

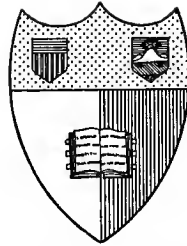
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Mathematics

Classification by Richard Bliss, Librarian of Redwood Library,
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Notation by C. A. Cutter.

SYNOPSIS

Generals LB

Arithmetic LC

Algebra LD

Theory of numbers LDS-LDZ

Calculus of probability, etc. LE-LEH

Numerical computation LEI-LEK

Mathematical recreations LEL-LEY

Analysis LF

Infinitesimal calculus LFA

Differential and integral calculus LFB-LFD

Differential equations LFE

Calculus of finite differences LFG

Boundary value problems LFH

Calculus of variations LFL

Functions LFM-LFY

Geometry LG

General topics (Topology, etc.) LG-LGAY

Empirical geometry LGAZ

Greek synthetic LGB

Synthetic geometry of Guldin, etc. LGBG
 Elementary geometry LGBJ-LGCZ
 Trigonometry LGD
 Modern synthetic (Pure geometry) LGE
 Practical geometry (Geometrography) LGFN-LGFY
 Geometry of position (Carnot) LGFZ
 Geometry of transformation LGG
 Descriptive LGH-LGHH
 Projective LGHI-LGIZ
 Application of algebra and analysis to geometry LGJ
 Vector analysis LGE-LGK
 Quaternions LGG
 Directional calculus (Ausdehnungslehre) LGJJ
 Algebraic geometry (Analytical geometry) LGK-LGS
 Geometry of line and sphere in space LGT
 Enumerative geometry LGU-LGUH
 Geometry of n-dimensional space LGUI-LGUY
 Differential geometry LGV-LGX
 Absolute (non-Euclidean) geometry LGY
 Kinematics, Motion LGZ

- Philosophy, Principles *See* LBA
- LB·1 Study, Instruction (Mathematical pedagogics)
- LB·2 Bibliography
Better in Bibliography
- LB·4 History
Better in LBB
- LB·5 Dictionaries
- LB·6 Tables
Better in LBI-LBV except in very small collections
- LB·7 Periodicals
- LB·8 Societies, Congresses
- LB·9 Collections of works by several authors
- LB** General and miscellaneous works
(Including Higher Mathematics ; an alternative place in LBYZ)
- LBA Philosophy, principles

LBB History of mathematics

Subdivision by periods and countries

- L_BBA Antiquity
- L_BCC Egyptians
- L_BBE Babylonians and Chaldeans
- L_BBG Hindus and Chinese
- L_BBI Greeks
- L_BBK Romans
- L_BBM Middle ages
- L_BBO Arabs
- L_BBU Europe
- L_BBY Renaissance and modern
This will not need country subdivisions

Subdivision by subjects

Or the history of each subject may be put under the subject, e. g.:

- LC4 History of arithmetic
- LD4 History of algebra
- LFL4 History of the calculus of variations

LBC	Arithmetic
LBD	Algebra
LBDA	Theory of functions
LBDS	Theory of numbers
LBE	Calculus of probability and adjustment
LBF	Analysis
LBFA	Infinitesimal analysis
LBFB	Differential and integral calculus
LBFC	Differential equations
LBFF	Calculus of finite differences
LBFI	Calculus of variations
LBFO	Theory of functions
LBG	Geometry
LBGA	Empirical
LBGB	Greek synthetic
LBGBA	Ionic school
LBGBB	School of Pythagoras
LBGBC	Sophist school
LBGBD	Platonic school
LBGBE	First Alexandrian school
LBGG	Modern synthetic
LBGU	Analytical (Coordinate)
LBGZ	Non-Euclidean
LBH	Applied mathematics (general works only)

LBI Mathematical tables

LBK	Arithmetical
LBKA	Multiplication
LBKE	Divisor (Factor) and Primes
LBKI	Quarter squares
LBKL	Squares, cubes, square and cube roots
LBKO	Higher powers
LBKS	Triangular numbers
LBKU	Reciprocals
LBKY	Vulgar fractions as decimals

L _{BL}	Logarithmic and circular (Trigonometrical)
L _{BLA}	Logarithms of numbers
L _{BLC}	Circular functions (sines, cosines, tangents); Logarithmic-trigonometrical functions
L _{BLE}	Natural
L _{BLG}	Logarithmic
L _{BLI}	Exponential
L _{BLK}	Hyperbolic logarithms (Napier's logarithms)
L _{BLL}	Hyperbolic sines and cosines
L _{BLN}	Natural
L _{BLO}	Logarithmic
L _{BLP}	Conversion of Briggsian and Hyperbolic logarithms
L _{BLR}	Antilogarithms
L _{BLS}	Addition and subtraction logarithms (Gaussian logarithms)
L _{BLT}	Logistic logarithms
L _{BLU}	Proportional logarithms
L _{BLV}	Interpolation tables
L _{BLY}	Dual logarithms
L _{BQ}	Mensuration
L _{BR}	Mathematical constants
L _{BR E}	Transcendental
L _{BS}	Algebraic constants
L _{BSA}	Bernoullian numbers
L _{BSE}	Binomial theorem coefficients
L _{BSI}	Irreducible cubic equations
L _{BSO}	Figurate numbers
L _{BSS}	Trigonometrical quadratic surds
L _{BST}	Circular decimals
L _{BSU}	Hyperbolic antilogarithms
L _{BSY}	Factorials
L _{BT}	Transcendental functions
L _{BT A}	Elliptic
L _{BT E}	Gamma
L _{BT I}	Legendrian coefficients
L _{BT O}	Bissel's
L _{BTS}	Sine, cosine and exponential
L _{BT U}	Logarithmic transcendental
L _{BT Y}	Non-numerical integrals
L _{BU}	Theory of numbers
L _{BU A}	Divisors and primes
L _{BU E}	Canon arithmeticus
L _{BU I}	Pelleian equation
L _{BU O}	Partition
L _{BU U}	Binary, ternary, quadratic, etc.
L _{BV}	Miscellaneous
L _{BVA}	Combinations
L _{BVE}	Permutations

LBW Problems, syllabi, examination papers, collections

The problems on special topics are at the end of the topic

LBX Calculus of logic, logic and mathematics

LBV Mathematical symbols, Pasigraphy

LBZ Algorithms (Algorithms)

Lc Arithmetic*

LCA Number concept, numbers and numbering

LCB Pythagorean numbers

LCC Positive and negative quantities

LCD Proportion

LCE Factors

LCF Prime numbers.

See also LBUA, LDTA

LCG Fractions

LCH Decimal fractions

LCI Irrational numbers (Surd)

LCIA Algebraic

LCID Transcendental

LCIR Rationalization

LCJ Complex numbers

LCJE Imaginary quantities

LCJI Graphic representation

LCJO Quaternions

See also LGID

LCK Doctrine of mass of points, Aggregation

LCL Transfinite numbers

LCM Doctrine of limits

LCME Exhaustions

See also LGBH

* The boundaries of Arithmetic and Algebra are not well defined, and a few of the topics included under this head are sometimes placed in Algebra

LCN	Infinite processes
LCO	Series, Infinite series
LEOA	Convergence and divergence
LEOC	Progression
LEOE	Transformation
LEOG	Arithmetical series
LEOI	Geometrical series
LEOK	Harmonic series
LEOX	Recurring series
LEOO	Bernoullian numbers
LEOP	Power series
LEOR	Fourier's (trigonometric) series
LEOS	Hypergeometric series
LEOV	Sterling's series
LEOX	Interpolation <i>See also</i> LBAR
LEOY	Mean value <i>See also</i> LEAV
LCP	Infinite product
LCPE	Faculties and factorials
LCQ	Continued fractions
LCQE	Partial fractions
LCQI	Infinite determinants <i>See also</i> LBOX
LCQP	Infinite processes with complex terms
LCR	Combinatorial analysis (Kombinatorik)
LCRC	Combination. Permutation
LCRI	Inversion. Transposition
LCRO	Applications
LCS	Distribution function
LCT	Theory of partitions
LCTA	Sylvester's graphic method
LCTE	Extension to three dimensions
LCU	Method of differential operators
LCV	Binomial theorem. Binomial coefficient
LCW	Polynomial theorem
LCX	Figurate numbers
LCY	Groups. Finite discrete groups
LCYA	Group theory
LCYE	Substitutions
LCYI	Substitution groups
LCZ	Problems

LD Algebra

LDA	Theory of functions
LDA A	Theory of limits
LDA E	Eliminants
LDA I	Divisor system
LDA O	Whole functions (Polynomes)
LDA P	One variable
LDA Q	Several variables
LDA R	Rational functions
	<i>See also</i> LCOX
LDA S	One variable
LDA T	Several variables
LDA Y	Continuous and discontinuous functions
LDA Z	Systematic functions
LDB	Arithmetical theory of algebraic quantities
LDB E	Conjugate bodies
LDC	Algebraic forms (Algebraic configuration; Quantics)
LDC A	Modulus system
LDC B	Theorems
LDC C	Binary forms
LDC CA	Transvection. Transvectants
LDC CE	Evectant process
LDC CO	Associated forms
LDC D	Invariants and covariants
LDC E	Special forms and groups
LDC F	Combinants
DDCG	Resultants
LDC H	Discriminants
LDC I	Seminvariants
LDC J	Reciprocants
LDC K	Systems of invariants
LDC L	Relationship of forms
LDC LA	Associated forms
LDC LE	Canonical forms (Canonizants)
LDC LI	Inversion problems
LDC M	Invariant processes
LDC N	Apolarity
LDC O	Automorphic binary forms
LDC P	Correlation principle
	Hesse's determinant <i>See</i> LDDQ
	Functional (Jacobian) determinant <i>See</i> LDDP
LDC Q	Enumerating generating functions
LDC QP	Perpetuants
LDC QS	Simultaneous seminvariants of two binary forms
LDC QT	Two binary forms

L _{DCR}	Restricted substitutions
L _{DCRO}	Orthogonal system
L _{DCS}	Quadratic forms
L _{DC^T}	Bilinear
L _{DCU}	Ternary quadratic
L _{DCV}	Ternary cubic
L _{DCW}	Ternary of the fourth order
L _{DCX}	Quaternary quadratic
L _{DCY}	Quaternary cubic
L _{DCZ}	Automorphic ternary, quaternary, etc.
L _{DD}	Determinants
L _{DDA}	Laplace's formula
L _{ddb}	Compound determinants
L _{DDC}	Symmetric
L _{DDe}	Recurring (Orthosymmetric, Hankel's)
L _{DDF}	Persymmetric
L _{DDG}	Circulant (Double orthosymmetric)
L _{DDH}	Skew symmetric (Semi-symmetric)
L _{DDI}	Skew
L _{DDJ}	Jacobi's symbol
L _{DDK}	Centrosymmetric
L _{DDL}	Special forms
L _{DDLB}	Vandermonde's (Cauchy's)
L _{DDL^c}	Continuant
L _{DDLF}	Zeipel's
L _{DDLI}	Stern's
L _{DDLK}	Smith's
	Other special determinants
L _{DDN}	Functional
L _{DDO}	Wronski's
L _{DDP}	Jacobi's ("Functional")
L _{DDQ}	Hesse's
L _{DDR}	Resultant
L _{DDS}	Discriminant
L _{DDU}	Cubic
L _{DDV}	Determinants of higher order
L _{DDX}	Infinite
	<i>See also</i> L _{CQI}
L _{DDY}	Matrices

L _{DE}	Algebraic equations
L _{DF}	Transformation and reduction
L _{DG}	Resultants and discriminants
L _{DH}	Systems of linear equations
L _{DI}	Solution of equations
L _{DI A}	Quadratic (equation of 2nd degree)
L _{DI C}	Cubic " 3rd "
L _{DI E}	Biquadratic " 4th "
L _{DI G}	Quintic " 5th "
L _{DI H}	Equation of the 6th degree
L _{DI K}	Binomial (Cyclotomic)
L _{DI M}	Reciprocal
L _{DI O}	Trinomial
L _{DI R}	Numerical
L _{DJ}	Sturm's function (Sturm's theorem)
L _{DK}	Transcendental equations
L _{DL}	Separation of the roots
L _{DM}	Approximation of the roots
L _{DN}	Real and complex roots
L _{DO}	Rational functions of the roots
L _{DO S}	Symmetric
L _{DO V}	Affect
L _{DO Y}	Formulae and processes
L _{DP}	Galois theory
L _{DQ}	Finite groups of linear substitutes
L _{DR}	Problems

L_{DS} Theory of numbers

See also L_{BU}

L _{DT}	Elementary theory
L _{DT A}	Prime numbers
	<i>See also</i> L _{CF}
L _{DT C}	Perfect numbers
L _{DT E}	Amicable numbers
L _{DT G}	Magic squares
	<i>See also</i> L _{ER}
L _{DT I}	Congruence and residue
L _{DT K}	Quadratic binary forms. Equivalence
L _{DT M}	Binomial congruence
L _{DT O}	Exponential congruence

L _{DTR}	Diophantine equation
L _{DTU}	Partial fractions
L _{DTV}	Quadratic residue. Law of reciprocity
	Theory of forms <i>See</i> L _{DC}
L _{DV}	Analytical theory of numbers
L _{DVE}	Reduction
L _{DVI}	Gauss's sums
L _{DVO}	Arithmetical functions
L _{DW}	Algebraic and transcendental numbers
L _{DWA}	Rational domain
L _{DWE}	Galois field
L _{DWI}	Ideal numbers
L _{DWU}	Transcendental numbers
L _{DWY}	Value of π
L _{DX}	Cyclotomy
	<i>See also</i> L _{GCY}
L _{DY}	Complex multiplication
L _{DZ}	Problems

L_E Calculus of probability, and allied problems

L _{EA}	Antecedent probability (A priori probability)
L _{EAB}	Tables of values
L _{EAD}	Direct determination
L _{EAF}	Indirect determination
L _{EAI}	Total probability
L _{EAM}	Composite probability
L _{EAL}	De Moivre's problem
L _{EAN}	Problem of duration of play. Games of chance
L _{EAP}	Geometrical probability (Local probability)
L _{EAR}	Buffon's needle problem
L _{EAT}	Problem of points (Four point problem)
L _{EAV}	Mean value and theory of errors
	<i>See also</i> L _{COV}
L _{EB}	Probability from repeated observations
L _{EBE}	Bernoulli's theorem
L _{EBI}	Poisson's law (Law of large numbers)

LEC	A posteriori probability
LECE	Baye's theorem
LED	Accidental occurrences determining loss and gain
LEDE	Mathematical expectation
LEDI	Mathematical risk
LEDO	Moral expectation
LEE	Calculus of adjustment (Method of least squares; Theory of errors)
LEEB	Law of facility of errors
LEED	Law of frequency of errors
LEEF	Theorem of arithmetical mean
LEEJ	Gauss' foundation
LEEK	Laplace's foundation
LEEL	Other methods
LEEN	Law of errors of observation
LEEP	Mean, average and probable errors
LEER	Adjustment of conditional observations
LEES	Errors in the plane and in space
LEET	Errors in adjustment
LEEV	Systematic concealment of errors
LEEX	Interpolation
LEEY	Interpolation formulae
LEEZ	Construction of mathematical tables
LEF	Application of the Calculus of adjustment to statistics (Mathematical statistics)
LEFA	Laplace's method
LEFD	Lexis' dispersion theory
LEFE	Serially varying probability
LEFI	Theoretical probability, Statistical mean value
LEFL	Formal theory of population
LEFO	Mortality probabilities and coefficients
LEFU	Mortality tables. Life tables
LEFY	Individuality tables
LEG	Life insurance
LEGA	Statistical tables
LEGB	Life tables. Valuation tables
LEGC	Vital statistics
LEGD	Numerical tables

LEGE	Accident and sickness insurance
LEGF	Normal risk
LEGG	Extra risk
LEGH	Net capital
LEGI	Premiums
LEGF	Premium reserve
LEGK	Life annuities
LEGL	Joint-life annuities
LEGM	Gross capital
LEGN	Extra payment and expense
LEGO	Redemption values
LEGP	Balance
LEGQ	Profit
LEGR	Dividends
LEGS	Tontine system
LEGT	Theory of risks
LEGU	Mean risk
LEGV	Average risk
LEGY	Stability

Calculus of finite differences See L_{FG}

LEI Numerical computation

LEJ Exact computation

LEJA	Without special apparatus
LEJB	Systematic multiplication and division
LEJC	Complementary multiplication and division
LEJD	Numerical tables

See also L_{BI}

LEJE Calculating apparatus and machines

LEJF	Apparatus
LEJG	Abacus
LEJH	Addition and subtraction
LEJI	Multiplication and division
LEJJ	Arithmograph
LEJK	Calculating machines
LEJL	Ordinary calculation
LEJM	Numbering mechanism
LEJN	Comptometers. Adders
LEJO	Interpolation mechanism
LEJP	Extended addition machine
TEJQ	Exact multiplication
LEJR	Subtraction and division; Quotient apparatus
LEJS	Special appliances
LEJT	Compound calculation (Automatic machines)
LEJU	Difference engine (Calculating engine)
LEJV	Analytical engine

LEK Approximate computation

- LEKA Without special apparatus
- LEKB Abridged multiplication
- LEKC Abridged root extraction
- LEKD Numerical tables .
See also LBI
- LEKE Graphic calculation
- LEKF Fundamental scale uniformly divided
- LEKG Fundamental scale logarithmically divided
- LEKH Graphic tables. Nomography
- LEKI Functions of one variable
- LEKJ Cartesian tables
- LEKK Hexagonal tables
- LEKL Method of alined points
- LEKM Continuous calculating apparatus
- LEKN Logarithmic slide-rule
- LEKO Curved slide-rule (Spiral slide-rule)
- LEKP Ordinary arithmetical operations
- LEKQ Equations with one variable
- LEKR Solution of equation systems
- LEKS Physical methods
- LEKT Hydrostatic solution of equations
- LEKU Electric solution of equations
- LEKV Proofs

LEL Mathematical recreation (Games)

- LEM Arithmetical problems
- LEME Problems in numbering
- LEMG Josephus game
- LEMO Bachets weights
- LEMU Fermats theorem
- LEN Geometrical problems
- LEND Coloring maps

