for hydrologic studies**
 - 753.77 **Remote sensing for geologic and mineralogic studies**
 - 753.78 **Remote sensing for land use studies**
 - 753.79 **Other remote sensing studies**
- 754 **Topographical surveying by states and countries**
- 755 **Boundary surveying**
- 756 **Military, naval, land surveys**
(for special purposes)
- 757 **Drawing, lettering, illustration of books (general)**
- 758 **Coloring**
- 759 **Cartography**
(Includes map making and study; use of geological maps)
 - 759.1 **Conferences**
 - 759.3 **Workbooks**
 - 759.4 **History of cartography**
 - 759.5 **Computerized mapping**
(Includes automated cartography, digital cartography, and spatial data handling)
 - 759.6 **Cartographic standards and manuals**
- 760 **Engineering**
(general treatises and texts)
 - 761 **Conferences**
 - 762 **Reports of utilities companies**
 - 763 **Contracts, specifications**
 - 764 **Designs and drawings**
 - 765 **Tables and calculations**
 - 766 **Materials of construction**
(Includes mechanics of construction materials and friction)
 - 767 **Strength of materials**
(Includes structural engineering)
 - 767.5 **Instruments for testing strength of materials**
 - 767.8 **Testing of materials**
 - 768 **Soil mechanics**
(Includes soil engineering, rock mechanics, and slope stability; for deformations, see 270)
 - 768.1 **Conferences**
 - 768.2 **Foundations**
 - 768.3 **Dams**
 - 768.4 **Other**
(Includes underground construction, compressed air storage, and so forth)
 - 769 **Structures and military construction**
(Includes military structures, buildings, masonry, bridges, air fields; see also 768 for soil engineering, and so forth)

- 770 Mechanical engineering and machinery**
 - 770.3 Vehicles**
 - 770.5 Machines**
- 771 Power engineering**
(Includes description, design, and construction of systems, plants and equipment for generation of power (heat and electricity) from non-atomic fuels, solar rays, terrestrial heat, tides, and waves; see 785 for water-power generation; see 815.2 for nuclear power generation)
- 772 Transportation engineering, railroads**
(see 774 for highway engineering)
- 773 Tunnels and tunneling**
- 774 Highway engineering**
(Includes roads and pavements)
- 775 Bridge engineering**
- 776 Pipelines and pipeline engineering**
- 777 Well drilling and boring**
(see 490 for water wells)
- 778 Hydraulic engineering and machinery**
(Includes canals and channels)
- 779 Agricultural engineering**
(Use only for comprehensive multi-topical and serial publications; see also 785, 790, and 940)
- 780 Hydrology**
(Includes supply of surface water, hydrography, and water budget; for supply of groundwater, see 490)
 - 780.01 Conferences**
 - 780.1 Water--juvenile literature**
 - 780.2 Hydrological instruments, measurements**
(For stream measurements, see 783)
 - 781 Rainfall**
(Includes runoff, snow surveys, and stormwater management)
 - 782 Evaporation and seepage**
 - 783 Stream measurements**
(Includes stream surveys, streamflow, and so forth)
 - 784 Water resources development**
 - 784.1 Water resources development conferences**
 - 785 Stream control, hydroelectric power, and water power**
 - 786 Restoration of land, reclamation of land from oceans, lakes, and so forth.**
(For reclamation of mined lands see 585.5)
 - 790 Water supply for agriculture, rural water supply, and irrigation**
 - 791 Supply and distribution of impounded waters**
(Includes water storage, reservoirs, aqueducts, and dams; see 768.3 for soil engineering aspects of dams; see 490 for supply and distribution of groundwater)
 - 793 Water conservation**
(Includes water use; water for domestic, industrial, municipal, and military use; waterworks, pumping stations, water mains, storm sewers, and engineering aspects of water supply)

- 794 Purification of water supply**
(Includes filtration, demineralization and desalinization; see 797 for water quality)
- 795 Water pollution**
(limited to water pollution since 1972; for general pollution, see 583)
- 795.3 Radioactive pollution of water and waste disposal**
- 795.6 Thermal pollution of lakes, rivers, and so forth**
- 796 Analysis of water**
- 797 Water quality**
(Includes composition of surface water, quality of water supplies, water pollution control, and water chemistry)
- 798 Water rights, legislation, and so forth**
- 799 Sewerage and sanitation**
(Includes public health aspects)
- 799.3 Treatment and disposal**
- 799.5 Industrial (factory and trade) and municipal wastes and their disposal and recycling**
- 799.7 Sewerage utilization**
(Includes water reuse)

SECTION 9 -- PHYSICS AND CHEMISTRY

(Add geographic numbers for regions as needed)

- 801 Conferences**
- 802 Society publications**
- 803 General treatises and textbooks**
- 805 Encyclopedias, tables**
- 806 Nomenclature and classification**
- 807 History**
- 808 Technique, laboratories**
- 809 Essays, lectures, and miscellany**
(Includes works on the theory of time, excluding geologic time)

- 810 Physics**
 - 810.3 General treatises and textbooks**
 - 810.6 Mathematical physics**
 - 811 Conferences**
 - 814 Weights and measures**
(Includes works on the metric system)
 - 814.8 Specific gravity**

 - 815 Constituents of matter, their nature and properties**
(Includes molecular, atomic, nuclear, and particle physics)
 - 815.1 Conferences**
 - 815.2 Nuclear engineering, nuclear power, and atomic power**
(Includes economic aspects, peaceful uses, and power plants)
 - 815.3 Encyclopedias**
 - 815.4 Quantum theory**
 - 815.5 Radioactivity**
(see 838 for radiation)
 - 815.6 Solid state**

 - 817 Materials sciences**
(theoretical and experimental)