LENE	Tessellation
LENO	Problems with counters. Tait's problem
LENU	Transportation problems
LENY	Geometrical puzzles (Rods, Rings, etc.)
LEO	Miscellaneous puzzles
LEOA	The 15-puzzle (Boss puzzle)
LEOE	Tower of Hanoi
LEOI	Chinese rings
LEOO	Eight queens problem
LEOU	Fifteen school girl problem (Kirkman's problem)
LEP	Universal problems
LEPA	Bridge problem
LEPE	Labyrinths and mazes
LEPI	Geometrical trees <i>See also LGAL</i>
LEPO	Hamiltonian game (Dodecahedron game)
LEPU	Knight's path problem
LER	Magic squares <i>See also LDTG</i>
LES	Euler's square
LET	Problems with chess-board and draught board
LEU	Domino games
LEV	Solitaire problems (This is not the Solitaire commonly called "Patience" for which see LEX)
LEX	Problems with cards
LEY	Paper folding <i>See also LGFY</i>

LEYZ Higher mathematics

Better with general works LB

L_F Analysis

(Real quantities)

LFA Infinitesimal analysis (Infinitesimal calculus)

LFAL Theory of limits

LFAN Theory of functions

LFAR One variable

LFAS Several variables

LFB Differential and integral calculus

LFC Differential calculus

LFCA Function of one variable

LFCC Function of several variables

LFCE The infinite

LFEG Derivation

LFCE Differentials. Differentiation

LFCK Maxima and minima

LFCL Indefinite forms

LFCE Development in series

LFCS Mean value theorem

LFCT Expansions

LFCE Taylor-Maclurin's theorem

LFCE Rolle's theorem

LFD Integral calculus

LFDA Function of one variable

LFDB Function of several variables

LFDD Definite integral

LFDE Gamma function

LFDG Beta function

LFDI Bernoullian numbers

LFDK Gauss' sums

LFDL Improper integral

LFDN Elliptical integral

LFDO Multiple integral

LFDS Linear differential forms

LFDT Apparatus and methods

LFDU Planimeter. Integrator

LFDV Integrator

LFDV Harmonic analysers

LFE Differential equations

LFEA Ordinary differential equations

LFEC Singular integral

LFEE Ordinary linear differential equations

LFEG Equations of the n-th order

LFEI	Integration by means of series
LFEK	Simultaneous differential equations
L FEL	Calculus of operations
L FEO	Partial differential equations
L FEP	Arbitrary functions
L FES	Total differential equations
L FET	Pfaff's problem. System of Pfaffians
L FEU	Non-linear differential equations
L FEY	Higher differential problems
L FF	Continuous transformation groups
L FFE	Point transformation
L FFI	Contact transformation
L FFO	Differential invariants
L FFU	Application to differential equations
L FG	Calculus of finite differences
L FGA	Interpolation. Interpolation functions
L FGC	Newton's interpolation formula
L FGE	J. Bernoulli's function
L FGI	Approximation formula
L FGO	Euler's summation formula
L FGU	Inverse difference calculus
L FGY	Equation of differences
	Determinants <i>See</i> LDD
L FH	Boundary value problems
L FI	Ordinary differential equations
L FJ	Partial differential equations
L FK	Theory of potentials
L FL	Calculus of variations
L FLA	Theory of maxima and minima
L FLC	Variations of a single integral
L FLE	First variation
L FLG	Lagrange's multiplier method
L FLI	Isoperimetric problems
L FLL	Second variation
L FLN	Weierstrasse's theory

LFLQ	Variation of multiple integrals
LFLR	Various problems
LFRA	Newton's
FLRB	Brachistochrone
LFLS	Application to geometry and mechanics
LFLT	Trigonometrical interpolation (Mathematical treatment of periodic natural phenomena)
LFLU	With one known period
LFLV	With several known periods
LFLW	With concealed periodicity
LFLX	Tables, etc.

Complex quantities

LFM	Analytic functions
LFN	Functions of complex variables
LFNA	Differentiation and integration
LFNE	Weierstrass's function
LFNI	Transcendent functions
LFNO	Continuity
LFNU	Holomorphic and meromorphic functions
LFNY	Essential singular point
LFO	Geometric theory of functions
LFP	Analytic functions and infinite series
LFPA	Series of Wronski and Lagrange
LFPE	Development of Fourier's series
LFPI	Development by Legendre's function
LFPO	Development by Laplace's function
LFPU	Development by Bessel's function
LFQ	Functions of several complex quantities
LFR	Algebraic functions and their integrals
LFR A	Algebraic configuration
LFR E	Riemann's surfaces
	<i>See also</i> LGAF, LGAK
LFR I	Abelian integrals. Hyperelliptic integral
LFR O	Abelian theorem
LFR U	Special representatives and functions
LFS	Special functions
LFS A	Exponential
LFS D	Logarithmic
LFS E	Circular and hyperbolic

LFSI	Gonometric and cyclometric <i>See also</i> LGDA
LFSL	Bernoullian
LFSM	Eulerian constant. Harmonic constant
LFSN	Beta and Gamma functions
LFSO	Hypergeometric functions
LFSP	P1 function
LFSR	Spherical functions (Spherical harmonic, Laplace's function)
LFSRG	General representation
LFSS	Functions of the second species
LFST	Theory of poles
LFSTZ	Zonal harmonics
LFSTU	Expansion
LFSTV	Associated functions
LFSTW	Harmonic analysis
LFSTX	Bessel's (cylindrical) functions
LFSTY	Lamé's functions (Ellipsoidal harmonics)
LFSTYC	Functions of elliptical and parabolic cylinders
LFSTYG	Toroidal functions Other spherical functions
LFT	Inverse functions
LFU	• Elliptic functions and integrals
LEUD	Jacobi's
LEUL	Jacobi's Theta
LEUN	Weierstrass's
LEUR	Modular
LEUS	Transformation of functions
LEUY	Multiplication of the arguments
LFV	Hyperelliptic (Ultraelliptic) and Abelian functions
LEVE	Jacobi's inversion theory
LFVI	Ultraelliptic transcendental function
LFVO	Abel's theta function
LFVU	Klein's sigma function
LFX	Automorphic functions
LFXE	Fuchsian. Thetafuchsian
LFXI	Kleinian
LFY	Functions in union with groups
LFYD	Linear substitution groups
LFYL	Polyhedral groups and functions
LFYN	Periodic and doubly periodic functions
LFYR	Arithmetical theory of algebraic functions
LFZ	Problems

LG Geometry

LG Foundation and principles

LG A Euclidean and non-Euclidean (General discussion.)

For special treatment see Plane geometry LGBJ and Absolute geometry LGY

LGAA Theory of parallels

LGAB Hypothesis of continuity

LGAC Space. Space division

LGAD Hyperspace

See also LGUI and LGY

LGAE Curved (non-homaloidal) space

LGAF Elliptic

LGAG Hyperbolic

LG AH Topology (Analysis situs) Polyhedra

LGAI Connection of surfaces

LG AJ Reimann's surfaces

See also LFRE

LGAK Reimann's surfaces projectively considered

LGAL Trees (knots)

See also LEPI

LGAM Connection of spaces

LGAN Beltrami's numbers

LG AO Topology of 3-dimensional space

LG AP Polyhedra. Polyhedra theory

See also LGCC

LG AQ Polygons

LG AR General theory

LG AS Special forms

LG AI Inscriptible

LGAT	Polyhedra
LG AU	General theory
LG AV	Eulerian (simple polyhedra)
LG AW	Special Eulerian
LG AWE	Regular (Platonic solids)
LG AWI	Semi-regular (Archimedean solids)
LG AWO	Polyhedra nets
LG AX	Special of higher order
LG AXA	Polyhedra of 4-dimensions
LG AXE	Polyhedra of n-dimensions
LG AXI	Stellate
LG AXL	Poinsot's solid
LG AXO	Semi-regular
LG AXU	Symmetrie
LG AXY	Ring
LG AY	Crystallography (May be put in Mineralogy if preferred)

LG AZ Empirical geometry

Arranged by authors under countries, as in history of mathematics, or, better, in one general alphabet of authors

LGB Greek synthetic geometry

Works of individual writers arranged alphabetically under the schools ; or in one general alphabet

LGBA	Ionic school
LGBAA	Anaxagoras
LGBAT	Thales
LGBB	School of Pythagoras
LGBBA	Archytas
LGBBO	Philolaus
LGBBP	Pythagoras
LGBC	Sophist school
LGBCA	Antiphon
LGBCB	Bryson of Heraclea
LGBCG	Democritus
LGBCH	Hippias of Elis
LGBCI	Hippocrates
LGBD	Platonic school
LGBDA	Aristæus
LGBDE	Eudoxus

LGBDI	Dinostratus
LGBDM	Menæchmus
LGBDP	Plato
LGBE	First Alexandrian school
LGBEA	Apollonius
LGBEB	Archimedes
LGBED	Eratosthenes
LGBEE	Euclid
LGBEH	Hipparchus
LGBEN	Nicomedes
LGBF	Second Alexandrian school
LGBFL	Claudius Ptolemaeus
LGBFP	Pappus
LGBFQ	Proclus

LGBG Synthetic geometry of Guldin, Kepler, Roberval, etc.

LGBH	Method of exhaustions <i>See also</i> LCME
LGBI	Method of indivisibles

LGBJ Elementary geometry (Euclidean geometry)

LGBK	Plane (Planimetry)
LGBL	Right line
LGBM	Plane
LGBN	Angle
LGBO	Triangle
LGBP	Quadrilateral. Tetragon
LGBQ	Parallelogram
LGBR	Deltoid
LGBS	Polygon <i>See also</i> LGAQ
LGBT	Circle <i>See also</i> LGF

LGC	Solid (Stereometry)
LGCA	Trihedron [*]
LGCB	Tetrahedron
LGCC	Polyhedron <i>See also LGAP</i>
LGCD	Prism
LGCE	Parallelopiped
LGCF	Prismoid. Obelisk
LGCG	Prismatoid
LGCH	Pyramid ¹
LGCI	Cylinder
LG CJ	Cone
LGCK	Sphere
LGCL	Symmetry and similarity
LGCM	Porisms
LGCN	Golden section (Median section)
LGCO	Theory of transversals
LGCP	Loci
LG CQ	Mensuration
LGCR	Insoluble problems
LGCS	Trisection of the angle
LGCT	Duplication of the cube
LGCU	Delian problem
LGCV	Quadrature of the circle (Circle squaring, Cyclotomy) <i>See also LDX</i>
LG CZ	Problems

LG D Trigonometry

LGDA	Trigonometric functions. Goniometry
LGDB	Deformation of trigonometric expressions
LGDC	Auxiliary angles
LGDD	De Moivres theorem
LGDE	Series
LGDF	Logarithms
LG DG	Logarithmic tables <i>See also LEL</i>

LGDH	Formulae
LGDI	Transformation
LGDJ	Plane trigonometry
LGDK	Right-angled triangle
LGDL	Oblique-angled triangle
LGDM	Trigonometrical developments
LGDN	Spherical trigonometry (Spherics)
LGDO	Right-angled triangle
LGDOX	Napier's rules
LGDP	Oblique-angled triangle
LGDPB	Quadrantal angle
LGDPJ	Reid's method
LGDQ	Spherical excess
LGDQB	Girard's theorem
LGDQJ	Cagnoli's theorem
LGDQO	L'Huilier's theorem (Lhuilieran)
LGDR	Inscribed and circumscribed circles
	<i>See also</i> LGEU
LGDS	Circles on the sphere
	<i>See also</i> LGF
LGDT	Analytical trigonometry
LGDU	Radian measure
LGDV	Spheroidal trigonometry
LGDW	Loxodromic trigonometry
LGDX	Pseudospherical trigonometry
	<i>See also</i> LGWL
LGDY	Hyperbolic trigonometry
	<i>See also</i> LGYC
LGDZ	Problems
LGE	Modern synthetic geometry
LGEA	Plane (General works)
LGEB	Solid (General works)
LGEC	Theory of the mean center
LGED	Weill's theorem
LGEE	Reciprocal theorems

LGEF	Maximum and minimum
LGEG	Method of infinitesimals
LGEH	Point O theorem
LGEI	Inversion
LGEJ	Involution
LGEK	Geometry of the triangle
LGEL	Rectilinear figures
LGEM	Collinear points and concurrent lines
LGEN	Pascal's hexagram
LGEO	Brianchon's hexagram
LGEP	Harmonic section and ratio
LGEQ	Theory of similar figures
LGER	Properties of two triangles
LGES	Gaskin's theorem
LGET	Hesse's theorem
LGEU	Circumscribed, inscribed and escribed circles <i>See also</i> LGDR
LGEV	Symmedians
LGEW	Grebe point
LGEN	Brocardian figure
LGEXA	Brocard point and angle
LGEXE	Brocard circle (Seven point circle)
LGEXI	Equibrocardian triangle
LGEXO	Neuberg circle
LGEXU	McCay circle
LGEY	Lemoine circle
LGEZ	Tucker's circles
LGEZA	Cosine circle
LGEZE	Triplicate ratio circle ("T. R." circle)
LGEZI	Taylor's circle
LGEZO	Malfatti's problem
LGEZU	Concentric circles
LGEZY	Nine points circle. Feuerbach's theorem
LGEZZ	Cosymmedian triangles
LGF	Geometry of the circle
LGFA	Pole and Polar
LGFB	Salmon's theorem
LGFC	Reciprocation
LGFD	Inscribed and circumscribed tetrastigm and tetragram
LGFE	Properties of two circles
LGFF	Circles of similitude and antisimilitude
LGFG	Coaxal circles

LGFH	Systems of circles
LGFI	Three circles
LGFG	Apollonian problem
LGFK	Four circles
LGFL	Circular triangle

LGFM Problems

LGFN Practical geometry (Constructive geometry; Geometrography)

LGFO Drawing instruments and apparatus

LGFP Instrumental drawing

LGFQ Mechanical

LGFR Machine

LGFS Architectural

LGFT Ship draughting

LGFU Topographical

LGFV Stereotomy (Stone cutting)

LGFW Crystallographic

} See the various subjects

LGFX Models

LGFY Paper folding
See also LEV

LGFP Problems

LGfZ Geometry of position (Carnot)

LGG Geometry of transformation (Descriptive and projective geometry)

LGGA Projection. Projectivity

LGGB Central

LGGC Clinographic (oblique)

LGGD Two projections

LGGE Monge's orthographic

LGGF Orthogonal. Photogrammetry

See also LGHA

LGGG Axonometry

LGGH Transformation of projections

LGGI Orthogonal

LGGJ Oblique

LGGH	Special methods
LGGI	Parallelogram
LGGJ	Relief
LGGK	Stereoscopic
LGGL	Central with prime plane
LGGM	Figures with finite number of planes
LGGN	Trihedra
LGGO	Polyhedra
LGGP	Section of polyhedra
LGGQ	Theory of curves and surfaces
LGGR	Doctrine of curves
LGGS	Characteristics of algebraic curves
LGGT	Special curves
LGGU	Surfaces of the 2nd degree
LGGV	Warped
LGGVA	Skew hyperboloid
LGGVE	Orthogonal hyperboloid
LGGVI	Equilateral hyperboloid
LGGVO	Hyperbolic paraboloid
LGGVU	Equilateral hyperbolic paraboloid
LGGVY	Skew rotation hyperboloid
LGGW	Non-regular
LGGWE	Spherical
LGGWI	Spherical pencils
LGGWO	Dupin's cyclid
LGGX	Rotation
LGGXE	Spheroid
LGGXI	Paraboloid
LGGXO	Hyperboloid
LGGY	Triaxial
LGGZ	Warped of higher orders
LGGZA	Ruled of 3rd degree
LGGZE	Conoid
LGGZG	Normal
LGGZI	Vaulted
LGGZL	Coniesconoid
LGGZN	Spheric-conoid
LGGZO	Cylindroid
LGGZT	Revolution
LGGZU	Envelope
LGGZY	Helix and helicoid
LGH	Descriptive geometry
LGHA	Orthogonal projection
	<i>See also</i> LGADT
LGHB	Isometric

LGHC	Spherical projection. Map projection
	Methods (Arrange alphabetically)
LGHC	Conical
LGHD	Discontinuous
LGHE	Equivalent
LGHEM	Meridional
LGHC	Orthomorphic
LGHC	Parallelogrammatic
LGHCQ	Perspective
LGHC	Zenithal
	(Special forms) (Arrange alphabetically)
LGHDA	Arago's
LGHDC	Cassini's
LGHDE	Globular
LGHDL	Lagrange's
LGHDM	Mercator's
LGHDP	Polyconic
LGHDS	Stereographic
LGHE	Linear perspective
LGHF	Shades and shadows
LGHG	Point of illumination
LGHH	Problems
LGHI	Projective geometry
LGHJ	Primitive figure
LGHK	Infinitely distant element. Correlation
LGHL	Homology
LGHM	Homothetic figures
LGHN	Homological figures in space
LGHO	Affinity
LGHP	Correspondence
LGHQ	Chasles' principle and theorem
LGHR	Collineation
LGHS	Duality. Reciprocity
LGHT	Polar reciprocity
LGHU	Projective forms and relations
LGHV	Metrical relation
LGHW	Harmonic forms
LGHX	Anharmonic ratio (Cross ratio)
LGHY	Metric projective relation
LGHZ	Theorem of Pappus
LGJ	Involution
LGJA	Metrical relation
LGJE	Double element
LGJ	Elliptic involution
LGJ	Hyperbolic involution
LGJE	Theorems of Ceva, Carnot and Menelaus

LGIF	Conic sections treated projectively
LGIG	Curves, sheaves and cones of the 2nd order
LGII	Theorems of Pascal and Brianchon
LGII	Möbius' theorem
LGII	Maclaurin's theorem
LGIK	Theorem of Apollonius
LGIL	Concurrence
LGIM	Desargues' theorem
LGIN	Self-corresponding element. Double element
LGIO	Problems of the second degree
LGIP	Pole and polar on the conic
LGIQ	Diameter and middle point
LGIR	Reguli. Ruled surfaces <i>See also</i> LGOP, LGUO
LGIS	Quadric surfaces. Ruled quadric surfaces
LGIT	Twisted cubic
LGIU	Foci
LGIV	Axes and planes of symmetry
LGIW	Nets and webs of conics
LGIX	Problems

LGIV Application of algebra and analysis to geometry

LGIZ	Multiple algebra
LGIZB	Double algebra
LGIZC	Barycentric calculus (Möbius 1827)
LGIZD	Method of equipollences (Bellavitis 1837)
LGJ	Vector analysis (Quadrangle algebra)
LGJC	Vectors
LGJD	Quaternions <i>See also</i> LGJO
LGJE	Biquaternions
LGJF	Pluquaternions. Homoid product
LGJG	Quinions
LGJH	Nonians
LGJI	Directional calculus (Theory of extension; Space analysis; Extensive algebra; Ausdehnungslehre)
LGJJ	Theory of matrices
LGJK	Application to analytical geometry
LGJL	Application to physics
	Differential geometry (See LGV)

LGJM	Coordinate systems <i>See also</i> LGKC
LGJN	Parallel coordination
LGJNE	Point and plane coordinates
LGJNT	Translation of the system
LGJNO	Rotation of the system
LGJO	Tetrahedral and triangular coordinates
LGJP	Plücker's coordinates
LGJQ	Barycentric coordinates
LGJR	Spherical triangle coordinates
LGJS	Relation coordinates
LGJT	Polar and bi-polar coordinates
LGJU	Elliptic coordinates
LGJV	Hyperbolic coordinates
LGJW	Parabolic coordinates
LGJX	Circle and lemniscate coordinates
LGJY	Elementary geometry treated algebraically
LGJZ	Graphic methods
LGJZP	Problems
LGK	Algebraic geometry (Analytical geometry; Coordinate geometry)
LGKA	Analytical geometry of the plane (General works)
LGKB	Analytical geometry of space (General works)
LGKC	Coordinates <i>See also</i> LGJM
LGKCA	Transformation of coordinates
LGKD	Loci
LGKE	Equation of the 1st degree (the right line)
LGKEL	Rectilinear system
LGKEN	Polar system
LGKF	General theory of curves
LGKG	Curvature
LGKH	Middle point
LGKI	Osculating curves
LGKJ	Systems of curves

L _{GKK}	Plane curves
L _{GKL}	Curves of the 2nd order (Conics ; Conic sections)
L _{GKM}	Ellipse
L _{GKN}	Parabola
L _{GKO}	Hyperbola
L _{GKP}	Diameter and middle point
L _{GKQ}	Axis
L _{GKR}	Metrical properties
L _{GKS}	Projective properties <i>See also</i> L _{GHT}
L _{GKT}	Pascal's hexagram
L _{GKU}	Focal properties
L _{GKV}	Equations of the conic
L _{GKX}	Confocal conics
L _{GKY}	Bundle of conics
L _{GKZ}	Systems of two conics
L _{GL}	Algebraic plane curves
L _{GLA}	Singularities
L _{GLAA}	Plücker's formula
L _{GLB}	Equation of the curve
L _{GLC}	Polar curves
L _{GLD}	Covariant curves
L _{GLE}	Hessian
L _{GLF}	Steinerian
L _{GLE}	Cayleyan
L _{GLH}	Linear system
L _{GLI}	Bundles of curves
L _{GLJ}	Nets
L _{GLK}	Curve of three curves
L _{GLL}	Point groups
L _{GLM}	Adjoint curves
L _{GLN}	Theorem of residues
L _{GLP}	Hyperelliptic curves
L _{GLQ}	Birational transformation (Cremona transformation)
L _{GLR}	Reimann's theorem
L _{GLS}	Multiform (polytropic) transformation
L _{GLT}	Isogonal correspondence
L _{GLU}	Plane connex
L _{GM}	Plane curves of 3rd order (Cubic curves)
L _{GMA}	Covariant curves
L _{GMB}	Steiners polygon
L _{GMC}	Projective generation
L _{GMD}	Equation

LGME	Discriminants
LGMF	Special forms
LGMH	Plane curves of 4th order (Quartic curves)
LGMI	Hesse's generation
LGMJ	Equation
LGMK	Double tangents
LGML	Special forms
LGMN	General theory of surfaces
LGMO	Surfaces of the 2nd order (Quadric surfaces)
LGMP	Ellipsoid
LGMQ	Paraboloid
LGMR	Hyperboloid
LGMS	Projective generation
LGMT	Equation
LGMU	Metric properties
LGMV	Focal properties
LGMW	Rotation surfaces
LGMX	Cyclic planes. Umbilics
LGMY	Sheaves and nets
LGN	Algebraic surfaces and algebraic gauche (torsion or twisted) curves
LGNA	Developable warped surfaces
LGNB	Fundamental relations
LGNC	Analytical representation of twisted curves
LGNA	Cayley's monoid surface
LGND	Twisted curves of 3rd order
LGNE	Twisted curves of 4th order
LGNF	Twisted curves of 5th order
LNG	Singular points (Singularities) and twisted curves
LNGE	Deficiency
LNGF	Cayley's formula
LNGG	Curves on the hyperboloid
LNGH	Contact surfaces
LGNH	Polar surfaces. Covariant surfaces
LGNIE	Hessian and Steinerian
LGNI	Linear surface system
LGNIL	Bundles of surfaces and curves

LGNJ	Birational transformation
LGNJE	Homaloid surface
LGNK	Representation of a surface on the plane
LGNL	Gauche (skew) curves of various orders
LGNM	Curves on surfaces 2nd order (Spherical curves)
LGNME	Spherical conies
LGNMO	Conformal representation <i>See also</i> LGVX
LGNN	Curves of the 3rd order (Cubic skew curves)
LGNQ	Null-system
LGNP	Cubic ellipse
LGNQ	Cubic hyperbola
LGNR	Cubic parabolic hyperbola
LGNS	Cubic parabola
LGNT	Curves of the 4th order 1st species
LGNT	Spherical conic
LGNV	Curves of the 4th order 2nd species
LGNW	Theory of osculants
LGNX	Curves of the 5th order
LGNV	Curves of the 6th order
LGNZ	Rational skew curves (Unicursal curves)
LGO	Surfaces of the 3rd order (Cubic surfaces)
LGOA	Geometric generation
LGOB	Cayley's surface
LGOE	Sylvester's pentahedra
LGOE	Hessian surface (Fundamental surface)
LGOE	Clebsch diagonal surface
LGOE	Straight lines and surfaces of 3rd order
LGOE	Classification of real surfaces
LGOH	Plane representation (Other cubic surfaces)
LGOI	Surfaces of the 4th order (Quartic surfaces)
LGOJ	Double point surface
LGOJE	Kummer's
LGOJ	Cayley's tetrahedroid
LGOJO	Fresnel's wave
LGOJU	Fresnel's surface of elasticity
LGOK	Surfaces with infinity of conics
LGOI	Surfaces with double conics
LGOI	Surfaces with cuspidoidal conics
LGOI	Cyclids
LGOI	Double pointed
LGOI	Dupin's
LGOI	Pedal surfaces

L _{GOO}	Surfaces with double straight
L _{GOOS}	Steiner's (Roman surface)
L _{GOP}	Ruled surfaces <i>See also</i> L _{GIB} , L _{GUU}
L _{GOQ}	Skew ruled surfaces
L _{GOR}	Surfaces of higher orders
L _{GOS}	Surfaces of the 5th order
L _{GOSE}	Developable
L _{GOST}	Non-ruled
L _{GOSU}	Warped-ruled
L _{GOT}	Surfaces of the 6th order
L _{GOTU}	Osculating (Tangent)
L _{GOTV}	Developable
L _{GOW}	Developable surface of the 7th order
L _{GOX}	Ruled surfaces of any order
L _{GOY}	Line of striction
L _{GOZ}	Rational surfaces
L _{GP}	Special curves and surfaces
L _{GPA}	Inversion. Transformation (by reciprocal radii vectors)
L _{GPB}	Curves of the 3rd order
L _{GPC}	Rational
L _{GPD}	Circular. Spire
L _{GPE}	Cissoid of Diocles
L _{GPF}	Strophoid
L _{GPG}	Cartesian parabola
L _{GPH}	Folium Cartesii
L _{GPI}	Versiera. Visiera and Pseudoversiera
L _{GPJ}	Curves of the 4th order
L _{GPK}	Rational
L _{GPL}	Elliptic and bi-circular
L _{GPM}	Cardoid
L _{GPN}	Conchoid of Nicomedes
L _{GPO}	Pedal <i>See also</i> L _{GSF}
L _{GPP}	Cartesian oval
L _{GPEQ}	Limaçon of Pascal
L _{GPR}	Carrenian
L _{GPS}	Lemniscate
L _{GPT}	Gérone's lemniscate
L _{GPU}	Spire line of Perseus
L _{GPY}	Conchoid
L _{GQ}	Special algebraic curves higher than the 4th order
L _{GQA}	Curves derived from conics
L _{GQC}	Astroids
L _{GQE}	Glissetts
L _{GQG}	Watt's curve
L _{GQR}	Curves of the 6th and 8th orders
L _{GQK}	Curves of the 9th and 25th orders

LGQL	Special algebraic curves of any order
LGQM	Parabola
LGQN	Hyperbola
LGQO	Lame's curve (Triangular symmetric)
LGQP	Polyzomal
LGQQ	Darboux's
LGQR	Oval (Triangular curve)
LGQS	Multiplicatrix and Medatrix
LGQT	Latrix
LGQU	Polynoue
	Sinus spiral <i>See</i> LGRT
LGQV	Lissajous'

LGR Transcendental curves

LGRA	Quadratrix
LGRB	Spirals
LGRE	Archimedean (Conon's spiral)
LGRD	Spirals of higher degree
LGRDE	Hyperbolic
LGRDI	Cote's lituus
LGRE	Logarithmic
LGER	Clothoid (Barycentric curve)
LGRG	Cycloid. Hypocycloid
LGRH	Roulette
LGRI	Sinus spiral
LGRJ	Ribacour's
LGRK	Norwich spiral. Euler's curve
LGRLL	Trigonometric. Hypertrigonometric
LGRLS	Sinusoid
LGRM	Logarithmic. Hypergeometric
LGRN	Extraordinary curves
LGRNE	Weierstrass'
LGRNI	Boltzmann's H curve
LGRNW	W-curve
LGR0	Mercator's line. Sumner's line
LGRP	Traetrix
LGRQ	Catenary
LGRR	Plane elastic
LGRS	Poisson's spiral
LGRT	Curves of double curvature. (Twisted curves)
LGRU	Helix. Cylinder helix
LGRV	Loxodrome
	Bertrand's curve <i>See</i> LGVNB
LGGW	Spherical cyclic curves
LGRWE	Viviani's
LGRWI	Spherical cyclic lines
LGRX	Other physical-mathematical curves
LGRY	Weyr's electromagnetic
LGRZ	Magnetic

LGS Derived curves

LGSA	Curve of pursuit
LGSB	Parallel. Equidistant
LGS C	Radial
LGSD	Toroïdal
LGSE	Focal lines; Caustic curves
LGSF	Pedal. Anti-pedal
	<i>See also</i> LGPO

LGSQ	Differential and integral
LGSU	Derived curves of a curve group
LGSV	Hyper-arithmetic
LGSW	Hyper-harmonic
LGSX	Mean fibre
LGSY	Resultant
LGSZ	Sector
LGS1	Special surfaces
LGS2	Helicoid
LGS3	Caustic
LGS4	Parallel. Conchoid
LGS5	Rotation
LGS6	Cylindrical (Cylindroid)
LGS7	Spherical (Spheroid)
LGS8	Conoidal (Conoid)
LGSZ	Problems

LGT Geometry of the line and sphere in space

LGTA	Line coordinates
LGTB	Klein's coordinates
LGTC	Complex and congruence of lines
LGTD	Complex of the n-th degree
LGTE	Clebsch's theorem
LGTF	Symbolic representation
LGTG	Invariant forms
LGTH	Linear complexes
LGTI	Null-system
LGTJ	Sheaves and nets
LGTK	Klein's linear involution complex
LGTL	Complexes of the 2nd degree
LGTM	Confocal complexes
LGTN	Classification. Special cases
LGTO	Battaglini's complex (Harmonic complex)
LGTP	Reye's complex (Tetrahedral complex)
LGTR	Linear congruences <i>See also</i> LGWV
LGTS	Null-system of higher order,
LGTT	Focal planes
LGTU	Congruences of 1st order
LGTV	Congruences of 2nd order
LGTV	Congruences of 2nd order
LGTY	Spherical geometry (Spherics)
LGTZ	Problems

LGU Enumerative geometry (Denumerative geometry)

LGUA	Product of conditions
LGUB	Symbolic calculus of conditions
LGUC	Incidence formulae
LGUD	Coincidence formulae
LGUE	Chasles's correspondence formulae
LGUF	Method of characteristics
LGUG	Halphen's theorem
LGUH	Evaluation of characteristic numbers of a system

LGUI Geometry of n-dimensional space (Hyperspace)

See also LGAD, LGX

LGUJ	Homography of hyperspace
LGUK	Collineation. Correlation
LGUL	Reciprocity
LGUM	Parallel-linear manifoldness
LGUN	Non-linear manifoldness. Hyper-surface
LGUO	Monoidal representation
LGUP	Hyperquadratic figure
LGUQ	Hypercubic figure
LGUR	Surfaces of hyperspace
LGUS	Manifoldness of two dimensions
LGUU	Ruled surfaces
	<i>See also</i> LGR, LGR
LGUV	Veronese's surface
LGUX	Curves of hyperspace
LGUY	Clifford's theorem

LGV Differential geometry

See also LGXH

LGVA	Geometrical theory of differential equations
LGVB	Infinitesimal theory of curves and surfaces
LGVC	Tangents and normals; Asymptotes
LGVD	Tangential planes
LGVE	Concavity and convexity of plane curves; Inflection
LGVF	Curve arcs
LGVI	Quadrature
LGVI	Complanation
LGVI	Cubature
LGVK	Contents in non-Euclidean geometry
LGVL	Curvature of plane and skew curves
LGVM	Torsion
LGVN	Natural equation
LGVNB	Bertrand's curve
LGVO	Contact
LGVP	Osculation. Osculating circle
LGVQ	Envelopes
LGVR	Polar and rectifiable developable
LGVS	Trajectories
LGVT	Filar evolutes and involutes
LGVU	Curvilinear coordinates
LGVUE	Parameter lines. Differential parameter
LGVI	Isothermal system. Isothermal lines
LGVV	Conformal representation
LGVW	Geodetic representation
LGVX	Projective representation
LGVY	Spherical representation (Gauss) (Other representations)
LGW	Lines of curvature. Curves on surfaces
LGWA	Moulding surface (Monge)
LGWB	Radius of curvature
LGWC	Asymptotic lines (Inflection curves. Chief tangent curves)
LGWD	Geodetic curvature
LGWE	Geodetic lines (Geodesic lines)
LGWF	Geodetic torsion
LGWG	Geodetic line of ellipsoids
LGWI	Theorems
LGWI	Surfaces of curvature
LGWIA	Representation and development
LGWI	Isometry of surfaces

LGWL	Isometric subgroups
LGWLL	Developable
LGWR	Surfaces with constant total curvature
LGWL	Pseudospherical <i>See also</i> LGDX
LGWM	Pseudospherical rotation
LGWN	Surfaces with constant mean curvature
LGWNE	Unduloid, Noid
LGWNI	Minimal (Elassoid)
LGWNT	Translation (Scherk's translation surface)
LGWO	Complete isometric groups
LGWP	Infinitesimal isometry
LGWQ	Geometrical models, etc.
LGWR	Surfaces of evolution
LGWS	Goursat's
LGWSW	Weingarten's
LGWT	Tubular
LGWU	Three-fold orthogonal surface system
LGWV	Line congruence <i>See also</i> LGRR
LGWVA	Mass density of the congruence
LGWVC	Congruence of rays
LGWVS	Normal congruence
LGWW	Approximate integration of differential equations
LGWZ	Contact transformation
LGX	Infinitesimal geometry in space of n-dimensions (Natural Geometry. "Geometria intrinseca") <i>See also</i> LGUI
LGXC	Linear hyperspace
LGXD	Curves
LGXE	Roulette
LGXF	Twisted
LGXG	Barycentric analysis
LGXH	Differential geometry <i>See also</i> LGV
LGXI	Line elements of any manifoldness
LGXJ	Quadratic differential forms
LGXK	Transformation
LGXL	Hyperspace of constant curvature
LGXM	Infinitesimal deformation
LGXN	Beez's theorem
LGXO	Riemann's curvature of a space
LGXP	Space of constant Riemann curvature
LGXS	Curvature of the manifoldness
LGXU	Other concepts and theorems
LGXY	Surfaces in space of constant Riemann curvature
LGXZ	Problems

LGY Absolute geometry (Non-Euclidean geometry; Metageometry; Pangeometry; Imaginary geometry)

See also LGA

LGYA Euclid's postulate V (Postulate of parallels)
LGYC Hyperbolic geometry (Lobatchevski)
LGYE Parabolic geometry (Euclidean)
LGVG Elliptical geometry (Riemann)
LGYI Metric relations in projective form
LGYK Cayley's absolute figure
LGVN Projective metrics
LGV0 Projective interpretation of the three geometrics
LGYR Beltrami's representation
LGYS Axiom system of geometry
LGYT Connection
LGYU Arrangement
LGYV Parallels
LGYX Congruences
LGVY Continuity (Axiom of Archimedes)

LGZ Kinematics. Motion

Kinematics will be fully treated in Physics. Since, however, some may prefer to follow the arrangement in the Sixth Classification, the following general subdivisions are given here:

LGZA Kinematics of a point
LGZB Velocity
LGZD Limited motion
LGZE Translation
LGZG Rotation
LGZI Torsion
LGZK Continuous motion
LGZL Accelerated
LGZN Circulatory
LGZF Simple harmonic
LGZR Oscillatory. Wave
LGZT Kinematics of a plane figure in its own plane
LGZV Kinematics of a rigid figure
LGZX Kinematics of a deformable figure
LGZZ Kinematic mechanism

PHYSICS

(Including Mechanics and Kinematics)

Classification made by Mr. Richard Bliss, Librarian of the Redwood Library, Newport, R. I.