 - 820 Mechanics, mass physics**
 - 821 Solids**
 - 821.5 Cratering, experimental (small scale)**
 - 821.6 Explosion craters, contained explosives**
 - 821.65 Nuclear cratering, nuclear explosions**

 - 822 Liquids**
(Includes fluid dynamics, hydrostatics, fluid mechanics, flow of fluids through a porous medium, permeability and porosity of porous media, viscosity, and so forth)
 - 822.3 Rheology**
(Study of the deformation and flow of matter)

 - 823 Gases and pneumatics**
 - 825 Sound, acoustics, and sound waves**
 - 827 High pressure research**

- 828 Impact phenomena**
(Includes physical studies of natural craters and their formation)
- 830 Heat**
 - 831 Apparatus**
 - 834 Thermodynamics**
(Includes low and high temperature research)
- 835 Light**
(Includes light waves, optics, optical absorption, spectroscopy, and so forth)
 - 835.1 Conferences**
 - 835.7 Apparatus and instruments**
(Includes lasers)
 - 837 Photography**
 - 837.1 Microphotography or photomicrography**
 - 837.4 Holography**
(see 835 for theory)
 - 837.5 Audiovisual technology**
- 838 Radiation**
(Includes radioisotopes, electromagnetic waves, particle emissions, X-rays, and cosmic rays; see 815.5 for radioactivity)
- 840 Magnetism**
(for geomagnetism , see 296)
- 845 Electricity**
 - 846 Theory**
 - 847 Experiments**
 - 848 Applications and apparatus**
(Includes electrical engineering and electronics)
 - 848.5 Components**
(Includes devices, instruments and their applications, radios, radar, semiconductors, and telecommunication)
- 849 Waves**
(Includes vibrations and waves not specifically classified elsewhere; for sound waves, see 825; for light waves, see 835; for electromagnetic waves, X-rays, and cosmic rays, see 838)
- 850 Chemistry**
 - 850.1 Conferences**
 - 850.3 General treatises and textbooks**
 - 850.5 Encyclopedias, tables, and yearbooks**
 - 850.6 Nomenclature**
 - 850.7 History**
 - 850.8 Apparatus and laboratories**
 - 850.9 Collections and miscellany**
 - 851 Physical and theoretical chemistry**
(Includes chemical crystallography)
 - 852 Thermochemistry**
(Study of the relationship between chemical action and heat)
 - 853 Atomic theory**
(Includes atomic weights, laws of chemical combination, and nature and properties of chemical elements)
 - 854 Conditions and laws of chemical change**
(Includes catalysis and reaction velocity)

- 855 Theory of solution**
(Includes colloids)
- 856 Radiochemistry**
(Study of radioactive elements, natural and artificial, and their use in the study of chemical processes)
- 860 Experimental chemistry**
 - 863 Equilibria**
 - 865 Electrochemistry**
- 870 Inorganic chemistry**
 - 871 Nonmetallic elements**
 - 872 Metals, metallic elements, organometallic compounds**
- 875 Organic chemistry**
(Includes chemistry of hydrocarbons)
- 878 Biochemistry**
(Includes bacterial chemistry)
- 880 Analytical chemistry**
 - 881 Qualitative analysis**
(Includes spectrum analysis and Mossbauer spectrometry)
 - 882 Micro-chemical analysis**
 - 883 Quantitative analysis**
 - 884 Volumetric analysis**
(Includes gasometric analysis)
 - 885 Electrolytic and magneto-chemical analysis)**
 - 886 Other specific methods of analysis**
(Includes spectrographic X-ray, colorimetric, chromatographic analysis, gas chromatography, and so forth; for theory of spectroscopy, see 835)
 - 887 Analysis of inorganic materials**
(Includes cast-iron, cobalt, copper, metals, minerals, rare earth, rocks, soils, uranium, water, and so forth)
 - 888 Analysis of organic materials**
(Includes coal, fossil biomaterials, fuels, organophosphorus compounds, and so forth)
 - 889 Synthesis**
- 890 Chemical technology and engineering**
 - 890.1 Sorption: adsorption and absorption**
(Includes sorbents)
 - 892 Agricultural and soil chemistry**
 - 895 Alloys**
 - 896 Metallography of steel**
(Includes microscopic research)

SECTION 10 -- BIOLOGY

(Add geographic numbers for regions as needed)

- 901 Conferences on life sciences in general**
(See also 921 for conferences on botany and 971 for conferences on zoology)
- 902 Encyclopedias and handbooks**
- 903 Natural history**
 - 904 Popular and older works**
- 905 Biology**
 - 907 Bacteriology**
(microbiology)
 - 908 Technique**
 - 909 Miscellany and collections of wildlife**
- 910 Anthropology**
- 913 Instinct**
- 915 Evolution, origin of life, extinction of species**
- 917 Physiology**
- 918 Distribution of plants and animals**
- 919 Ecological studies**
 - 919.52 Coastal ecology**
 - 919.53 Marine ecology**
 - 919.54 Landform ecology**
 - 919.55 Freshwater ecology**
 - 919.67 Human ecology**
 - 919.92 Plant ecology**
 - 919.93 Savanna and grassland ecology**
 - 919.94 Soil ecology**
 - 919.97 Animal ecology**
- 920 Botany**
 - 921 Conferences**
 - 923 Textbooks and general treatises**
 - 924 Elementary textbooks**
 - 925 Catalogs**
 - 926 Nomenclature and classification**
 - 927 History**
 - 928 Distribution of plants**
 - 929 Essays, collections, and special topics**
 - 930 Cryptogams**
(Spore bearing plants including ferns, mosses, and fungi)
 - 931 Thallophytes**
(Includes fungi, algae (including diatoms) and lichens)
 - 932 Bryophytes**
(Includes mosses and liverworts)
 - 933 Pteridophytes**
(Includes ferns, horsetails, and club mosses)
 - 935 Phanerogams**
(seed or flowering plants)
 - 936 Gymnosperms**
(evergreens)
 - 937 Angiosperms**
(flowering plants)

- 938 **Monocotyledons**
(One seed leaf; includes grasses, bamboo, orchids, palms, and so forth; formerly endogens)
- 939 **Dicotyledons**
(Two seed leaves, includes beech, chestnuts, elms, hickory, pecan, poplar, oaks, and so forth; formerly exogens)
- 940 **Agriculture and horticulture**
 - 941 **Soil science**
(Includes soils, soil classification, soil micromorphology, soil physics, soil surveys, soil structure, agricultural aspects of soils, humus and loess; for soil erosion, see 213; for soil formation, see 518; for soil mechanics, see 768; for agricultural chemistry, see 892)
 - 941.1 **Soil conferences**
 - 944 **Soil moisture**
- 950 **Forestry, reforestation, forest fires**
- 970 **Zoology**
 - 971 **Conferences**
 - 973 **Textbooks**
 - 974 **Elementary, popular, and older works**
 - 975 **Catalogs**
 - 976 **Nomenclature and classification**
 - 977 **History**
 - 978 **Distribution of animals**
 - 979 **Miscellany**
 - 980 **Invertebrata**
 - 981 **Protozoa**
(Includes amoeba and foraminifera (Rhizopoda); Radiolaria; Heliozoa; also includes paramecium (Ciliata); plankton, and so forth)
 - 982 **Coelenterata**
(Includes sponges (Porifera), corals (Anthozoa), and hydra (Hydrozoa))
 - 983 **Echinodermata**
(Includes Pelmatozoa: feather stars (Crinoidea), cystoids (Cystoidea), blastoids (Blastoidea); Asterozoa: starfish (Asteroidea), brittle stars and basket stars (Ophiuroidea); Echinoidea: sea urchins (Echinoidea), sea cucumbers (Holothuroidea))
 - 984 **Vermes**
(Worms: Platyhelminthes (flatworms), Nemathelminthes (roundworms), and Annelida (earth worms))
 - 985 **Molluscoidea**
(Bryozoa and Brachiopoda)
 - 986 **Mollusca**
(Includes clams, oysters, and so forth; Bivalvia (lamellibranchiata or pelecypoda); snails (Gastropoda); octopus, squids, nautilus, and so forth (Cephalopoda); marine worms (Scaphopoda))
 - 987 **Arthropoda**
(Includes crayfish and lobsters (Crustacea); spiders and scorpions (Arachnida); centipedes and millipedes (Myriopoda); insects (Insecta))
 - 989 **Tunicata** (sea squirts)
 - 990 **Vertebrata**
 - 991 **Fish** (Pisces)

- 993** **Frogs, salamanders, and so forth** (Amphibia)
- 995** **Reptiles** (Reptilia)
(Includes lizards, snakes, and turtles)
- 997** **Birds** (Aves)
- 999** **Mammals** (Mammalia)

SECTION 11 -- GEOGRAPHIC NAMES

Introduction

Geographic numbers are identified by the parentheses that enclose them. When parenthetical numbers (100)-(950) are the only element of a classification number, they represent the publications of the geological surveys of the world at the federal, state, and provincial levels. For example, (100) represents the Geological Survey of Canada; (238) represents the Geological Survey of Kentucky. When an agency performs the functions of a geological survey although it has a name other than "geological survey", its publications are classified as a "geological survey". Publications in this schedule include monographs and serials.

- (000) World**
(used primarily for map classification)
- (020) Space**
(use with map classification)

CELESTIAL BODIES (025)-(037) (use with map classification)

- (025) Moon**
- (030) Jupiter**
 - (030.1) Io**
 - (030.2) Europa**
 - (030.3) Ganymede**
 - (030.4) Callisto**
 - (030.5) Amalthea**
 - (030.6) Ananke**
 - (030.7) Carme**
 - (030.8) Elara**
 - (030.9) Himalia**
 - (030.10) Leda**
 - (030.11) Lysithea**
 - (030.12) Pasiphae**
 - (030.13) Sinope**
- (031) Mars**
 - (031.1) Deimos**
 - (031.2) Phobos**
- (032) Mercury**
- (033) Neptune**
 - (033.1) Nereid**
 - (033.2) Triton**
- (034) Pluto**
 - (034.1) Charon**
- (035) Saturn**
 - (035.1) Dione**
 - (035.2) Enceladus**
 - (035.3) Hyperion**
 - (035.4) Iapetus**
 - (035.5) Janus**
 - (035.6) Mimas**

- (035.7) Phoebe
- (035.8) Rhea
- (035.9) Tethys
- (035.10) Titan
- (036) Uranus
 - (036.1) Ariel
 - (036.2) Miranda
 - (036.3) Oberon
 - (036.4) Titania
 - (036.5) Umbriel
- (037) Venus

HEMISPHERE NUMBERS

- (040) Northern Hemisphere
- (041) Southern Hemisphere
- (042) Western Hemisphere
(includes The Americas)
- (043) Eastern Hemisphere