SYNOPSIS

General and theoretical questions LHAK

Kinetic theory of matter LHB

Physical units and measurements LHD

Mechanics LHF

Rational mechanics LHE

Kinematics LHH

Applied mechanics LHO

Technical mechanics LHS

Analytical mechanics LHY

Dynamics of a particle, etc. LI

Statics LIA

Kinetics LIJ

Ballistics LIO

Dynamics of elastic solids LIR

Dynamics of fluids LIS

Hydrostatics LIÜ

Hydrokinetics LIV

Hydrauls LIW

Aerodynamics LIX

Acoustics LJ

Radiant energy (Optics) LK

Physical optics LKI

Spectroscopy LKX

Physiological optics LKZ

Thermics (Heat) LL

Thermodynamics LLP

Electricity LM

Electrostatics LMC

Electrokinetics LMK

Radioactivity LMR

Thermoelectricity LMU

Magnetism LN

Electromagnetism LNM

LH'2 Study

LH'4 History

LH'5 Dictionaries

LH'6 Tables (General)

For special tables look under the subject

LH7 Periodicals

LH8 Societies

LH9 Collections

LH General works

LHA Laboratories

With local list

LHAK General and theoretical questions

Books generally in LH

LHAL Aether

LHAM Matter. Structure and constitution

LHAN Molecules. Atoms. Electrons

LHAT Theories and hypotheses

LHAU Vortex-atom theory

LHAW Electro-magnetic theory

LHB Kinetic theory of matter

LHBA Heat equilibrium

LHBB Entropy. *See also* LLQ

LHBC Molecular motion. Molecular speed

LHBCI Intramolecular motion

LHBCK Molecular free path. Mean free path

LHBCM Maxwell's law and proof

LHBCF	Maxwell's second theory
LHBD	Molecular and atomic energy
LHBDS	Dissociation and disgregation
LHBE	Ideal and actual gases. <i>See also</i> LLNB
LHBEA	Law of perfect gases
LHBEC	Correction for theoretical law
LHBEI	Anomalies of vapor densities
LHBF	Direct properties of molecules
LHBFD	Dimensions and number
LHBFM	Molecular weights
LHBG	Viscosity. Internal friction. <i>See also</i> LIZC
LHBGP	Phenomena in rarefied gases
LHBGS	Theory of external friction
LHBGV	Transition to critical state
LHBH	Diffusion. Transpiration. <i>See also</i> LIZG
LHBI	Theories of diffusion
LHBN	Coefficient of diffusion and viscosity
LHBP	Capacity for heat. Heat conduction
LHBS	Absorption. Adsorption. <i>See also</i> LIZD
LHC	Special properties of matter
LHCA	Compressibility
	Elasticity. <i>See</i> LIRA. LISF. LIXF
	Viscosity. <i>See</i> LHBG. LIZB
	Friction. <i>See</i> LIMK. LIVTI. LISW
LHCE	Brownian movement. Pedesis
LHCK	Conservation of matter
LHCL	Physical laws
LHCM	Gravitation and Potential. <i>See also</i> LIB. LIE. LIF

LHCN	Work and energy. Energetics. <i>See also</i> LHVD. LLQ
LHCNA	Abstract dynamics
LHCNM	Mechanical and thermal energy Carnot's principle. <i>See</i> LLPH. LLQ
LHCO	Available energy
LHCP	Free energy
LHCR	Van't Hoff's osmotic principle
LHCS	Interfacial phenomena. Liquid films. <i>See also</i> LISK
LHCU	General mathematical theorems Vectors <i>See</i> LHGA. LHR

LHD Physical units

LHD.6	Tables of constants
LHDA	Standards. Standardizing bureaus With local list when necessary
LHDAC	Absolute system. C. G. S. system

LHDB Physical measurements. Weights and measures

LHDEM	Metric system. Better in Rc
LHDC	Other systems
LHDD	Manipulation
LHDDC	Calculation of results
LHDDL	Method of least squares
LHDDR	Ratio between units
LHDE	Measurement of space (Length and breadth) Or in RCA

LHDEA	Instruments
LHDEM	Methods
LDF	Measurement of angles. Or in RCC
LHDFA	Instruments
LHDG	Measurement of volume. Or in RCF
LHDGA	Instruments
LHDH	Measurement of mass and force. Weight. Or in RCF
LHDHA	Instruments
LHDHM	Methods
LHDHM.6	Correction tables
LHDK	Measurement of density. Or in RCC
LHDK.6	Specific gravity tables
LHDKA	Instruments
LHDL	Solids
LHDM	Liquids
LHDN	Gases
LHDO	Measurement of mean density of the earth. <i>See also</i> LY0
LHDP	Methods
LHDR	Measurement of intensity of gravity
LHDW	Measurement of time. Or in RCC
LHDWA	Instruments
LHDWM	Methods

LHDZ Physical paradoxes

LHE Mechanics

LHF Rational mechanics

LHFA General principles

LHFB	Philosophical
LHFC	Mathematical
LHFD	Mechanical and physical
LHFDC	Principle of continuity
LHFDF	Actio in distans. Field action. <i>See also</i> LIF
LHFF	Fundamental concepts
LHFG	Phoronomy (Phoronomics)
LHFGC	Space and time
LHFH	Special theories
LHFI	Statics
LHFJ	Dynamics. The dynamic system
LHFL	Pure kinetic theories
LHFLA	Elimination of force in kinetics. (W Thomson)
LHFLD	Kinetic theory of force. (J. J. Thomson)
LHFM	Hertzian mechanics
LHFN	Special principles
LHFO	Variation (Differential) principle
LHFP	Statics
LHFS	Dynamics
LHFT	Isoperimetric principle
LHFTF	Principle of least action. Fermat's law
LHFTH	Principle of varying action. Hamiltonian principle
LHFU	Integral principle
LHFUA	Vis viva (Active force)
LHFV	The virial and second law of Thermo dynamics. <i>See also</i> LHGK
LHG	Geometrical foundation of mechanics
LHGA	Vector system
LHGH	Elementary statics

LHGI	Analytical statics
LHGG	The virial. <i>See also</i> LHFUI
LHGM	Astatics (Neutral equilibrium) <i>See also</i> L JAN
LHGHL	Astatic equilibrium (equivalence)
LHGHS	Static axes (Siacci)
LHGR	Geometry of the mass
LHGS	Linear and quadratic moments
LHGV	Higher moments
LHH	Kinematics. <i>See also</i> LGZ
LHHA	Motion. <i>See also</i> LHYA
LHHD	Velocity
LHHI	Accelerated motion
LHHM	Moments
	Laws of motion. <i>See</i> LIJN
LHHR	Vectors. Vector quantities. <i>See also</i> LHGA
LHI	Kinematics of a point
LHIA	Rectilinear motion
LHIB	Velocity and acceleration
LHC	Special motions
LHID	Uniformly accelerated
LHIE	Periodic
	Simple harmonic. <i>See</i> LHJ
LHIG	Relative
LHIH	Motion of a piston
LHIJ	Curvilinear motion
LHIK	Velocity and acceleration
LHIL	Acceleration
LHIS	Composition of motion

LHIT	Motion of a projectile. <i>See also</i> LIO
LHIU	Uniform circular motion
LHIZ	Harmonic motion
LHJ	Simple. S. H. M.
LHJA	Amplitude. Phase. Epoch
LHJB	Acceleration
LHJC	Graphic representation
LHJE	Resolution and composition. Harmonic curve
LHJF	Composition of more than two motions
LHJG	S. H. M. in different directions
LHJK	Resisted
LHJL	Oscillatory. Waves. <i>See also</i> LIKL. LITS. LIWO. LJB
LHJM	Transverse and longitudinal vibration
LHJO	Reflexion
LHJP	Refraction
LHJR	Superposition of motions
LHJS	Vibration of a cord and membrane
LHJT	Interference
LHJV	Relative
LHJW	Moving axes
LHJX	Constrained motion of a particle
LHK	Uniplanar kinematics
LHL	Kinematics of a rigid figure
LHLA	Angular velocity and acceleration
LHLAS	Spin
LHLAT	Twist

LHLB	Rotation. Rotation and translation
LHLBA	Acceleration
LHLBC	Composition of rotations
LHL C	Rolling of curve on curve
LHLI	Motion of a rigid body about a fixed axis Motion of a top and gyroscope. <i>See</i> LIIOR. LINB. LINC
LHLM	S. H. M. of rotation
LHLN	Precessional rotation
LHLP	Plane motion
LHLQ	Special motions
LHLT	Crank motion
LHLU	Motion with more than two degrees of freedom
LHLV	Motion in space
LHM	Kinematics of a deformable figure
LHMA	Deformable framework. <i>See also</i> LHN F. LHUW
LHMB	Strain. Stress
LHMBJ	Analytical theory of strains
LHMBK	Composition of strains
LHMC	Stress
LHMD	Kinematics of fluids
LHME	Rotation. Vortex motion
LHMG	Vortical spin
LHMI	Irrotational motion
LHMJ	Flow and circulation
LHML	Tubes of flow
LHMN	Velocity system
LHMP	Stream lines and equipotential surfaces
LHMU	Conjugate functions. Screw motion

LHN	Kinematics of mechanism. <i>See also</i> LHU
LHNA	Several planes moving one on another
LHNE	Relative motion. Resultant motion
LHNF	Linkage. Linkwork
LHNI	Pantograph
LHNK	Flexible chain
LHNO	Kinematic chain
LHNT	Toothed wheels
LHNV	Kinematics of a variable system
LHNW	Non-Euclidean motion
LHO	Applied mechanics
LHOA	Mechanics of simple physical apparatus
LHOB	Pendulum. <i>See also</i> LIKF
LHOC	Construction
LHOE	Period of oscillation
LHOG	Pertubating influences
LHOI	Balance
LHOIC	Construction
LHOIH	Oscillation
LHOIW	Weighing, Errors, etc.
LHOJ	Experiments on terrestrial rotation
LHOK	Deviation of a falling body
LHOM	Pendulum motion and rotation of the earth
LHOMD	Disturbing influences
LHOP	Pendulum experiments
LHOR	Gyroscope experimnts
LHOS	Gilbert's barograph
LHOW	Mechanical powers
LHP	Physiological mechanics

LHPA	Kinematics
LHPB	Jointed links. Joints
LHPC	Laws of animal motion. <i>See also</i> LHPK. LHQA
LHPD	Dynamics
LHPE	Statics. Muscular statics
LHPG	Equilibrium
LHPK	Kinetics
LHPK	Vis viva and animal locomotion. <i>See also</i> LHPC
LHPL	Equation of motion
LHPM	Special kinetic problems
LHPN	Mechanics of movements of parts of the body
LHPO	Bones and muscles (Backbone, Jaws, Limbs)
LHPW	Breathing
LHQ	Mechanics of movement of the whole body
LHQA	Walking. Animal locomotion. <i>See also</i> LHPC
LHQD	Swimming. Aquatic locomotion
LHR	Mechanics of games and sports
LHRB	Ball Alphabetical sub-arrangement as:
LHRC	Baseball
LHRCP	Curve pitching
LHRD	Cricket
LHRG	Golf
LHRK	Billiards. Pool
LHRL	Friction
LHRM	Impact
LHRMC	Carom

LHRN	Boomerang
LHRS	Bicycle riding. <i>See also</i> LINE
LHRX	Miscellaneous problems
LHRY	Motion of a swing
LHS	Technical mechanics
LHSM	Strength of material. General works only. For special topics see Sc
LHST	Structural mechanics. General works only. See also LIG, SD and SE
LHT	Mechanics of machinery
LHU	Kinematics of machinery
LHUC	Motion of the surface of fluid Piston. <i>See</i> LHIH
LHUF	Motion of connected pieces
LHUG	Rolling contact. Wheels
LHUH	Sliding contact
LHUHL	Lateral (Skew-bevel wheels)
LHUHM	Circular (Grooved wheels)
LHUI	Direct (Toothed wheels)
LHUM	Coupling
LHUN	Wrapping contact (Belts, Chains, etc.) Link-work. <i>See</i> LHNH
LHUP	Eccentric
LHUR	Trains of mechanism
LHUS	Wheelwork
LHUV	Aggregate combination

LHUV A	Differential windlass
LHUV D	Differential screw
	Link motion. <i>See</i> L H N F
LHUV X	Parallel motion
LHV	Applied dynamics
LHVC	Deviating forces
LHVD	Machines of uniform velocity
LHVI	Deflecting forces. Governors
LHVM	Machines of varying velocity
LHVR	Fly wheel
LHW	Machines for special purposes. In most cases the books will go with the special subject
LHWA	Observing
LHWC	Copying and drawing
LHWG	Recording. Registering
LHWK	Working
LHWX	Applied energetics
LHXA	Prime movers
LHXE	Sources of energy. General works only
LHY	Analytical mechanics
LHYA	Geometrical theory of motion. <i>See also</i> L H H A
LHYB	Mechanics of a material point
LHYC	Mechanics of a system of points
LHYD	Work and energy. Kinetic and potential energy
LHYE	Application of differential equations
LHYG	Dynamical methods
LHYGA	Equation of work
LHYGC	Equation of motion

LHYJ	Equation of rotation
LHYL	Statics of a material system
LHYM	Statics and kinetics of fluids
LHYR	Equivalence of dynamical problems
LHYS	Cyclical systems
LHYU	Reciprocal relations
LHYX	Approximate methods
LHZ	General theorem of energy and a free rigid body
LHZA	Motion of translation
LHZA	Motion of rotation
LHZE	Rotation of a rigid solid
LHZO	Constrained motion. Oscillation
LHZR	Oscillation about a state of motion
LHZV	Motion of a system of bodies
LHZX	Mathematical treatment of n-body problem
LI	Dynamics of a particle and of a rigid body.
LIA	Statics
LIAE	Equilibrium
LIAI	Equilibrium of motion on a curve
LIAJ	Conical pendulums. <i>See also</i> LHOCT
LIAN	Neutral equilibrium (Astatics) <i>See also</i> LHGM
LIB	Attraction and potential
LIBA	Universal law of attraction. <i>See also</i> LIF
LIC	The potential
LICF	Of an attracting mass
LICG	Of a system of masses
LICK	Of a double sheet
LICL	Equipotential surfaces

LICT	Lines of force. Tubes of force
LICV	Field of force
LICW	Isodynamic surfaces. "Lines of slope"
LID	Theorems
LIDC	Attraction of a thin stratum
LIDK	Circular rings. Anchor rings
LIDL	Attraction of ellipsoids
LIDM	Attraction of various bodies (Rods, discs, etc.)
	Problem of two bodies <i>See</i> LUC
	Problem of three bodies. <i>See</i> LUD
LIDW	Problem of n-bodies
LIE	Gravity
LIEA	Center of mass (center of gravity)
LIEK	Determination of g
LIER	Variation in the value of g
LIES	Acceleration of g
LIEI	Determination method
LIF	General gravitation. <i>See also</i> LIBA
LIFA	Newton's law
LIFB	Negative density
LIFC	Actio in distans. <i>See also</i> LHFDF
LIFD	Determination of constants
LIFG	Experimental proofs of Newton's law
LIFGA	Relation to mass
LIFGD	Relation to distance
LIFGV	Relation to time
LIFI	Expansion of Newton's law for moving bodies
LIFJ	Expansion for infinitely large masses
LIFM	Mechanical explanation

LIFN	Aether streaming
LIFÖ	Aether vibrations
LIFP	Aether shock (impact)
LIFS	Relation to electromagnetic phenomena
LIFV	Determination of earth's density. <i>See</i> LHDO. LYO
LIG	Graphic statics
LIGA	Forces in the plane
LIGC	Graphic composition of velocities
LIGL	Reciprocal figures
LIGM	Application of the plane force system
LIGN	Graphic determination of center of mass
LIGP	Graphic determination of moments
LIGR	Central ellipse (nucleus)
LIGS	Forces in space
LIH	Fixed frame work
LIHA	Plane framed structures
LIHB	Determination of tension
LIHC	Framed structures in space
LIHD	Jointed system
LIHG	Determination of tension
LIHI	Support of frames
LIHK	Roof supports. Vaulting
LIHM	Statics of a flexible chain or cord (string)
LIHN	Ideal flexible chain
LIHNH	Heterogeneous chain
LIHO	Equilibrium
LIHP	Chain on a surface
LIHQ	Chain with one end free
LIHS	String under any forces

LIHU	String on a curve
LIJ	Kinetics of a particle or a rigid system
LIJA	Force
LIJB	Dynamical unit
LIJE	Concurring and non-concurring forces
	Mechanical powers. <i>See</i> LHOW
LIJM	Motion
LIJN	Laws of motion
	Rectilinear
LIJP	Parabolic
LIJFV	Projectile in vacuo
LIJR	Elliptic. Kepler's problem
	Accelerated
LIJV	Deflecting force. D'Alembert's principle
LIK	Constrained. Oscillation. <i>See also</i> LHJL. LHZO
LIK B	About a fixed axis
LIK C	About a state of motion
LIK E	Brachistochrone. Tautochrone
LIK F	Pendulum.
LIK G	Various kinds of constraint
LIK H	Small oscillations. Vibration
LIK L	Wave movement. <i>See also</i> LHJL. LITR.
	LIWP
LIK N	Vibration of a rod
LIK P	Vibration of a cord
LIK T	Transverse vibration in plates
LIK U	Figures of Chladni
LIK V	Dust figures. <i>See also</i> LISLB
LIK W	Compound vibration

LIXX	Motion of a body under no forces
LIL	Motion of a body under any force
LILH	Forced and free vibration
LILI	Precession and nutation. <i>See also</i> LSG. LSH
LILK	Motion in a resisting medium
LILQ	Motion of a system of bodies
LILW	Inertia
LILWA	Coefficient
LIM	Kinetic and potential energy. Work and energy
LIMA	Conservation of energy
LIMG	Graphic representation
LIMGI	Indicator diagram
LIMH	Virtual work
LIMK	Friction
LIML	Static
LIMP	Kinetic
LIMR	Friction of a fluid on a solid
LIMS	Rolling. Belting Internal. <i>See</i> LISW
LIMT	Kinetics of a rigid system
LIMW	Kinetic reaction
LIN	Rotating bodies. Rotation
LINA	Motion about a fixed point
LINAG	Governor
LINB	Gyroscope. <i>See also</i> LHOR
LINC	Top
LIND	Rotation and translation
LINE	Motion of a bicycle. <i>See also</i> LHRS
LINF	Motion under no forces

LINK	Moving axes
LINO	Rotating axes
LINP	Compound pendulum
LINR	Impulse. Impact
LINS	Of a sphere Billiard ball. <i>See</i> LHRK
LINT	Impulsive change of motion
LIO	Ballistics. <i>See also</i> UIPB
LIOA	Interior
LIOB	Methods of projection. <i>See also</i> UMR
LIOC	Muscular
LIOE	Elastic
LIOF	Compressed air. Pneumatic weapons
LIOG	Electric
LIOH	Chemical
LIOI	Explosives. <i>See also</i> UMGK
LIOJ	Thermodynamic and thermochemical principles
LIOJC	Combustion and temperature of gas
LIOJD	Specific volume and pressure
LIOK	Rapidity of powder combustion
LIO M	Dynamical problems
LIO MD	Detonation
LIO MF	Slow combustion
LIO ML	Recent experiments
LION	Strain on the gun
LIONA	Strength. Tension
LIONE	Rifling
LIONI	Recoil
LIO P	Measurement of gas pressures