(050) OCEANS AND SEAS OF THE WORLD

- (051) Atlantic Ocean
- (052) North Atlantic Ocean
- (053) Hudson Bay and Hudson Strait
- (054) Baffin Bay, Gulf of St. Lawrence, Davis Strait, Smith Sound, Kane Basin, Labrador Sea
- (055) Norwegian and Greenland Seas, Denmark Strait
- (056) North Sea, Skagerak, English Channel
- (057) Baltic Sea, Gulf of Riga, Mecklenburg Bay
- (058) Celtic Sea, St. Georges Channel, Bristol Channel, Irish Sea, Solway Firth, North Channel, Firth of Clyde
- (059) Mediterranean Sea and straits
(includes Ligurian Sea, Tyrrhenian Sea, Adriatic Sea, and Ionian Sea)
- (060) Black Sea, Sea of Azov
- (062) Gulf of Mexico, Sargasso Sea
- (063) Caribbean Sea
- (065) South Atlantic Ocean
- (066) Scotia Sea
- (067) Great Lakes, St. Lawrence Seaway
- (068) Caspian Sea, Aral Sea
- (070) Indian Ocean
- (071) Arabian Sea
- (072) Red Sea, Gulf of Aden
- (073) Persian Gulf, Gulf of Oman
- (074) Bay of Bengal
- (080) Pacific Ocean
- (081) North Pacific Ocean, Philippine Sea
- (082) Bering Sea
- (083) Eastern Pacific, American coasts, Gulf of Alaska, and Gulf of California
- (084) South Pacific, Tasman Sea, Coral Sea

- (085) Indonesian and Micronesian Seas**
(includes Timor, Arafura, Banda, Flores, Java, Celebes, and Sulu Seas, and others)
- (086) South China Sea**
- (087) East China Sea, Yellow Sea, Formosa Strait**
- (088) Sea of Japan, Sea of Okhotsk**
- (090) Arctic Ocean, Lincoln Sea**
- (091) Beaufort Sea, Northwest passages**
- (092) Barents Sea, White Sea**
- (093) Kara, Laptev, East Siberian, and Chukchi Seas**
- (096) Antarctic Sea**
(includes Ross, Amundsen, Bellingshausen, and Weddell Seas)

CONTINENTS AND COUNTRIES OF THE WORLD

Americas (see (042))

(099) NORTH AMERICA

- (100) Canada**
 - (110) New Brunswick**
 - (120) Nova Scotia, Prince Edwards Island, Cape Breton Island**
 - (130) Newfoundland**
 - (135) Labrador**
(use only with maps)
 - (137) St. Pierre et Miquelon**
(includes other islands belonging to France)
 - (140) Quebec and Ungava**
 - (150) Ontario**
 - (160) Manitoba**
 - (165) Saskatchewan**
 - (170) Alberta**
 - (180) British Columbia**
 - (182) Yukon**
 - (183) Northwest Territories**
(as a whole)
 - (184) Mackenzie**
 - (186) Keewatin**
 - (188) Franklin**
 - (190) Arctic America**
(Canadian)
- (200) United States**
 - (207) Northeastern States**
 - (208) Atlantic Coast**
 - (210) New England**
 - (211) Maine**
 - (212) New Hampshire**
 - (213) Vermont**
 - (214) Massachusetts**
 - (215) Rhode Island**
 - (216) Connecticut**

- (220) Middle Atlantic States**
 - (includes Appalachia)
 - (221) New York**
 - (222) New Jersey**
 - (223) Pennsylvania**
 - (224) Delaware**
 - (225) Maryland**
 - (226) District of Columbia**
 - (227) Virginia**
 - (228) West Virginia**
- (229) Southern States**
 - (230) Southern States, Eastern Section**
 - (231) North Carolina**
 - (232) South Carolina**
 - (233) Georgia**
 - (233.9) Gulf States**
 - (234) Florida**
 - (235) Alabama**
 - (236) Mississippi**
 - (237) Louisiana**
 - (238) Kentucky**
 - (239) Tennessee**
 - (240) Southern States, Western Section**
 - (241) Arkansas**
 - (243) Indian Territory**
 - (244) Oklahoma**
 - (245) Texas**
- (249) Central States**
 - (250) Central States, Eastern Section**
 - (251) Ohio**
 - (252) Indiana**
 - (253) Illinois**
 - (254) Wisconsin**
 - (255) Michigan**
 - (260) Central States, Western section**
 - (261) Minnesota**
 - (262) Iowa**
 - (263) Missouri**
 - (264) North Dakota**
 - (265) South Dakota**
 - (266) Nebraska**
 - (267) Kansas**
- (269) Western States**
 - (270) Southwestern States**
 - (271) Colorado**
 - (272) New Mexico**
 - (273) Utah**
 - (274) Arizona**
 - (275) Nevada**
 - (276) California**

- (280) Northwestern States**
 - (281) Montana**
 - (282) Wyoming**
(includes Yellowstone National Park)
 - (283) Idaho**
 - (284) Washington**
 - (285) Oregon**
 - (286) Alaska**
(includes Aleutian Islands)
 - (289) Pacific Coast**

Geographic numbers for the following U.S. territories located outside the conterminous United States are assigned to the region in which they are located:

- American Samoa, *see* (960)**
- Guam, *see* (970)**
- Hawaii, *see* (950)**
- Puerto Rico, *see* (394)**
- U.S. Virgin Islands, *see* (394.1)**

(299) LATIN AMERICA

- (300) Mexico**
 - (310) Free Zone and Northern States**
 - Tamaulipas**
 - Nuevo Leon**
 - Coahuila**
 - Chihuahua**
 - Sonora**
 - Durango**
 - (320) Lower California and Islands**
(Baja California: Baja Sur, Baja Norte)
 - (330) Central Pacific States**
 - Jalisco**
 - Colima**
 - Michoacan**
 - Nayarit**
 - (340) Interior States**
 - Zacatecas**
 - San Luis Potosi**
 - Aguascalientes**
 - Guanajuato**
 - Queretaro**
 - Hidalgo**
 - Puebla**
 - Tlaxcala**
 - Morelos**
 - (350) Mexico State**
 - Mexico City and environs**

- Mexico**
(Federal District)
- (360) Southern Gulf States**
 - Veracruz**
 - Tabasco**
 - Campeche**
 - Yucatan**
 - Quintana Roo**
- (370) Southern Pacific States**
 - Queretaro**
 - Oaxaca**
 - Tehuantepec, Isthmus of**
 - Chiapas**