LIOR	Static methods. Pressure gauges
LIOT	Dynamic methods
LIP	Exterior
LIPA	Air resistance
LIPB	Special ballistic problems
LIPD	Uniform deviation of projectile
LIFE	Influence of wind. (Windage)
LIPF	Influence of the earth's motion
LIPG	Influence of rotation of projectile
LIPH	Lateral deviation
LIPJ	Incidental deviation
LIPIM	Distribution of shrapnel shot
LIPK	Ricochet shot
LIPK	Penetration
LIPK.6	Penetration tables
L IPL	Armor plates
LIPP	Apparatus and methods of measurements
LIPQ	True angle of departure
LIPR	Velocity. Time of flight
LIPS	Special apparatus
L IPT	Photographic methods
LIPU	Other method
LIPV	Initial motions
LIPW	From removal of constraint
LIQ	Kinetics of a flexible chain or cord
LIQA	Motion of an inextensible chain
LIQD	Constrained motion
LIQV	Friction of a rope about a cylinder
LIQW	Flexible surfaces
LIQX	Motion of a membrane

LIR	Dynamics of elastic solids
LIRA	Elasticity
LIRC	Moduli
LIRC.6	Tables
LIRD	Constants
LIRE	Stress and strain
LIRF	Deformation
LIRG	Isotropy. Anisotropy
LIRK	Strain
LIRKA	Longitudinal. (Homogeneous)
LIRKL	Radial. (Non-homogeneous)
LIRKN	Small strains
LIRKR	Rotation and strain
LIRL	Shear. Shearing strain
LIRM	Stress
LIRMA	Shearing
LIRME	Virtual work
LIRN	Tension
	Surface. <i>See</i> LISH
	Electrical. <i>See</i> LMCI
LIRO	Resistance. Tensile strength
	Strength of material. <i>See</i> LHSM
LIRP	Traction
LIRQ	Torsion. Bending and twist. Flexure
LIRQA	Torsional strain and stress. Torque
LIRQI	Torsional rigidity
LIRQM	Flexure and torsion of wires
LIRQP	Various torsion problems
LIRR	Elastic vibration. Oscillation

LIRS	Wave motion in isotropic elastic bodies
LIRT	Elastic lag. Hysteresis. <i>See also</i> LMDW. LNDP
LIRV	Elastic fatigue in metals
LIRW	Impact of elastic solids
LIRWO	Oblique
LIRWR	Resilience
LIRX	Dynamics of an elastic wire
LIS	Dynamics of fluids. (Hydrodynamics. Aerodynamics)
LISA	Geometrical principles
LISB	Vector analysis
LISC	Kinematics and statics
LISD	Exchange effects in the fields
LISE	Molecular forces and effects
LISF	Molecular structure
LISFC	Fluid crystals
LISG	Elasticity. <i>See also</i> LIRA
LISH	Cohesive forces
LISI	Surface tension
LISIN	Induced forms. Plateau's experiment
LISJ	Lamellar condition
LISJF	Films. Soap-bubbles. <i>See also</i> LHCS
LISK	Cohesion figures
LISKB	Breath pictures. Voice figures. <i>See also</i>
	LIKV
LISL	Drop formation
LISLE	Emulsions
LISN	Floating matter
LISNC	Movement of camphor, stearine etc.

LISF	Surface viscosity. <i>See also</i> LIVT
LISFO	Oil on waves
LISQ	Capillarity
LISQG	In cylindrical tubes
LISQJ	In non-cylindrical tubes
LISQM	Between two plates
LISQN	Liquid pellicles
LISQR	Steam tension and capillarity
LISQV	Capillary constants and equivalents
LISR	Solubility
LISRA	Dissociated molecules in solutions. Ions. <i>See also</i>
	LMXD
LISRG	Solution in mixture of several fluids
LISRL	Supersaturation
LISRM	Mutual solution of fluids
LIST	Miscibility and immiscibility
LISTG	Spread of one fluid on another
LISTL	Lamination of fluids
LISU	Diffusion
LISUC	Colloids and crystalloids
LISUD	Dialysis. Diffusion analysis
LISUG	Saturation of sand by liquids and gases
LISV	Osmosis. Eudosmosis
LISW	Internal friction. <i>See also</i> LIVTI
LISX	Determination of coefficients
LISZ	Influence of temperature and pressure
LIT	Statics and kinetics of fluids. (Fluids and gases)
LITA	Density. Specific density. <i>See also</i> LIUA. LIXB
LITB	Pressure. <i>See also</i> LIUF. LIXH

LITF	Fluid motion. <i>See also</i> LIVB. LIZE
LITG	Vortex motion. <i>See also</i> LHME. LIZFV
LITI	Vortex lines and filaments
LITJ	Vortex tubes
LITM	Circular vortex
LITN	Plane vortex fields
LITO	Vibration of vortices
LITQ	Theorems on the system
LITR	Wave motion. Kinematics. <i>See also</i> LHJL. LIWP. LJB. LKCA
LITRA	Propagation
LITS	Particular kinds of waves
LITT	Standing oscillation. Standing wave
LITU	Special wave phenomena Seiches. <i>See</i> MGFCM "Tidal wave." Bore. <i>See</i> MGDK. MGFBF
LITV	Oscillation of a fluid sphere
LIU	Hydrostatics
LIUA	Density
LIUB	Determination
LIUC	Instruments
LIUD	Methods
LIUF	Pressure
LIUFP	Normal pressure on upper surface
LIUG	Transmission of pressure
LIUH	Measurement
LIUHE	Superficial
LIUHI	Interior
LIUI	Instruments

LIUJ Lateral pressure
 LIUK Tension
 Superficial. *See* LITH
 LIUL Equilibrium
 LIULM Mathematical theory
 LIULS Stable and unstable
 LIUM Floating bodies. Buoyancy
 LIUMO Oscillation
 LIUMS Heel produced by propeller
 LIUN Compressibility
 LIUN.6 Tables
 LIUP Investigations before Oerstedt
 LIUR Oerstedt's experiments
 LIUS Investigations since Oerstedt
 LIUW Thermic pressure coefficient

LIV Hydrokinetics

LIVA Hydrodynamic equations
 LIVB Movement of liquids. Fluid motion
 LIVBC Laminar
 LIVBD Turbulent
 LIVBE Stationary
 LIVBH Fluid rotating as a rigid body
 LIVBN Fluid friction
 LIVC Non-vortical motion
 LIVCD Stream lines. Lines of flow
 LIVCJ Jets and sinks
 LIVCR Discontinuous motion
 LIVCT Three dimensional motion
 LIVD Flow

LIVE	Through rigid tube
LIVF	Through elastic tube
LIVG	Velocity of flow
LIVH	Measurement of pressure
LIVJ	Efflux. Discharge. <i>See also</i> LIWL
LIVJE	Outflow. Energy of jet
LIVJO	Outflow of plastic material
LIVJP	Contact with other currents
LIVJT	Discharge openings
LIVJV	Ajutages
LIVJW	From capillary tubes
LIVK	Energy of waterfall
LIVL	Reaction. Recoil
LIVM	Impact
LIVMD	Of several streams
LIVN	Resistance
LIVNA	Surface cohesion. Surface friction
LIVNF	Frictional resistance in long tubes
LIVNL	Eddys
	Vortices. <i>See</i> LITG
	Wave motion. <i>See</i> LITR
LIVP	Motion of a rigid body in a incompressible fluid
LIVPA	Sphere
LIVPC	Cylinder
LIVPH	Hydrokinetic symmetry
LIVPS	Screw motion. Screw propeller
LIVPU	Pulsating spheres
LIVQ	Motion of vessels and other floating bodies
LIVR	Special problems

LIVRA	Motion in two dimensions
LIVS	Motion in three dimensions
LIVT	Viscous fluids. <i>See also</i> LISP
LIVTE	Equations of motion
LIVTI	Internal friction. <i>See also</i> LISW
LIVTS	Stationary motion
LIVTV	Variable and periodic motion
LIVTW	Motion in tubes and channels
LIW	Hydraulics. <i>See also</i> SL
LIW.6	Tables
LIWB	Flow in tubes and conductors with uniform sides
LIWC	Uniform flow
LIWE	Stationary flow
LIWF	Flow varying with time
LIWG	Ebb and flow at mouth
LIWJ	Flow in tubes and conductors with varying sides
LIWJE	Enlarging and narrowing tubes
LIWJH	Change in direction
LIWL	Outflow from vessels. <i>See also</i> LIVJ
LIWLS	Motion in self-emptying vessel
LIWM	Mouthpieces
LIWN	Overflow on a dam
LIWNA	As periodic efflux
LIWNI	Incomplete overflow
	Energy of the fall. <i>See</i> LIVK
LIWO	Oscillatory motion
LIWP	Waves (especially in water courses) <i>See also</i>
	LHJL. LITR
LIWPL	Swell. Underswell

LIWPR	Rollers. Breakers
LIWPY	Migratory
LIWQ	Oscillation in tubes and vessels
LIWQC	Ram-stroke
LIWS	Ground water motion
LIWSF	Through sand. Filters
LIWST	Flow varying with time
LIWU	Effect of water on a river bottom or sea bed.
LIWV	Hydraulic appliances
LIWX	Motors
LIWY	Pumps
LIX	Aerodynamics
LIXA	Statics. Aerostatics
LIXB	Density. Specific gravity
LIXC	Instruments and apparatus
LIXD	Methods of determining
LIXE	Density of particular gases
LIXF	Elasticity
LIXG	Equilibrium
LIXGB	Buoyancy and flotation.
LIXGE	Of a rotating gas
LIXH	Pressure. "Tension"
LIXI	Investigations before Regnault
LIXJ	Regnault's investigations
LIXK	Later observers
LIXL	Pressure under one-half atmosphere
LIXM	Under very high pressure
LIXO	Partial pressure
LIXP	Lateral pressure. Aerostatic paradox

LIXQ	Vapor pressure and curved surfaces
LIXR	Compression
LIXS	Compressibility of various gases
LIXT	Compressibility of mixed gases
LIXU	Compression machines
LIXV	Reduction of pressure. Vacua
LIXW	High vacua. "Fourth state of matter"
LIXX	Air pump
LIY	Temperature and pressure
LIYA	Heating by compression
LIYB	Cooling by expansion
LIYD	Critical pressure. Liquefaction of gases. <i>See</i> LLU
LIYDA	Absolute zero. <i>See</i> LLUA
LIYE	Atmospheric pressure
LIVEO	Oscillation of air masses
LIYF	Transmission of pressure
LIYI	Measurement of pressure
LIYK	Barometer
LIYP	Barograph
LIYR	Manometer
LIYW	Stereograph
LIZ	Kinetics. (Aerokinetics) Kinetic theory of gases. <i>See</i> LHB
LIZB	Kinetic energy
LIZC	Internal friction. Viscosity. <i>See also</i> LHBG
LIZCM	Of mixed gases
LIZCP	Influence of temperature and pressure
LIZD	Absorption. Solution. <i>See also</i> LHBS

LIRDA	By solids. Occlusion
LIZDE	By liquids. Solution
LIZDI	By gases. Associated gases
LIZDT	Adsorption
LIZE	Motion of gases
LIZF	Air in motion. Wind. For atmospheric circulation, see MCHN
LIZFI	“Internal work” (Langley) <i>See also</i> MCHN
LIZFV	Vortices. <i>See also</i> MCEA
LIZG	Diffusion. <i>See also</i> LHHB
LIZGE	Through solid bodies
LIZGI	Incandescent metal Through porous substances. <i>See</i> LIZH
LIZGO	Observations and experiments
LIZGT	Instruments and apparatus
LIZH	Transpiration
LIZHA	Through porous substances
LIZHE	Through membrane
LIZI	Effusion
LIZJ	Thrust and resistance. Recoil
LIZK	Resistance to air movement
LIZKA	By plane surfaces
LIZKE	By vaulted or curved surfaces
LIZL	Flow of gases
LIZLS	Streaming of gases and steam
LIZM	Flow through tubes and conductors
LIZN	Efflux
LIZNL	From small openings

LIZNR	Escape velocity
LIZO	Measurement of flow. Apparatus
LIZP	Movement of rigid bodies in gases
LIZQ	Resistance
LIZQS	Soaring
LIZR	Aeronautics. <i>See also Sz</i>
LIZS	Balloon. <i>See also SzB</i>
LIZT	Dynamic flight. Flying machines. Aero- dromics
LIZU	Aerodrome. Aeroplane. <i>See SzP</i>
LIZV	Dirigible air vessels
LIZY	Miscellaneous pneumatic apparatus
LIZYA	Air motor
	Air gun. <i>See LIOF</i>

LJ Acoustics (Sound)

LJA	Mathematical theory
LJB	Kinematics of vibration and wave motion. <i>See also LHJL</i>
LJBG	Graphic representation
LJBH	Reflexion and refraction
LJC	Propagation velocity of vibration. <i>See also LJE</i>
LJCA	Longitudinal
LJCD	Transverse
LJCI	In isotropic media
LJCN	In anisotropic media
LJD	Sound waves
LJDA	Amplitude. Wave length
LJDG	Displacement

LJE	Propagation of sound
LJF	Velocity
LJFC	In air and other gases
LJFE	Experimental determination
LJFH	Dependence on temperature
LJFJ	Propagation through fog
LJFL	In liquids
LJFM	Experimental determination
LJFS	In isotropic solids. <i>See also</i> LJCI
LJFT	Experimental determination
LJFV	Numerical values
LJG	Reflexion. Echo
LJGW	Whispering galleries. <i>See also</i> LJQR
LJH	Refraction
LJHA	By wind
LJHT	By varying temperature
LJI	Interference. Diffraction. <i>See also</i> LJSA
LJIG	Stationary waves
LJIK	Diffraction
LJIR	Damping by viscosity
LJIT	Acoustic transparency
LJJ	Vibrations
LJJA	Frequency and pitch
LJJB	Instruments for determining
LJJC	Siren
LJJM	Graphic method
LJJP	Stroboscopic method
LJJR	Manometric flames
LJJS	Lissajou's method

LJJU	Alteration of pitch by motion
LJJV	Limits of audibility
LJJW	Vibration in elastic solids
LJK	Resonance
LJKA	Resonators
LJKD	Analysis and synthesis of the Klang. <i>See also</i> LJTK
LJKL	Acoustic repulsion
LJKS	In isotropic elastic bodies
LJL	Analysis. Measurement of vibration
LJLA	Periodic curve. Harmonic curve
LJLC	Superposition of harmonies Musical sound. <i>See</i> LJT
LJM	Graphic representation. Vibroscopy
LJMA	Phonautograph
LJMC	Phonograph
LJMN	Pendulum apparatus
LJMO	Kaleidophone. <i>See also</i> LJRK
LJMP	Lissajou's figures
LJMQ	Vibroscope. Vibration apparatus
LJMR	Measurement of intensity of sound
LJMW	Analysis of compound vibrations
LJMX	Projection of compound vibrations
LJN	Vibration of stretched strings or wires
LJNH	Harmonies. Overtones
LJNI	Influence of elasticity
LJNL	Longitudinal vibration
LJNT	Transverse vibration. Mechanical investigations
LJNU	Propagation of transverse waves
LJNV	Reflexion of waves. Stationary waves

LJO	Vibration of rods
LJOA	Longitudinal
LJOF	Transverse
LJOK	Tuning fork
LJP	Vibration of plates (discs) and membranes
	Chladni's figures. <i>See</i> LIKU
LJPG	Bells and cylinders
LJPM	Membranes
LJQ	Vibration in pipes and other cavities
LJQA	Closed pipes
LJQD	Open pipes
LJQK	Organ pipes
LJQL	Reeds
LJQN	Tongued pipes
LJQO	Mouth instruments
LJQP	Other cavities
LJQR	Architectural acoustics. <i>See also</i> LJGW
LJQU	Velocity of sound
LJQX	Vibration of liquids in pipes
LJR	Vibrations maintained by heat
LJRC	Singing flames
LJRF	Flame figures
LJRK	Flame kaleidophone
LJRP	Radiophone
LJRS	Sensitive flames
LJRV	Sensitive water-jet
LJRW	Musical sand
	Relation to magnetism. <i>See</i> LNI
LJS	Superposition of waves

LJSA	Interference
LJSF	Pulsation. Beats
LJSI	Beats between harmonics (Overtones)
LJSM	Combination tones
LJSN	Self-combination (Beat tones)
LJSP	Differential combination
LJT	Physical basis of music. Sensations of tone.
LJTK	Klang
LJU	Tone color (Timbre. Quality)
LJUA	Without overtones
LJUD	With harmonic overtones
LJUG	With inharmonic overtones
LJV	Intervals
LJVC	Consonance and dissonance
LJVP	Standards of pitch
LJW	Physiological acoustics. Voice and ear
LJX	Tones of the voice. <i>See also</i> OCNA. QBEA
LJXH	Helmholtz's theory
LJY	Synthesis of the vowels
LJZ	The ear. Perception of sound. <i>See also</i> OCIV. QBSI Limits of audible tones. <i>See</i> LJVV
LJZF	The ear as a Fourier analyser

LK Radiant Energy (Optics. Light)

	Aether. <i>See</i> LHAL. LKBA
	Radiation. <i>See</i> LLJ (Caloric radiation) and LMNK (Electric radiation)
LKA	Theories of light. <i>See also</i> LKD

LKAB	Early views
LKAC	Emission
LKAD	Undulatory
LKAF	Fresnel's investigations and theories
LKAM	Mechanical theories
LKAN	Kelvin's contractile aether
LKAO	Later modification of early views
LKAP	Phenomenological treatment
LKB	Electromagnetic
LKBA	Theory of the aether. Free aether vacuum
LKBB	Hertz's theory
LKBC	Maxwell's theory
LKBD	Amplification of Maxwell's theory
LKBL	Blondlot's investigations
LKBP	Various results and theorems
LKBT	Relation to mechanics
LKC	Nature of light
LKCA	Oscillation. Vibration
LKCE	Analysis of white light
LKCL	Theory of damped vibrations
LKCP	Homogeneous radiation
LKCS	Methods of obtaining monochromatic rays
LKCT	Spectrum method
LKCU	Absorption method
LKCV	Multiple reflexion method
LKD	Analytical theory of light
LKDA	Kinematic
LKDG	Dynamic
LKE	Geometrical optics

LKFA	Optical representation
LKEF	Reflexion and refraction
LKER	Refractive indices. <i>See also</i> LKMT
LKES	Dispersion. <i>See also</i> LKV
LKEV	Laws of geometrical radiation
LF	Optical instruments
LKFA	Particular instruments
LKFB	Telescope. <i>See also</i> LYD
LKFC	Microscope. <i>See also</i> MBBC
LKFD	Other
LKFK	Appliances
LKFL	Lenses. <i>See also</i> LKMC
LKFS	Projection system and apparatus
LKFW	Illumination
LKFX	Illumination of the dark field
LKG	Measurement of radiant energy
LKGL	Light units
LKH	Photometric (Photometry) <i>See also</i> LWJ
LKHA	Photometer
LKHC	Polarizing photometer
LKHE	Interference photometer
LKHF	Spectrophotometer
LKHG	Chemical photometer
	Actinometric (Actinometry) <i>See</i> LWU
	Thermometric (Thermometry) <i>See</i> LLAC
	Thermoelectric. <i>See</i> LMUO
LKHN	Radiomicrometer
LKHP	Bolometer. <i>See also</i> LWM
LKHR	Radiometer

- LKHU Special methods
- LKHX Atmospheric actinometry
- LKI Physical optics
- LKIA Optical representation
Action of the eye. *See* LKZS
- LKIP Photographic objective
- LKIT Teleobjective
- LKJ Transformation of radiant energy. Emission. Radiation.
See also LLJ
- LKJA Luminescence. *See also* LMNM. LMQM
- LKJH Fluorescence. *See also* LMNK. LMP
Rontgen rays (X-rays) *See* LMPR
- LKJN N-rays
- LKJO Nieuglovski rays
- LKJP Phosphorescence. *See also* LMNL
- LKJQ Chemical action of radiant energy
- LKJS Photography. *See also* WR
Color photography. *See* LKOT
- LKJU Thermodynamics of radiation
- LKJX Black-body radiation. *See also* LLJH
- LKJY Pressure of radiant energy
- LKK Propagation. Velocity
- LKKA Methods and results
- LKKB In crystalline media
- LKKD In water
- LKKE In other media
- LKKH Velocity in moving bodies
- LKKJ Influence of the source
- LKKN Reflexion. Refraction and Absorption. *See also* LKL.
LKM. LKU

LKKO	In transparent media	
LKKP	In absorbing media	
LKKT	Passage of light through metal prisms	
LKKV	Selective reflexion and absorption	
LKL	Reflexion (Catoptrics)	
LKLA	From plane surfaces. Mirrors	
LKLM	From curved surfaces. Mirrors	
LKLO	Caustic surfaces. Caustics. Diacaustics	
	Spherical aberration. <i>See</i> LKMN	
LKLR	Metallic reflexion. <i>See also</i> LKUJ	
LKLT	Reflexion of electric rays	
LKLV	Experimental observations	
LKM	Refraction. Aberration	
LKMA	With plane surfaces	
LKMB	Prisms	
LKMBC	With curved surfaces	
LKMBS	With spherical surfaces	
LKMC	Lenses. Systems of lenses	
LKME	Representation by optical systems. Optotechnics	
LKMF	Fokometry (Focal distance)	
LKMG	Refraction of infra-red and ultra-violet rays	
LKMH	Of electric rays	
LKMJ	In strained media	
LKMN	Spherical aberration	
LKMO	Chromatic aberration	
LKMQ	Homocentric refraction. Anamorphosis	
LKMS	Selective refraction	
LKMT	Indices of refraction. <i>See also</i> LKER	
LKN	Coefficient of refraction	

LKNA	Measurement methods
LKNI	Metals
LKNJ	Mixtures
LKNK	Liquids
LKNL	Gases
LKNN	Numerical values
LKNO	Astronomical and terrestrial
LKNP	Theories
LKNR	Extinction of light in the atmosphere. Atmospheric absorption
LKNS	Scintillation of stars Color of the sky, rainbow, halo, etc. <i>See</i> MCN Polarization of the sky. <i>See</i> LKRN
LKO	Interference
LKOA	Observations and experiments
LKOB	Fresnel
LKOC	Young
LKOD	Other
LKOE	Spectroscopic analysis of light. <i>See also</i> LKX
LKOG	Interference fringes and bands
LKOI	By quartz threads
LKOJ	By isotropic plates
LKOK	Newton's rings
LKOP	Interference methods
LKOS	Interferential refraction
LKOT	Standing light-waves. Color photography
LKOU	Optical resonance
LKOW	Interference of invisible rays
LKP	Diffraction

LKPA	Screen phenomena. Apertures
LKPD	Diffraction gratings
LKPM	Through several openings
LKPN	Diffraction spectra
LKPP	Polarization of diffracted light
LKPT	Measurement of wave length
LKPU	Observations and experiments
LKQ	Double refraction. <i>See also</i> LKTH
LKQA	Anisotropic bodies. Crystals
LKQB	Accidental
LKQE	Theories and investigations
LKQN	Uniaxial crystals
LKQR	Biaxial crystals
LKQW	Conical refraction
LKQX	Determination of wave velocity
LKR	Polarized light. Polarization
LKRA	By reflection and refraction
LKRB	By emission, diffusion and diffraction
LKRD	By fluorescence
LKRK	Elliptic polarization
LKRL	Circular polarization
LKRM	Partially polarized light
LKRN	Atmospheric polarization
LKRP	Polarizing apparatus
LKRQ	Prisms
LKRS	Instruments
LKS	Interference of polarized light
LKSA	Observations and experiments
LKSC	With perpendicular rays

LKSD	With converging rays
LKSK	Chromatic polarization
LKT	Rotatory effects. Rotation of polarizing plane
LKTA	Photogyration. Photogyric substances
LKTB	Allogyric substances
LKTD	Isogyric substances
LKTJ	Rotatory dispersion
LKTM	Methods and results
LKTP	Rotatory polarization of liquids
LKTR	Magneto-gyration. <i>See also</i> LNJI
LKU	Absorption
LKUA	Theories
LKUAE	Electromagnetic
LKUC	Optical constants of metals
LKUG	Absorbing media
LKUH	Crystals
LKUI	Porous substances
LKUN	Absorption of various bodies
LKUP	Solids
LKUR	Liquids
LKUT	Gases and vapors
LKUW	Colored flames
LKV	Dispersion. <i>See also</i> LKES
LKVA	Theories
LKVF	In transparent media
LKVM	Metallic
LKVR	Anomalous dispersion
LKVS	Mechanical theory
LKVT	Electro-magnetic theory
LKVX	Observations and experiments

LKW	Color
LKW'6	Tables. Charts
LKWA	Notation. Nomenclature
LKWC	Sensations of color. Color perception. <i>See also</i> OCIT
LKWCH	Helmholtz's theory
LKWCY	Young's theory
	Color blindness. <i>See</i> QKEC
LKWE	Theories
LKWG	Experiments and determinations
LKWH	Colors of bodies
LKWM	Mixture of colors
LKWR	Achromasy
LKX	Spectroscopy
LKXB	Spectroscope
LKXC	Prisms
LKXD	Grating
LKXDD	Diffraction grating. <i>See also</i> LKPD
LKXE	Spectroscopes for special purposes
LKXF	Adjuncts. Appliances
LKXG	Other apparatus. Arrange alphabetically
LKXGA	Absorption
LKXGD	Diffraction
LKXH	Spectrophotography
LKXI	Apparatus
	Photometry. <i>See</i> LWJ
LKXX	Application of interference methods
LKXL	Interference apparatus
LKXM	Determination of wave length. Spectrometry
LKXM'6	Tables

LKXN	Wave apparatus. Spectrometer
LKXO	Change of wave length
LKXOA	By pressure
LKXOE	By motion in line of sight
LKXR	Nature and structure of the spectrum
LKXS	Emission spectra
LKXT	Continuous spectra
LKXU	Discontinuous spectra
LKXV	Absorption spectra
LKXW	Plurality of spectra
LKY	Production of spectra
LKYA	Flame
LKYB	Electric spectra
LKYF	Heat spectra
LKYG	Luminescence. Vacuum tube spectra
LKYH	Photoluminescence
LKYI	Fluorescent spectra. Fluoroscope
LKYIP	Phosphorescent spectra. Phosphoroscope
LKYJ	Absorption spectra
LKYK	Gases
LKYL	Metalloids
LKYM	Metals
LKYMC	Metallic compounds
LKYO	Organic compounds
LKYP	Other substances
LKVQ	Series of lines in the spectrum
LKVQA	Observations and experiments
LKVQZ	Zeeman effect. <i>See also</i> LNJU
LKYR	Methods of measurement and observation

LKYS	Visible spectrum
LKYT	Invisible spectrum
LKYU	Infra-red. <i>See also</i> LLJK
LKYV	Ultra-violet
LKYW	Dependence of the spectrum on Density, etc.
LKYWC	Effect of pressure
LKYWG	Influence of temperature
LKYWP	Absorption of light
LKYX	Miscellaneous observations and theories
LKYXH	Measurement of motion
LKYXM	Microspectography
LKYXP	Application to physiology
LKYXT	Application to technology and industry
LKYV	Astronomical spectra The books will go in LW in most cases.
LKYZ	Atmospheric (Terrestrial) spectra
LKYZA	Aurorae
LKYZL	Lightning
LKYZM	Meteors

LKZ Physiological optics

LKZA	The eye. Optical system
LKZL	Anomalies. Dioptric faults. <i>See also</i> QK
LKZM	Chromatic aberration Color perception. <i>See</i> LKWC, OCTU
LKZP	Telescopic eye (in animals)
LKZS	Sight. Vision
LKZT	Orthoscopy

LKZW Astigmatism
LKZV Optical illusions

LL Thermics (Heat) Thermodynamics

LLA Temperature
LLAB Scales
 Calorimetry.. *See* LLFA
LLAC Thermometer. Thermometry
LLAD Thermoscope
LLAE Liquid
LLAG Gas
LLAH Thermometers for special purposes
LLAL Gravity thermometer
LLAM Methods for moderately high temperature
LLAN Electrical
LLAO Berthelot's refraction method.
LLAOE Bi-metallic expansion
LLAP Measurement of high temperature. Pyrometry
LLAQ Pyrometers
LLAR Methods
LLAW Measurement for very low temperature
LLAX Apparatus
LLAY Observations and methods
LLAZ Thermostat
LLB Expansion
LLC Solids
LLCE Coefficient
LLCE.6 Tables

LLCF	Methods of determination
LLCI	Measurement
LLCJ	Methods
LLCM	Expansion of metals
LLCR	Expansion of crystals
LLCU	Expansion of other solids
LLD	Liquids
LLDA	Coefficient
LLDA.6	Tables
LLDE	Volume expansion
LLDM	Mercury
LLDN	Water
LLDR	Aqueous solutions and mixtures
LLDT	Other liquids
LLDV	Liquids under high pressure
LLDY	Theoretical relations
LLE	Gases
LLEB	Methods and results
LLEC	Coefficient
LLED	Expansion and pressure
LLEF	Expansion for high pressure
LLEH	Tension
LLEJ	Influence of pressure. Relation to temperature

LLF Specific heat. Thermal capacity

LLFA	Measurement. Calorimetry
LLFB	Calorimetric
LLFC	Thermometric
LLFE	Electrical

LLFF	Other methods
LLFG	Correction
LLFI	Solids
LLFJ	Influence of temperature, density, etc
LLFK	Specific heat determinations
LLFL	Metals
LLFM	Alloys
LLFN	Liquids
LLFO	Influence of temperature, etc
LLFP	Specific heat determinations Water. <i>See</i> LLFR
LLFQ	Organic liquids
LLFR	Mixtures
LLFS	Solutions
LLFT	Specific heat of water
LLFU	Investigations and determinations
LLFV	Supercooled water
LLFW	Water at constant volume
LLFY	Thermal units
LLG	Gases and vapors
LLGA	Observations and experiments
LLGB	Under constant pressure
LLGE	At constant volume
LLGF	Methods
LLGG	Determination of k
LLGH	Ratio of specific heats
LLGI	Specific heat of steam
LLGJ	Gas and steam at high temperatures
LLGK	Atomic and molecular weights

LLGN	Specific heat relations
LLGN.6	Tables
LLGO	Internal work in solids and liquids
LLGV	Internal and external work in gases
LLGW	Internal work of expansion
LLGX	Experiments

LLH Transmission (Conduction and radiation)

LLI	Conduction. Conductivity
LLIA	Mathematical treatment
LLIB	Diffusivity
LLIC	Emissivity
LLID	Physical treatment. Conductive capacity
LLIG	Conduction in solids
LLIH	Metals
LLIH.6	Tables
LLIJ	Anisotropic bodies
LLIK	Wood
LLIL	Glass
LLIM	Crystals
LLIP	Conduction in liquids. Convection
LLIP.6	Tables
LLIQ	Methods and results
LLIR	Mixed liquids
LLIT	Particular liquids
LLIU	Conduction in gases

LLIU.6	Tables
LLIV	Methods and results
LLIX	Particular gases
LLIY	Mixed gases
LLJ	Radiation. Emission. <i>See also</i> LKJ
LLJA	Measuring instruments and method. <i>See also</i> LKG
LLJB	Identity of light and heat rays. Themochrosis
LLJD	Laws of cooling
LLJE	Recalescence. <i>See also</i> LMUJ
LLJG	Relation to temperature
LLJH	Black-body radiation. <i>See also</i> LKJX
LLJI	Radiation of not-absolutely-black bodies
LLJK	Infra-red spectro. <i>See also</i> LKYU
LLJM	Emission
LLJR	Absorption
LLJS	Solids
LLJT	Liquids
LLJU	Gases and vapors
LLJX	Theory of exchanges
LLK	Reflexion
LLKA	From metals
LLKH	From non-metallic surfaces
LLKI	Non-metallic bodies under strong absorption
LLKJ	Diffuse
LLKM	Refraction. Dispersion
LLKN	Observations and measurements
LLKO	Anomalous dispersion in infra-red spectrum
LLKP	Interference. Diffraction
LLKR	Double refraction. Polarization

LLKS	By reflexion
LLKT	By refraction
LLKU	On metallic gratings
LLKV	Resonance
LLKX	Interference and polarizing
LLKY	Rotation of polarizing plane
LLKZ	Electromagnetic rotation
LLM	Absorption. Diathermacy
LLMA	Intigral
LLMB	Solids
LLMD	Liquids
LLMG	Gases and vapors
LLMGA	Steam
LLMN	Spectral
LLMP	Photographic method
	Infra-red absorption spectra. <i>See</i> LLJR
LLMR	Absorption with thermopile
LLN	Mechanical theory of heat.
LLNA	Mathematical treatment
LLNT	Thermoelectricity
LLNV	Endothermic reaction
LLO	Mechanical equivalent of heat
LLOC	Conversion of heat into work
LLOH	Transformation of work into heat
LLOM	Indirect methods
LLON	Apparatus for determination of J
LLOP	Precise measurement of J
LLOQ	Specific heat method
LLOR	Method of friction in water

LL0S	Electric current
LL0V	Results of experiments

LLP Thermodynamics

LLPA	First law
LLPF	Le Chatelier-Braun principle
LLPG	Second law
LLPR	Heat engines
LLPS	Theory of cyclic transformation
LLPU	Principle of reversibility
LLPV	Absolute scale
LLQ	Entropy
LLQC	Irreversible processes
LLQD	Available energy
LLQE	Thermodynamic potential
LLQG	Thermodynamic motivity. Dissipation of energy
LLQH	Thermodynamic relations
LLQI	Thermodynamic surfaces, etc
LLQJ	Thermoelasticity
LLQK	Application of thermodynamics
LLQM	Thermodynamic change of phase
LLQQ	Phase equilibrium
	Thermodynamics of radiation. <i>See</i> LKJU
LLQV	Thermodynamics of galvanic elements
LLQW	Relation to principles of mechanics
LLQX	Thermodynamics and molecular physics
LLQZ	Geometrical representations

LLR Change of state. (Change of phase)

LLS	Solid and fluid state. Fusion. Solidification
LLSB	Melting and freezing points. Effect of pressure
LLSD	Latent heat of fusion
LLSF	Regelation
LLSI	Melting points of simple substances
LLSK	Physical mixtures
LLSKC	Cryohydrates. Cryohydric point
LLSL	Solidifying point of alloys
LLSQ	Production of cold by vaporization
LLSR	Freezing mixtures and apparatus
LLSS	Solutions
LLST	Theories and investigations
LLSV	Solubility and temperature, pressure, etc
LLSY	Solution heat of various substances
LLT	Liquid and gaseous state
LLTB	Boiling. Boiling point
LLTB.6	Tables
LLTBA	Relation to pressure
LLTBG	Influence of absorbed air
LLTBJ	Saline solutions
LLTC	Methods of determination. Embullimetry
LLTD	Vaporization. Vapor pressure
LLTE	Spheroidal state
LLTF	Measurement of pressure
LLTG	Determination of density
LLTH	Heat of vaporization

LLTP	Critical point
LLTS	Constants
LLTS.6	Tables
LLTX	Dissociation
LLTY	Distillation
LLU	Condensation (liquefaction) of gases
LLUA	Absolute zero
LLUB	Condensation nuclei
LLUC	Methods and results
LLUF	Liquefaction of particular substances. Arranged alphabetically as
LLUG	Air
LLUH	Carbon dioxide
LLUI	Hydrogen
LLUP	Condensation and vaporization of mixed fluids
LLUQ	Theories
LLUW	Particular mixtures
LLV	Saturated vapor. Steam. Hygrometry
LLVA	Tension
LLVB	Methods of determining Water vapor- <i>See</i> LLWA
LLVD	Solutions
LLVG	Mixed fluids
LLVM	Measurement of tension and specific volume
LLVP	Tension and specific volume of various substances
LLVQ	Inorganic bodies
LLVR	Organic bodies
LLVS	Specific volume and density
LLVU	Theoretical determination

LLVX	Experimental determination
LLW	Water vapor. Steam
LLWA	Steam pressure. Tension
LLWA.6	Tables
LLWC	Specific heat
LLWD	Density
LLWE	Methods and results
LLWH	Hygrometry
LLWI	Chemical method
LLWE	Dew-point method
LLX	Superheated vapor.
LLXA	Heat capacity
LLXC	Density. Tension. Thermic expansion
LLXG	Observations on various substances
LLXH	Oxygen
LLXI	Nitrogen
LLXJ	Air
LLXK	Hydrogen
LLXR	Formulas
LLXT	Critical temperature. Critical point
LLXW	Critical point of mixtures and solutions

LLY Energy changes into heat energy

LLYA	Sources of heat
LLYC	Combustion
LLYH	Heat values of fuels
LLYS	Solar energy. <i>See also</i> LXMD
LLYW	Animal heat. <i>See also</i> OCDV. QBV

LLZ Technical Thermodynamics.