(380) CENTRAL AMERICA

- (381) Guatemala**
- (382) Belize**
(formerly British Honduras)
- (383) Honduras**
- (384) El Salvador**
- (385) Nicaragua**
- (386) Costa Rica**
- (387) Panama and Panama Canal**
- (390) West Indies**
(includes Caribbean Region)
 - (391) Cuba**
 - (392) Jamaica**
 - (392.2) Cayman Islands**
 - (393) Hispaniola**
 - (393.3) Haiti**
 - (393.5) Dominican Republic**
(formerly Santo Domingo)
 - (394) Puerto Rico**
 - (394.1) Virgin Islands**
 - (394.2) British Virgin Islands**
 - (394.3) Trinidad and Tobago**
 - (395) Bahamas, Turks, and Caicos Islands**
 - (396) Leeward Islands**
(includes Anguilla, Antigua, Barbuda, Montserrat, Nevis, Redonda, Saba, St. Christopher, St. Martin, St. Eustatius, and Sombrero)
 - (397) Windward Islands**
(includes Martinique, Guadeloupe, Dominica, St. Lucia, St. Vincent, Grenada, and the Grenadines Islands)
 - (397.1) Barbados**
 - (398) Bermuda**
 - (399) The Netherlands Antilles**
(includes Dutch Antilles; including Curacao, Aruba, and Bonaire)

(400) SOUTH AMERICA

- (410) Brazil**
- (420) Argentina**
- (429) Patagonia**
- (430) Chile**
- (440) Bolivia**
- (450) Peru**
- (460) Colombia**
- (465) Ecuador**
- (470) Venezuela**
- (480) Guyana**
- (481) French Guiana**
- (482) Surinam**
(formerly Netherlands Guiana or Dutch Guiana)
- (490) Uruguay**
- (492) Paraguay**
- (497) Falkland Islands**
(includes South Georgia and South Sandwich Islands)

(500) EUROPE

- (510) Great Britain**
 - (511) Islands of northern Great Britain**
(includes Orkney Islands, Fair Island, Shetland (Zetland) Islands, Hebrides: Outer Hebrides: Lewis and Harris, North Uist, South Uist, Barra, St. Kilda, and Flannan Islands; Inner Hebrides: Skye, Mull, Islay Islands, and other lesser islands and islets)
 - (512) Scotland**
 - (515) Ireland**
(Eire)
 - (516) Northern Ireland**
 - (520) England and Wales**
 - (520.5) Colonial geological surveys**
 - (521) Islands of the Irish Sea: Isle of Man and so forth; Islands of St. Georges Channel: Lundy Island, Isles of Scilly, and so forth; Channel Islands: Alderney, Guernsey, Jersey, and Sark**
- (530) Germany, German Federal Republic**
 - (530.11) Lower Saxony**
(Niedersachsen)
 - (530.111) Hamburg**
 - (530.112) Bremen**
 - (530.12) Bavaria (Bayern)**
 - (530.13) Rhineland-Palatinate**
(Rheinland-Pfalz)
 - (530.14) Baden-Wurttemberg**
 - (530.15) North Rhine-Westphalia**
(Nordrhein-Westfalen)
 - (530.16) Hessen**
 - (530.17) Schleswig-Holstein**
 - (530.18) Saarland**

- (530.19) Berlin**
(includes West Berlin and the reunified city 1990-)
- (530.21) Saxony-Anhalt**
(Sachsen-Anhalt)
- (530.22) Brandenburg**
- (530.3) Saxony**
(Sachsen; discontinued 1945-1989; reinstated with the unification of Germany, 1990-)
- (530.35) Thuringia**
(Thuringen; discontinued 1945-1989; reinstated with the unification of Germany, 1990-)
- (530.7) Mecklenburg-Vorpommern**
(discontinued 1945-1989; reinstated with the unification of Germany, 1990-)

Discontinued numbers:

- ***(530.1) Prussia**, ***(530.2) Bavaria**,
- ***(530.4) Wurttemberg**, ***(530.5) Baden**,
- ***(530.6) Hesse**, ***(530.75) Schleswig-Holstein**,
- ***(530.8) Brunswick**, ***(530.85) Hanover-Celle**,
- ***(530.9) Alsace-Lorraine** (before Nov. 1918)
- (531) German Democratic Republic 1949-1990**
(East Germany; includes the following districts: Cottbus, Dresden, East Berlin, Erfurt, Frankfurt, Gera, Halle, Karl-Marx-Stadt, Leipzig, Magdeburg, Neubrandenburg, Potsdam, Rostock, Schwerin, and Suhl)
- (532) Czechoslovakia**
- (532.2) Czech Republic**
- (532.3) Slovakia**
- (533) Austria**
- (533.1) Galicia**
- (534) Hungary**
- (534.1) Croatia-Slovenia before 1914**
- (535) Switzerland**
- (536) Liechtenstein**
- (540) France**
(includes Corsica (Corse))
- (540.7) Alsace-Lorraine (after Nov. 1918)**
- (548) Monaco**
- (550) Italy**
(includes the Mediterranean islands of Sardinia and the Tuscan Archipelago: Montecristo, Giglio, Pianosa, Capraia, Elba, etc.; Lipari Islands: Stromboli, Vulcano, Salina, and so forth; Sicily; and Pantelleria)
- (551) San Marino**
- (559) Iberian Peninsula**
- (560) Spain**
(includes Gibraltar and Balearic Islands)
- (565) Andorra**
- (569) Portugal**
- (570) Russia (1992)**
(includes European Russia, Kaliningrad, Orenburg, Chelyabinsk and Sverdlovsk oblasts;

use also for the former Soviet Union (including Russian S.F.S.R., U.S.S.R., European R.S.F.S.R. until 1992))