Most of the books will go in R, S and T under their respective subjects

LLZA	Machines
LLZC	Caloric
LLZD	Steam-engine
LLZG	Gas-engine
LLZM	Compressed air engine
LLZR	Refrigerating

LM Electricity

Including Magnetism when both are treated of together

LM'4	History
LM'5	Dictionaries
LM'6	Tables.

Except when placed with the particular subjects

LM'7	Periodicals
LM'8	Societies
LM'9	Collections

LMA Theories of electricity

LMA B	Fluid
LMA G	Geometrical
LMA I	Mechanical
LMA L	Dynamical
LMA M	Dynamical including the dielectric
LMA R	Edlund's aether

LMAT	Election
LMAW	Special theories
LMAWC	Molecular
LMAWH	Hydrodynamic
LMAX	Vortex
LMAZ	Investigations and experiments

LMB **Electrical measurements.** *See also TFE*

LMBA	Electrical and magnetic units
LMBA.9	Tables
LMBD	Evaluation of the ohm
LMBE	Dimensions
LMBF	Measuring instruments
LMBG	Electroscope
LMBH	Electrometer
LMBI	Galvanometer
LMBJ	Electrodynamometer
LMBK	Voltmeter
LMBL	Wattmeter
LMBM	Other
LMBN	Accessories
LMBO	Methods of measurement

See also the special subjects. In smaller libraries all works on measurement should go here.

Resistance. *See* LMHA

Current. *See* LMG

LMBP Determination of E. M. F.

LMBQ Induction

LMBQA	Mutual induction
LMBQD	Self induction. Inductance
LMBR	Capacity
LMBS	Absolute measurement
LMBT	Comparison of capacity
LMBU	Specific inductive capacity
LMBV	Potentials
	Magnetic force. <i>See</i> LNCD

LMBW Apparatus and Machines

See also LMZ, LNZ. In smaller libraries, it will be best to put books of LMZ and LNZ here

LMBWA	Dealer's catalogues
LMBX	Electrostatic. <i>See also</i> LMZ
LMBY	Electrokinetic. Electromagnetic. <i>See also</i> LNZ. ODWE

LMBZ Laboratories

With local list

LMC Electrostatics

LMCA	Aether stress
LMCB	Tubes of flow. Vortex tubes
LMCE	Electrification
LMCF	Special sources of electrification
LMCG	Electrical field
LMCH	Lines of force. Tubes of force. <i>See also</i> LMCB
LMCI	Electrical stress. Tension
LMCJ	Potential

LMCJS	Equipotential surfaces
LMCK	Mathematical theory
LMCL	Special topics
LMCX	Electrokinematics. General works only
LMD	Dielectrics
LMDA	Cause of dielectric phenomena
LMDAP	Dielectric polarization
LMDB	Theories of Faraday and Maxwell
LMDE	Determination of constants
LMDF	Constants of solids
LMDF.6	Tables
LMDG	Glass
LMDH	Constants of crystals
LMDH.6	Tables
LMDI	Constants of liquids
LMDI.6	Tables
LMDJ	Organic
LMDK	Water
LMDM	Liquified gases
LMDO	Constants of gases
LMDO.6	Tables
LMDOA	Air
LMDF	Capacity. Electrical energy
LMDPI	Specific inductive capacity
LMDR	Conduction. <i>See also</i> LMH
LMDRI	Tension in insulators. Electrostriction
LMDS	Electrical absorption
LMDT	Phenomena of discharge. <i>See also</i> LMN

LMDW	Residual discharge. Hysteresis. <i>See also</i> LNDP
LME	Pyro and Piezo electricity
LMEA	Molecular theory
LMEF	Pyroelectricity. <i>See also</i> LEUA
LMEH	Results of observations
LMEI	Investigations on tourmaline
LMEJ	Other crystals
LMEP	Piezoelectricity. <i>See also</i> LEUK
LMEQ	Observations and measurements
LMET	Piezoelectrical crystals in the field

LMF Electric current. *See also* LMK

LMFA	Voltaic (Galvanic) cell. Voltaic element
LMFC	Determination of E. M. F.
LMFE	Electric batteries. <i>See also</i> LMz
LMFF	Linear current
LMFI	Surface leakage. Dissipation of charge
LMFK	Branching
LMFO	Surface current
LMFOC	In curved plates
LMFT	Tridimensional current
LMFU	Refraction
LMFX	Periodic (irregular) current
LMG	Current measurement. <i>See also</i> LMBO
LMGA	Instruments and methods
LMGB	Galvanometer
LMGE	Electrodynamometer
LMGH	Current weighing. Current balance

LMGM	Vibration apparatus
LMGT	Technical current meters
LMGV	Volameter method
LMGX	Other methods and apparatus
LMH	Electric conduction and resistance. <i>See also</i> LMDR
LMHA	Measurement of resistance
LMHB	Instruments. Description and details of construction only. For their use see LMHK
LMHC	Rheostat
LMHG	Wheatstone bridge
LMHJ	Resistances
LMHK	Methods
LMHL	Absolute measure
LMHM	Compensation methods
LMHN	Measurement of resistance
LMHS	Metallic conductors
LMHT	Electrolytes
LMHU	Dielectrics
LMHV	Internal resistance of cells
LMI	Conductivity and resistivity
LMIA	Standards of measure
LMIB	Pure metals
LMIB.6	Tables
LMIP	Alloys and amalgams
LMIQ	Alloys
LMIQ.6	Tables
LMIR	Amalgams
LMIR.6	Tables

LMIS	Relation to heat conductivity
LMIT	Other metallic and non-metallic conductors
LMIU	Metallic crystals
LMIV	Dielectrics
LMIW	Volume resistivity
LMIW.6	Tables
LMIX	Mass resistivity
LMIX.6	Tables
LMJ	Electrolytic conduction. <i>See also</i> LMX
LMJ.6	Tables of conductive equivalents
LMJA	Conductivity of aqueous solutions
LMJD	Theory of electrolytic dissociation
LMJL	Thermal phenomena
LMJS	Influence of pressure, light and magnetism
LMJW	In non-aqueous solutions
LMJX	In uniform material
LMJY	In liquified salts

LMK Electrokinetics. Electrodynamics

LMKA	Dynamical theory of the current
LMKB	Maxwell-Hertz theory
LMKC	Mutual action of currents
LMKD	Ponderomotive action of stationary current
LMKF	Induction. Inductance
LMKG	Theories
LMKI	Mutual induction

LMKIS	Eddy currents. Foucault's currents
LMKJ	Self induction. Inducrance
LMEN	Induction apparatus
LMKQ	Alternating currents
LMKT	Choke coils (Impedence coils)
LMKU	High frequency current
LMKV	Polyphase current
LMKW	Measurement
LMML	Passage of electricity through gases
LMLA	Mathematical theory
MMM	Ionization and electrizations. Ions. Electrons
LMMA	Ionic energy
LMMB	Recombination (<i>Molizerung</i>)
LMMC	By temperature
LMMI	By ion impact
LMML	By ultra-violet light
LMMN	Photo-electric effects
LMMR	By Rontgen (X) rays
LMMS	Secondary radiation
LMMT	By Becquerel rays
LMMU	Electrization
LMN	Electric currents in gases
LMNA	Dependent current
LMNF	Current in flame
LMNG	Independent current
LMNH	Convective discharge
LMNI	Brush
LMNJ	At low pressure. Glow

LMNJN	Striated discharge
LMNJV	High vacuum effects
LMNK	Cathode rays
LMNL	Phosphorescence
LMNM	Thermoluminescence
LMNN	Mechanical effects
LMNO	Disruptive discharge
LMNR	Influence of gas pressure, electrode material, etc
LMNT	Spontaneous discharge
LMNU	Mechanical effects
LMNV	Effects of light
LMNX	Electric (dust) figures
LMO	Migration of ions
LMOI	Ionic velocities
LMOF	Charge on the ions
LMOQ	In electrolytes
LMOR	In gases
LMOV	Separation of the ions
LMOW	Diffusion in non-ionized gases
LMOZ	Ionic radiation
LMP	Cathode rays
LMPA	In the electric field
LMPB	In the magnetic field
LMPE	In the air
LMPF	In other gases
LMPI	Dispersion. Secondary rays. <i>See also</i> LMMS. LMRM
LMPK	Transmission through solids. Leuward rays
LMPL	Reflexion

LMPP	Positive rays. (Canal rays. Goldstein rays)
LMPQ	Magnetic deflexion
LMPR	Rontgen rays (X-rays) <i>See also</i> THX
LMPS	Velocity
LMPT	Absorption
LMPV	Diffraction
LMPX	Scattering of the negative electrodes N-rays. <i>See</i> LKJN
LMQ	Forces on the ions
LMQA	Electric
LMQF	Contract
LMQD	Condensation nuclei. Drop formation
LMQE	E. M. F. by ionic diffusion
LMQF	Magnetic
LMQFI	Influence of the magnetic field
LMQG	Hall effect. <i>See also</i> LNXC
LMQH	Physical and chemical effects
LMQI	Thermal
LMQJ	Temperature of the ions
LMQL	Optical
LMQM	Electroluminescence
LMQN	Crookes-tube phenomena. <i>See also</i> LMNK
LMQNT	Influence of temperature, etc.
LMQO	Illumination of mixed gases
LMQP	Fluorescence
LMQR	Illumination of solids
LMQS	By cathode rays
LMQT	By positive rays
LMQW	Chemical

LMR Radioactivity

LMRA	Radioactive processes
LMRB	Theories, etc.
LMRC	Atomic constitution
LMRD	Atomic instability and disintegration
LMRG	Methods of measurement
LMRH	Becquerel's observations. Becquerel rays
LMRI	Alpha rays. <i>See also</i> LMSC et seq.
LMRIA	Velocity
LMRIJ	Scattering
LMRIN	Absorption
LMRJ	Beta rays. <i>See also</i> LMSC et seq.
LMRK	Gamma rays. <i>See also</i> LMSC et seq.
LMRM	Secondary rays. <i>See also</i> LMMS. LMPI
LMRN	Terrestrial radioactivity
LMRNA	Atmosphere
LMRO	Earth
LMRP	Water
LMRR	Radioactive transformations. <i>See also</i> LMS
LMRS	Constants and measurements
LMRT	Rayless transformation
LMRV	Inactive products
LMS	Radioactive substances
LMSB	Radium
LMSC	Rays (Alpha, Beta, Gamma rays)
LMSCA	Alpha particles
LMSD	Transformation products

LMS E	Emanation
LMS F	Active deposit. (Radium A, B, etc.)
LMS G	Rayless transformation
LMS H	Helium
LMS HR	Radiolcad
LMS HV	“ <i>Radiobes</i> ”
LMS I	Origin (“parent”) of radium
LMS J	Thorium
LMS K	Rays
LMS L	Transformation products
LMS M	Radiothorium
LMS N	Ionium
LMS O	Uranium
LMS P	Rays
LMS PC	Connection with radium
LMS Q	Transformation products
LMS R	Actinum. Emanium
LMS S	Rays
LMS T	Transformation products
LMS U	Polonium
LMS V	Ray
LMS VC	Connection with radium F
LMS Z	Radioactive substances
LMS ZC	Clevite
LMS ZP	Pitchblende

LMT Atmospheric electricity. *See also* MCM

LMT A	Electrical potential
LMT B	Daily and yearly variation

LMTC	Variation in the upper air
LMTD	Measuring instruments and methods
LMTE	Electric conductivity
LMTF	Daily and yearly conduction
LMTH	Ionization of the air. Atmospheric electrization. <i>See also</i> MCEI
LMTI	Measuring instruments and methods
LMTN	Current electricity in the air
LMTF	Precipitation. Thunderstorms. <i>See also</i> MCIV. MCLP
LMTQ	Photography of discharge Aurora. <i>See</i> L,NLP. LXQI

LMU Thermoelectricity

LMUA	Thermocurrent. Thermoelectric junction
LMUB	Volta effect
LMUC	Seebeck effect Peltier effect
LMUE	Thermo element of E. M. F.
LMUF	Measurement
LMUG	Thermoelectromotive force
LMUH	Hysteresis
LMUI	Temperature variations
LMUJ	Recalescence. <i>See also</i> LLJE
LMUK	Liquid metals
LMUN	Thermoelectric formulas
LMUP	Peltier effect
LMUR	Thomson effect
LMUS	Thomson's thermodynamic theory
LMUT	Tait's hypothesis

LMUY	King's experiments
LMV	Special problems and experiments
LMVC	Conduction and convection theories
LMVG	Thermoelectric relations
LMVH	Application to temperature measurements
LMVHA	Thermopile
LMVM	Heating action from resistance
LMVN	Application of voltaic heat production

LMVP Theory of the voltaic (galvanic) element

LMVQ	Thermodynamic theory
LMVR	Kinetic theory

LMVS Contact electrification

	Electrolytic solution. <i>See</i> LMJ, LMK
LMVX	Capillary electric methods
LMVY	Drop electrodes

LMW Voltaic (galvanic) polarization

LMWE	Methods of measurement
LMWP	Polarization by alternating current
LMWS	Influence on friction and tension

LMX Electrolysis

LMX.6	Tables of conductive equivalents
LMXB	Theories of electrolytic action
LMXD	Electrolytic dissociation and ion migration. <i>See also</i> LISRA

LMXK	Polarization
LMXL	Resistance of electrolytes
LMXN	Local action. Amalgamation
LMXP	Electrolysis of various substances
LMXR	Various phenomena
LMXS	Separation of metals Electro-deposition <i>See</i> RER
LMXT	Fog formation
LMXV	Nobili's rings. Guebhard's rings (Metallochromes)
LMXX	Movement phenomena in the electrodes

LMY Electrical endosmosis

LMYI	Theoretical explanation
LMYO	Various experiments and results
LMYP	Action of colloids
LMYQ	Electrostenolysis (Braun)

LMZ Accumulators (Condensers Storage batteries) *See also* TEV, TGT

LMZC	Chemical theory
LMZD	Particular types
LMZP	Local action
LMZQ	E. M. F.
LMZR	Charge and discharge

LN

Magnetism

LNA Magnets

	Natural. <i>See</i> LNFC
LNAB	Artificial
	Electromagnet. <i>See</i> LNMA
LNAM	Magnetic needle. <i>See also</i> LZL
LNAC	Poles. Directive force
LNAE	Mutual action of magnets
LNAH	Oscillation

LNB Magnetization

LNBA	Lines of force
LBNF	Fields
LNBN	Constitution of magnet and field
LNBO	Molecular magnets
LNBP	Various hypotheses
LNBR	Linear magnets. Magnetic filaments
LNBT	Exterior action

LNC Magnetic measurements

LNCA	Instruments and methods
LNCB	Magnetometer
LNC D	Measurement of magnetic force (Intensity)
LNCE	Horizontal component

LNCI	Vertical component
LNCM	Relative measurement of intensity and direction
LNCN	Comparison of terrestrial fields. With local list
LNCO	Measurement of permeability and susceptibility
LNCP	Measurement of magnetic field
LNCR	Magnetometer method
LNCS	Hydrostatic method
LNCY	Optical method
	Measurement of induction. <i>See</i> LNDK

LND Magnetic induction

LNDA	Theoretical
LNDB	Application to particular bodies
LND D	Magnetic current and circuit
LND F	Molecular theory
LND J	Experimental
LND K	Methods and measurements
LND KD	Electrodynamic
LND KM	Electromagnetic
LND L	Magnetization and induction
LND M	Experiments with particular bodies
LND N	Particular phenomena
LND O	Screen action
LND P	Residual magnetism. Hysteresis, etc.
LND Q	Remanence
LND S	Theorems and formulae
LND W	Periodic phenomena

LNE Diamagnetism. Paramagnetism, etc.