- (571) Ukraine**
- (571.1) Moldova**
(1993)
- (572) The Caucasus**
- (572.1) Armenia**
(1993)
- (572.2) Azerbaijan**
(1993)
- (572.3) Georgia**
(1993)
- (573) Estonia**
- (574) Latvia**
- (575) Lithuania**
- (576) Baltic region**
- (577) Belarus**
(Byelorussia, White Russia)
- (578) Poland**
- (579) Finland**
- (580) Scandinavia**
 - (581) Norway**
 - (583) Sweden**
 - (585) Denmark**
 - (585.5) Faeroe Islands**
- (587) Iceland**
- (590) Other European countries**
 - (591) Netherlands**
 - (592) Luxembourg**
 - (593) Belgium**
 - (594) Romania**
 - (595) Bulgaria**
 - (596) Yugoslavia**
(includes Serbia and Montenegro until 1992)
 - (596.1) Croatia**
 - (596.2) Serbia**
(1993)
 - (596.3) Slovenia**
 - (596.4) Bosnia-Herzegovina**
 - (596.41) Montenegro**
(or Crna Gora, also Tsernagora; 1993)
 - (596.5) Macedonia**
 - (596.6) Albania**
 - (597) Greece**
(includes Ionian Islands and Crete)
 - Turkey**
(see (680))
 - (599) Malta**
 - Cyprus**
(see (684))

(600) ASIA

- (610) China**
 - (610.1) Fukien**
 - (610.12) Heilungkiang**
 - (610.2) Honan**
 - (610.21) Hopeh**
 - (610.3) Hunan**
 - (610.31) Hupeh**
 - (610.32) Kansu**
 - (610.4) Kiangsi**
 - (610.41) Kiangsu**
 - (610.42) Kirin**
 - (610.5) Kwangtung**
 - (610.51) Macau (Macao) and Hong Kong**
 - (610.6) Kweichow**
 - (610.61) Liaoning**
 - (610.62) Shansi**
 - (610.63) Shantung**
 - (610.64) Shensi**
 - (610.7) Sinkiang-Uighur**
 - (610.8) Szechwan**
 - (610.81) Tsinghai**
 - (610.82) Yunnan**
 - (610.83) Anhwei**
 - (610.84) Chekiang**
 - (610.9) Autonomous regions**
 - (610.91) Inner Mongolia**
 - (610.92) Kwangsi Chaung**
 - (610.93) Ningsia Hui**
- (611) Taiwan (Formosa)**
- (615) Nepal, Bhutan, central Asia and area northwest of Tibet, and Sikkim**
(before 1975, class as independent state; after 1975, class as province of India at (641.71))
- (616) Tibet**
- (618) Manchuria**
(after 1949, roughly identical with Chinese provinces of Hielungkiang, Kirwin, and Liaoning)
- (619) Mongolian People's Republic**
(includes Mongolia, formerly Outer Mongolia, a Chinese province)
- (620) Japan**
- (625) Korea**
- (629) Southeastern Asia**
 - (630) Indo-China**
 - (631) Vietnam**
 - (633) Laos**
 - (634) Cambodia**
 - (635) Thailand**
(formerly Siam)
 - (637) Malay States**
(after 1963, see Malaysia 911)

- (638) Chagos Archipelago**
- (639) Islands of South China Sea and other isolated Asian islands.**
- (640) India**
 - (640.2) Assam**
 - (640.3) Gujarat**
 - (640.4) Bihar**
 - (640.5) Harayana**
 - (640.51) Himachal Pradesh**
 - (640.6) Rajasthan**
 - (640.7) Kerala**
(formerly Travancore)
 - (640.8) Uttar Pradesh**
 - (641.3) Manipur**
 - (641.4) Meghalaya**
 - (641.41) Marharashtra**
 - (641.5) Nagaland**
 - (641.6) Orissa**
 - (641.7) Punjab**
 - (641.71) Sikkim**
 - (641.8) Tripura**
 - (642) Tamil Nadu**
(formerly Madras)
 - (643) Rewa**
(now in Madhya Pradesh)
 - (643.2) West Bengal**
 - (643.3) Jammu and Kashmir**
 - (644) Madhya Pradesh**
 - (645) Karnataka**
(formerly Mysore)
 - (646) Andra Pradesh**
 - (646.2) Union Territories**
(includes Andaman and Nicobar, Arunachal Pradesh, Chandigarh, Dadra and Nagar Haveli, Delhi, Goa, Daman, Diu, Lakshadweep, Mizoram, and Pondicherry)
- (647) Burma**
(Myanmar)
- (648) Pakistan**
(formerly West Pakistan; includes Punjab, Sind, North-West Frontier Province, and most of Baluchistan; see (660) for Iranian Baluchistan)
- (648.5) Bangladesh**
(formerly East Pakistan)
- (649) Sri Lanka**
(formerly Ceylon)

(650) MIDDLE EAST AND NEAR EAST

- (655) Afghanistan**
- (660) Iran**
(formerly Persia; includes part of Baluchistan; see (648) for Pakistani Baluchistan)
- (664) Arabian Peninsula**

- (665) Iraq**
(formerly Mesopotamia)
- (670) Saudi Arabia**
- (671) Yemen**
(Yemen Arab Republic; Yemen (San'a))
- (672) Oman**
(formerly Muscat and Oman)
- (673) People's Democratic Republic of Yemen**
(formerly Aden, Socotra, South Yemen, South Arabia)
- (674) Kuwait**
- (675) Bahrain, Qatar, and United Arab Emirates**
(formerly Trucial States; includes Abu Dhabi, Ajman, Dubai, Fujairah, Ras, Al-Khaimah, Sharjah, and Umm al-Qaiwain)
- (680) Turkey**
- (681) Israel**
(includes Palestine)
- (682) Syria**
- (683) Lebanon**
- (684) Cyprus**
- (685) Jordan**

(690) SIBERIA

- (690.2) Western Siberia**
(includes Kurgan, Tyumen, Omsk, Tomsk, Novosibirsk, Kemerovo oblasts; Altay Kray (including the Sayan Mountains); see (570) for Orenburg, Chelyabinsk, and Sverdlovsk oblasts)
- (690.3) Eastern Siberia**
(includes Krasnoyarsk Kray, Sakha or Yakutia (formerly Yakut A.S.S.R.), Buryatia (formerly Buryat A.S.S.R), Tuva (formerly Tuva A.S.S.R.), Irkutsk and Chita oblasts, Transbaikalia, and Taymyr Peninsula)
- (691) Far Eastern Siberia (formerly Soviet Far East)**
(includes Magadan, Kamchatka, Amur oblasts, Khabarovsk, and Primorski Kray (formerly Maritime Territory))
- (693) Sakhalin Oblast and Kurile Islands**
- (693.5) Central Asian region**
(formerly Soviet Central Asia)
 - (694) Tajikistan**
 - (695) Kazakstan**
 - (695.3) Turkmenistan**
 - (695.6) Kyrgyzstan**
 - (696) Uzbekistan**
- *(697) Eastern Siberia**
(discontinued 1975, see (690.3))
- (699) Eurasia**

(700) AFRICA

- (710) North Africa**

- (710.1) **Libya**
(includes the former provinces of Tripolitania, Cyrenaica, Fezzan, and Barka (Barca))
- (720) **Egypt**
(includes the Nile country, Sinai, and Suez Canal)
- (720.5) **Sudan**
(formerly Anglo-Egyptian Sudan)
- (730) **Algeria**
- (735) **Tunisia**
- (740) **Morocco**
(includes Spanish Morocco, Tangier, and Ifni)
- (741) **Western Sahara**
(formerly Spanish Sahara)
- (741.5) **Equatorial Guinea**
(formerly Spanish Guinea)
- (742) **Guinea-Bissau**
(formerly Portuguese Guinea)
- (743) **Mali**
(formerly French Sudan)
- (744) **Mauritania**
- (745) **Guinea Republic**
(formerly French Guinea)
- (746) **Cote d'Ivoire**
(formerly Ivory Coast)
- (747) **Burkina Faso**
(formerly Upper Volta)
- (747.5) **Benin**
(formerly Dahomey)
- (748) **Togo**
(or Togolese Republic; formerly French Togo)
- (749) **Azores, Madeira, Canary Islands, and Cape Verde Islands**
- (749.5) **South Atlantic Islands**
(includes Ascension, St. Helena, and Tristan da Cunha)
- (750) **West African Region**
(includes Western Sahara and Central Africa)
- (750.1) **Niger Republic**
- (751) **Cameroon**
- (751.5) **St. Thomas and Principe**
- (752) **Nigeria**
- (753) **Ghana**
(formerly Gold Coast)
- (754) **Liberia**
- (755) **Sierra Leone**
- (756) **Central African Republic**
(formerly French West Africa)
- (756.2) **Senegal**
- (756.4) **Gabon**
- (757) **Chad**
- *(758) **French Equatorial Africa**
(discontinued 1972; see Chad, Gabon, Congo, or Central African Republic)

- (759) **Gambia**
- (760) **Zimbabwe**
(formerly Rhodesia, Southern Rhodesia)
- (761) **Zambia**
(formerly Northern Rhodesia)
- (763) **Congo, Republic of**
(formerly Congo (Brazzaville))
- (764) **Congo, Democratic Republic of**
(formerly Zaire; Belgian Congo)
- (768) **Angola**
(formerly Portuguese West Africa)
- (769) **East African Region**
(includes Horn of Africa)
 - (770) **Burundi**
 - (771) **Rwanda**
 - (772) **Ethiopia**
(formerly Abyssinia)
 - (772.1) **Eritrea**
 - (772.5) **Djibouti, Afars, and Issas**
 - (773) **Somalia**
(formerly Somaliland)
 - (774) **Tanzania**
(formerly Tanganyika; includes the Island of Zanzibar (see (779), Pemba, and Mafia)
 - (775) **Kenya**
(formerly British East Africa)
 - (776) **Uganda**
 - (777) **Malawi**
(formerly Nyasaland)
 - (778) **Mozambique**
 - (779) **Zanzibar**
(In 1964 became part of Tanzania)
- (780) **South African Region**
(includes Matebele Kingdom)
 - (780.4) **Botswana**
(formerly Bechuanaland)
 - (781) **Namibia**
(formerly Southwest Africa; includes Damaraland and Namaqualand (Namaland, Great Namaqualand, or Great Namaland)
 - (782) **Cape of Good Hope**
(formerly Cape Colony)
 - (783) **Orange Free State**
(formerly Orange River Colony)
 - (784) **South African Republic**
 - (785) **Transvaal**
 - (786) **Natal**
(includes Zululand)
 - (786.5) **Lesotho**
(formerly Basutoland)

- (787) **Republic of South Africa**
(formerly Union of South Africa; includes Little Namaland of Little Namaqualand)
- (788) **Swaziland**
- (790) **Madagascar**
(formerly Malagasy Republic)
- (791) **Reunion Islands**
- (792) **Mauritius**
- (795) **Comoro, Seychelles, Cocos-Keeling, Maldive Islands, and unspecified Indian Ocean Islands**

(800)-(890) AUSTRALIA, TASMANIA, AND NEW ZEALAND

- (800) **Australia**
 - (810) **Queensland**
 - (820) **New South Wales**
 - (830) **Victoria**
 - (840) **South Australia**
 - (845) **Northern Territory**
 - (860) **Western Australia**
 - (880) **Tasmania**
- (890) **New Zealand**
- (899) **Islands off the coast of Australia, Tasmania, New Zealand, and other Australasian islands not included in Oceania.**

(900) OCEANIA AND THE MALAY ARCHIPELAGO

- (910) **Indonesia**
(includes Bali, Bangka, Ceram (Seram), Dutch East Indies, Flores, Java, Kalimantan (south, central, east, and west Borneo), Lombok, Madura, Moluccas (Maluku), Nusa Tenggara (West Timor), Sumatra, Sumba, Sumbawa, Timor (East Timor), West Irian (western half of New Guinea))
- (911) **Malaysia**
(includes Malayan states, and Sabah, Sarawak, and Brunei (North Borneo))
- (912) **Singapore**
- (920) **The Philippines**
- (930) **Melanesia**
(includes Papua New Guinea and Bismarck Archipelago (New Britain, New Ireland, New Hanover), and Admiralty Islands)
- (933) **New Caledonia and Loyalty Islands**
- (935) **Vanuatu**
(formerly New Hebrides)
- (937) **Solomon Islands**
- (940) **Micronesia**
(includes Caroline, Ladrone, Marianas, Marshall, Gilbert, and Palau Islands; Nauru and the Trust Territory of the Pacific Islands)
- (950) **Hawaii**
- (960) **Polynesia**
(includes French Polynesia: Marquesas, Society (includes Tahiti and Bora-Bora), Gambier, Tubuai Islands (Austral Islands), and Tuamotu Archipelago; Cook, Ellice, Tokelau, Phoenix,

and Line Islands; Samoa, Tonga (Friendly Islands), Midway, Horn, Johnston, Easter, Palmyra, Howard, Baker, Fiji Islands)

(970) Guam and other isolated islands

(includes Bonin, Marcus, Galapagos Islands, and so forth)

(979) Other isolated islands of Oceania

(980) Arctic regions

(includes Baffin Island (formerly Baffin Land), Greenland, Svalbard, and so forth)

(990) Antarctic regions

(995) Polar regions

SECTION 12 -- PUBLICATIONS OF GEOLOGICAL SURVEYS, EARTH SCIENCE, GENERAL SCIENCE, AND GOVERNMENT DOCUMENT SERIALS

1. Publications of Geological Surveys.

The geological survey schedule contains the monographs and serials issued by the geological surveys of the world and those agencies that perform the functions of geological surveys. Typical numbers consist of a geographical number followed by a shelf list number and ending with a date. For example, (200) R29o is the call number for the serial "U.S. Geological Survey open-file reports". For complete instructions on the construction of geological survey call numbers see the introduction.

2. Earth science serials: G(100)-G(995)

- a. This schedule contains the serial publications of earth science associations, societies, institutes, earth science departments of universities, and geology oriented publisher's series. Typical call numbers consist of classification numbers (G added to a geographic number (see Section 11), shelf list numbers), and title marks. For detailed instructions on the construction of call numbers, see the introduction. Monographic publications by these institutions are classified in the subject schedule (see Sections 1-10).
- b. Serials with the following subject matter are classified in the G schedule:

Economic geology
Geochemistry
Geodynamics
Geology
Historical geology
Mineralogy
Neotectonics
Ore deposits
Paleontology
Petrology
Physical geology
Stratigraphic geology
Structural geology
Tectonics

3. General science serials--S(100)-S(995)

- a. The S schedule contains serials issued by general science societies, associations, institutes, university science departments, and science publishers. Typical call numbers contain elements similar to those found in the G schedule. For detailed instructions on the classification of serials in the S schedule, see the introduction. All monographic publications issued by these institutions are classified in the subject schedule.
- b. Although this section was originally designed for general science subjects excluding the earth sciences, over the years some earth science subjects were

included here, namely: earthquakes, seismology, geophysics, geothermal resources, geysers, and glaciology. The following subjects are classified in the S schedule:

Astronomy
Biology
Chemistry
Computer science
(canceled in 1998; class computer science periodicals in 034.5-039.8)
Conservation
Earthquakes
Engineering
Environment
Geography
Geomorphology
Geophysics
Geothermal resources
Geysers
Glaciology
Groundwater
Hydrology
Hydrogeology
Mathematics
Metals
Mineral industries
Mines and mineral resources
Natural gas
Natural resources
Oceanography
Petroleum
Physics
Pollution
Precious stones
Remote sensing

4. Serials of government agencies--P(100)-P(995)

This schedule contains the serial publications of federal, state, provincial, and local agencies throughout the world, with the exception of the publications of mineral and mining bureaus (see Section 5, Mines and Mineral Resources at 402). Also excluded are the publications of the geological surveys of the world (see Section 11). The monographic works of these agencies are classified in the subject schedule (see Sections 1-10). From 1976 to 1989 most monographic government documents were included in the "P" schedule. The current policy is to classify them in the subject schedule (see Sections 1-10).

5. Serials not classified in "G", "P", or "S":

Periodicals that are international in scope or published by an international body.

034.5-039.8 Computer science periodicals

- 041, 042 Bibliographies**
- 045.1 Library science periodicals**
- 055 Statistical yearbooks**
- 056-057 Periodical directories**
- 402 Publications of mining and mineral bureaus including periodicals and monographs**
- 602 Periodicals of paleontological societies, institutes, and associations; museums of natural history, university paleontological departments and laboratories; local government departments of paleontology, museums of natural history, and local paleontological laboratories.**
- 780 Prior to 1983 some state and local government hydrology publications were included in this number. After 1983 the policy is to classify all hydrology periodicals in S schedule with the exceptions of state and local government publications which are classified in P(XXX).**
- (100)-(995) Publications of geological surveys**

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