LNEA	Theoretical treatment
LNEE	Physical and other theories
LNEF	Methods and apparatus
LNEG	Results
LNFI	Quantitative determination
LN EJ	Chemical relations
LN F	Paramagnetism. (Ferromagnetism. Sideromagnetism)
LNFA	Iron and steel
LNFC	Magnetite
LNFE	Nickel
LN FH	Magnetic alloys of non-magnetic constituents
LNFI	Cobalt
LNFL	Amalgams
LNFM	Crystal magnetism. Magne-crystallic action
LNFP	Ferromagnetic crystals
LNFR	Observations and measurements
LNFS	Fluid crystals

LN G Physical relations

LN H	To mechanics
LNHI	Magnetostriction
LN I	To sound
LNIA	Influence of vibration
LNIP	Propagation by magnetism
LNIT	Telephony
LNIU	Telephone. <i>See also</i> RYT. SNE
LNIX	Microphone
LNIV	Wireless telephony
LNJ	To light. Magneto-optics. <i>See also</i> LKB

LNJA	Passage of light through magnetic bodies
LNJC	Polarization
LNJI	Magnetic rotation. <i>See also</i> LKTR
LNJK	Determinations and measurements
LNJL	Magnetic action in emission and absorption
LNJM	Magnetic reflexion
LNJR	Magnetic double refraction
LNJU	Zeeman effect. <i>See also</i> LKYQZ
LNJV	Faraday effect
LNJW	Kerr effect
LNJX	Macluso-Corbin effect Hall effect. <i>See</i> LNXC
LNK	To heat. Thermomagnetism
LNKA	Influence of temperature
LNKB	High temperature
LNKD	Low temperature
LNKL	Heat effect of magnetization
LNKM	Methods of measurements
LNKP	Relation to various properties
LNKR	Chemical and thermal relations

LNL Terrestrial magnetism

LNLA	Measurement
LNLB	Instruments
LNLC	Methods
LNLD	Observatories With local list
LMLE	Magnetic surveys With local list

L.NLF	Magnetic elements
L.NLF.6	Tables
L.NLG	Local phenomena. Magnetic lines
L.NLGA	Isomagnetic
L.NLGD	Declination. (Isogons)
L.NLGF	Inclination. (Isoclines)
L.NLGI	Intensity. (Isodynamic lines)
L.NLGM	Lines of force and of magnetic equilibrium
L.NLH	Periodic phenomena
L.NLI	Diurnal inequality
L.NLJ	Annual inequality
L.NLK	Long-period inequality
L.NLL	Secular changes
L.NLM	Laws of magnetic disturbances
L.NLN	Magnetic storms. <i>See also</i> L.XMN
L.NLP	Polar light. <i>See also</i> L.XQI. MCMP
L.NLQ	Earth circuits
L.NLR	Physical theories and observations

LNM Electromagnetism

L.NMA	Electromagnets. <i>See</i> L.NZ for electromagnetic machinery
L.NMB	Construction
L.NMM	Forms
L.NN	Magnetic quantities
L.NN.6	Tables

Electromagnetic units. *See* LMBA

LNO	Magnetism by electric current
LNOC	Circular magnetization
LNOI	Magnetization of iron
LNOJ	Other substances
LNP	Action of the current on magnet
LNPF	Magnetic field and potential
LNPR	Circuit action
LNQ	Equivalence between current and magnet
LNR	Action of magnet on electric current
LNRF	Action of field on conductor
LNRP	Deformation by electromagnetic action
LNS	Electromagnetic induction. (Voltaic induction)
LNSE	Earth inductor
LNSP	Foucault's currents
LNT	Transference of electromagnetic energy
LNTD	Displacement currents
LNTE	Electric oscillations. Electric waves
LNTG	Propagation. Transmission
LNTL	Reflexion
LNTM	Refraction
LNTN	Polarization
LNTO	Dispersion. Scattering
LNTS	Syntony. Resonance
LNU	Oscillation of small wave-length

- LNVA Hertz's experiments
- LNVE Radiation. Direction of vibration
- LNUE Detection of oscillation. Resonator. Receiver
- LNUG Coherer. Detector
- LNUI Wireless telegraphy. *See also* SND
- LVN Electromagnetic theory of light. *Better in* LKB
- LNVW Electromagnetic rotation and vibration
- LNWA Magnet about a current
- LNWC Current about a magnet
- LNWF Fluid rotations
- LNWI Interruption and vibration apparatus
- LVNX Hall and allied phenomena
- LVNXA Transverse effect
- LVNXB Galvano-magnetic effect
- LVNXC Hall effect
- LVNXD Law of the Hall effect
- LVNXH Ettinghausen effect
- LVNXH Thermometric effect
- LVNXI Nernst effect
- LVNXJ Leduc effect
- LVNXL Longitudinal effect. *See also* LVNXB. LVNXH
- LVNXN Reverse effects
- LVNXP E. M. F. of magnetization
- LVNXR Influence of magnetization on thermoelectricity
- LVNXT Theories on the Hall group of phenomena
- LVNZ Electromagnetic machinery. *See also* TED

LNZA	Simple machines
LNZD	Dynamo-electric machines
LNZE	Conduction and current division
LNZF	High-tension current
LNZG	Unipolar machines
LNZH	Continuous current machines
LNZI	Alternating current machines
LNZJ	Motors
LNZK	Continuous current
LNZL	Synchronous
LNZM	Asynchronous
LNZP	Transformers (Converters) etc.
LNZPB	Rotary
LNZPC	Continuous current
LNZPH	Polyphase
LNZPL	Alternating current
LNZPQ	Constant potential
LNZS	Motor generator
LNZT	Dynamometer
LNZV	Regulators. <i>See also TEL</i>
LNZW	Rectifier
LNZX	Induction coil

ASTRONOMY

Classification made by Mr. Richard Bliss, librarian of the Redwood Library, Newport, R. I. I have made slight changes and fitted a notation. C. A. C.

SYNOPSIS

Generals Lr 1-9

History of astronomy Lr 11-99 *or* Lra

Cosmogony Lry

Spherical astronomy Ls

Theoretical astronomy Lt

Celestial mechanics Lu

Practical astronomy Lv

Astrophysics Lw

Applied astronomy, Geodesy Ly

Nautical astronomy Lz

History. *See* LRA

LR 5 Dictionaries

LR 6 Tables (General)

For special tables look under the subject.

LR 7 Periodicals (including Annuals)

For calendars and almanacs see spherical astronomy Lsw.

LR 8 Societies

LR 9 Collections

LR General and Miscellaneous works

LRA History of Astronomy

May be arranged by the local list or by the following table.

LRB Astrology

LRC Prognostications

LRD Nativity and horoscope

LRE Natural astrology (Primitive astronomy)

LRF Empirical astronomy (Dawn of astronomy)

LRG China

LRI India

LRK Astronomy of the ancients

LRL Syria and Phenicia

LRM Arabia

LRN Babylonia and Chaldea

LRO Assyria

LRP Persia

LRQ Egypt

LRR The Pyramids (in their astronomical aspect)

LRS	Greece
LRT	School of Alexandria
LRU	Rome
LRV	Astronomy of the Middle Ages
LRW	Astronomy of the Renaissance
LRX	Modern Astronomy

LRY **Cosmogony**

LRYC	Cosmic evolution
LRYE	Nebula hypothesis
LRÿI	La Place's theory
LRYJ	Faye's theory
LRYK	Darwin's tidal reaction
LRYL	Lockyer's hypothesis
LRYN	End of the world
LRYO	Structure of the universe
LRYP	Herschel's theory
LRYR	Space and its temperature
LRYs	Age of the solar system
LRYT	Movement of the solar system in space
LRYU	Ethereal friction
LRYV	Astrognosy
LRYX	Magnitudes, situation, and distances of the stars
LRYÿ	Constellations
LRYZ	Star names

Ls **Spherical astronomy**

LSA	Coördinates
LSB	Conversion of coördinates
LSBE	Calculation of ephemerides
LSc	Refraction
LSc'6	Refraction tables
LSD	Aberration
LSE	Reduction to meridian
LSF	Reduction to apparent position
LSG	Precession, Precession of the equinoxes
LSH	Nutation
LSI	Parallax, and its calculation
LSI'6	Parallax tables
LSJ	Correction for elevation, Dip of horizon
LSK	Diameter and semi-diameter
LSL	Proper motion
LSL'6	Tables of proper motion
LSM	Diurnal arcs, Rising and setting
LSN	Altitude and azimuth
LSN'6	Azimuth tables, Azimuth constants

- Lso Declination and Right ascension
 LSP Celestial latitude and longitude
 Lsq Geocentric and Heliocentric position
 Lsq'6 Position tables
 LSR Polar elevation
 Lss Polar variation (Wandering of the pole)

LST Chronology, Time

LST-Lsz may be in Fc.

- LSU Determination of time
See also Practical astronomy, *Instruments*, Lvb
 LSV Equation of time

Lsw Calendars

i.e., Works about the Calendar

- LSWA Calendar and astronomical cycles
 LSWB Reformation of the calendar
 LSWI Century controversy
 LSWO General and perpetual calendars
 LSWU Ecclesiastical calendars
 LSWY Date of Easter

Lsx Calendars

i.e., Individual calendars arranged by years, as Lsx 1904, a calendar for 1904. If preferred calendars may be arranged by nations or countries with a sub-arrangement by years.

- LSY Ecclesiastical calendars
 Individual, arranged by years. This may be omitted, and all calendars arranged under the previous heading.
 LSZ Almanacs (Astronomical) and Ephemerides
 (general)
 Arranged by years.

LT Theoretical Astronomy

- LTA True and apparent motion
 LTB Heliocentric movement, Elliptic motion
 LTC Kepler's problem
 LTD Geocentric movement
 LTE Retrogradation
 LTF Theory of eclipses, transits, etc.
 LTFC Calculation of eclipses
 LTG Rotation of planets
 LTH Geometric problems connected with Rotation
 LTI Orbit determination
 LTJ Planets and satellites.
 LTJA Mercury
 LTJB Venus
 LTJC Earth
 LTJE Moon
 LTJF Mars

LTJJ	Satellites
LTJJO	Phobos
LTJJU	Daimos
LTJK	Planetoids (Minor planets)
	Arrange alphabetically by number and name as: 433 (Eros)
LTJL	Jupiter
LTJM	Satellites
	Arrange as in LXUL-LXUT
LTJN	Saturn
LTJO	Satellites
	Arrange as in LXVL-LXVZ.
LTJP	Uranus
LTJR	Satellites
	Arrange as in LXWO-LXWY
LTJS	Neptune
LTJT	Satellite
LTK	Comets
	Arrange chronologically as in <i>Astrophysics — Comets LXy</i> . e.g., LXTK 1858 F (Donati)
LTM	Binary stars
	Arrange by letter or number preceding the name of the constellation, as: λ Boötis, μ Ophiuchii, δ Ceti.
LTN	Path of Meteors and Shooting stars
LTO	Elements (Eccentricity, Inclination)
LTP	Planets and satellites
	Sub-arrange as before
LTQ	Comets
	Sub-arrange as before.
LTS	Binary stars
	Sub-arrange as before.
LTT	Variable stars
LTU	Discovery, numbering, and nomenclature
LTV	Tables and Ephemerides
LTW	Planets and satellites
	Arrange as in LXN.
LTX	Comets
LTY	[Other]
LTZ	Interpolation of formulæ
LU	Celestial mechanics
LUA	Laws of motion
LUB	Attraction, problems of
LUC	Problem of two bodies
LUD	Problem of three bodies
LUE	Attraction of spheroids
LUF	Perturbation, General

LUG	Gravitation
LUH	Kepler's laws
LUI	Tides
LUIB	Tidal friction
LUJ	Oscillations of the atmosphere
LUK	Mass and weight
LUL	Sun
LUM	Planets and satellites Sub-arrange as in L _{XX} .
LUN	Comets Sub-arrange as in L _{TK} .
LUO	Stars Sub-arrange as in L _{XD} .
LUP	Planetary movements
LUR	Satellites of Jupiter
LUS	Secular variation of orbit
LUT	Libration
LUTE	Planetary
LUTI	Lunar
LUU	Perturbation
LUUC	Planetary
LUUD	Tables
LUUL	Lunar
LUUP	Cometary
LUV	Inclination of axis
LUX	Obliquity of the ecliptic
LUY	Revolution of the apsides

Lv Practical astronomy

LVA Observatories

L _{VAC}	Construction
L _{VAM}	Mountain observatories Astrophysical observatories. <i>See</i> Astrophysics. [Individual observatories]

L _{VAO} or L _{VAT}	Description Arrange by name in one alphabet; or (better) by countries with alphabetical sub-arrangement, the U. S. in one alphabet, not separately by states.
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L _{VAR}	Reports and business matters Arrange as above. But see note after L _{VAS}
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L _{VAS}	Scientific publications Arrange as before. Complete sets and miscellaneous works Single works on a separate subject go under that subject. It is better to put the reports and publications in the same place as the description, <i>e.g.</i> L _{V83H} [date], Reports of the observatory of Harvard College L _{V83H} . A-Z Description and history. L _{V83HF} . Publications.
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LVB Instruments and observational methods

See also Astrophysics—Instruments LWE.

LVBA Instruments for measuring time

- LVBE Early methods
- LVBI Clepsydra
- LVBO Sun-dials, Gnomonics, Dialling
- LVBU Sciatheric telescope

LVC Clocks, Chronometers, Horology

- LVCA Astronomical clocks
- LVCE Chronograph
- LVCI Printing chronograph
- LVCO Chronometers, Watches
- LVCU Testing
- LVCV Telegraphic distribution of time

LVD Instruments for angular measurement

[Whole instruments]

- LVDA Telescope (general)
- LVDB Housing
- LVDC Mounting
- LVDD Altazimuth mounting
- LVDE Illumination
- LVDF Quadrant
- LVDG Mural circle
- LVDH Meridian circle (Transit circle)
- LVDI Transit instrument
- LVDJ Prime vertical instrument
- LVDK Reflecting telescope
- LVDL Refracting telescope
- LVDM Equatorial telescope
- LVDN Equatorial coudé (Sheep-shank telescope)
- LVDO Almucantar
- LVDP Zenith instrument (Zenith sector)
- LVDQ Solar altitude instrument
- LVDR Astrolabe
- LVDS Septant
- LVDT Artificial horizon

LVE Optical apparatus

- LVEC Lenses
 - Including construction
- LVED Objectives
- LVEE Eye-pieces
- LVEN Testing and adjustment
- LVEP Correcting device

LVER	Reflectors
LVES	Speculæ (Mirrors)
LVET	Mounting
LVF	Measuring apparatus
LVFA	Micrometer
LVFB	Circular
LVFC	Double-image (Prismatic)
LVFD	Square-bar
LVFE	Wire (Filar)
LVFH	Heliometer
LVFI	Position circle
LVFN	Compensating mechanism
LVFO	Siderostat
LVFR	Heliostat
LVFS	Coelostat
LVFU	Graduated circle
LVFV	Vernier
LVFY	Reading microscope
LVG	Accessory apparatus
LVGA	Focusing apparatus
LVGE	Floating collimator
LVGI	Dipleidoscope
LVGO	Oroheliograph
LVGU	Chronodeik
LVGY	Observing chair
LVH	Observational methods
LVHA	Visual
LVHB	Personal equation
LVHD	Photographic (Astro-photography)
LVHE	Photographic telescope
LVHF	Black's
LVHG	Bruce's
LVHH	Draper's
LVHI	Photo-heliograph
LVHL	Photo-transit circle
LVHO	Photo-chronograph
LVHU	Stereocomparator
LVHY	Commutator
LVHYE	Electric
LVHYP	Pneumatic
LVI	Observations (methods)
LVIA	Correction of observations
LVIE	Refraction
LVII	Aberration

- LVIO Parallax
 LVIU Dip of horizon
 LVIW Semi-diameter
 LVI'6 Correction tables
 LVJ Impending occurrences
 LVJÁ Solar Eclipse (Instruction, etc.)
 LVJE Lunar Eclipse (Instruction, etc.)
 LVJI Transits (Instruction, etc.)
 LVJO Opposition, Conjunction
 LVJU Comets
 LVJY Meteoric showers
 LVK **Observatory observations**
 Arrange as in Practical astronomy: *Observations*.
 LVL **Geographical coördinates**
 LVLE Latitude determination
 See also Applied astronomy: *Geodesy Lx*.
 LVLI Variation of latitude
 LVM Longitude determination
 LVMA Chronometric
 LVME Telegraphic and signal
 LVMI By eclipse
 LVMO By occultation
 LVMU By lunar coördinates
 LVMY By lunar distance
 LVN **Spherical coördinates (absolute and relative)**
 LVNA Sun
 LVNE Planets
 Sub-arrange if necessary as in LxN.
 LVNI Comets
 Sub-arrange if necessary as in LxY.
 LVNO Meteoric showers
 LVNR Radiants
 LVNT Trajectories
 LVNU Meteors, Shooting stars
 Arrange alphabetically, as Andromids LVNUA, Geminids
 LVNUG, Leonids LVNUL, Lyrids LVNUM, Orionids
 LVNUO, Perseids LVNUP.
 LVO Fixed stars
 LVP Star catalogues
 LVQ Astrographic charts, star-maps
 LVR Double and multiple stars (measurement,
 etc.)
 LVRB Binary stars
 Individual binaries, arranged by name, number, or
 letter, as: Capella, B 107, κ Pegasi.

LVRG	Star clusters
LVRN	Nebulæ
LVS	Transformation of coördinates
LVT	Rotation and figure
LVTS	Sun
LVTY	Planets
	Sub-arrange as in LXX
LVU	Diameter
LVUS	Sun
LVUY	Planets
	Sub-arrange as in LXX.
LVV	Eclipse, Transit, Occultation
LVVA	Eclipses
	Reports, etc.
LVVI	Sun
LVVO	Eclipse expeditions
LVVY	Moon
LVW	Transits
	Reports, etc.
LVWA	Transit expeditions
LVWE	Mercury
LVWI	Venus
LVWY	Jupiter's satellites
LVX	Occultations
LVY	Parallax determination
LVYA	Geometrical method
LVYE	Observational method
LVYI	Physical method
LVYO	Solar parallax
LVYU	Planetary parallax
	Arrange as in LXX.
LVYY	Stellar parallax
	Individual stars sub-arranged by name, letter, or number
LVZ	Star motion
LVZE	Proper motion
LVZO	Motion in line of sight (Radial motion, Radial velocity)
Lw	Astrophysics (Cosmical physics)
	Miscellaneous
LWA	Plurality and habitability of worlds
	Theoretical investigations
LWB	Radiation and temperature of the sun and gaseous bodies

- LWC Planetary atmosphere
Sub-arrange by planets if necessary.
- LWD Stellar densities
- LWE Physical investigations and instruments
- LWF Astrophysical observatories
- LWG Description
- LWH Reports
- LWI Publications (scientific)
- LWJ Photometry, Photometric observations
- LWK Photometric Apparatus
- LWL Photometer
- LWLA Abney's sector
- LWLD Dispersion
- LWLM Meridian
- LWLN Microspectral
- LWLP Photographic
- LWLQ Polarization
- LWLS Spectrophotometer
- LWLV Wedge
- LWLW Wheel
- LWM Bolometer
- LWN Polaroscope, Polarizing eye-piece
- LWO Spectroscopic analysis
This subject is also treated in Physics
- LWP Spectroscopic apparatus
- LWQ Spectroscope
- LWQE Grating
- LWQF Solar
- LWQG Eclipse
- LWQH Stellar
- LWQO Ocular
- LWR Telespectroscope
- LWS Spectrograph
- LWT Spectroheliograph
- LWU Actinometry, actinometric observations
- LWV Actinometric apparatus
- LWW Actinometer
- LWX Pyrheliometer
- LWY Photographic observations
- LX Stellar system, Sidereal system, fixed stars
- LXA Structure and distribution of stars
- LXB Physical observations
- LXBA Photometric
Arrange individual star observations by number, or number
and name, as in star catalogs.

LXBE	Photometric catalogs (Durchmusterung)
LXBI	Spectroscopic Arrange individual observations as above.
LXBO	Stellar spectra As β Lyrae, δ Cephei, Nova Aurigae, etc.
LXBU	Color and temperature
LXBY	Colored-star catalogs <i>See</i> LXIV.
LXC	Visibility
LXD	Incomplex stars Arrange individual star observations by name, or name and number, of the star.
LXE	Multiple stars Individual stars as above.
LXF	Double stars Individual stars as above.
LXFI	Invisible companions
LXG	Binary stars (Binary system) Individual binaries as above.
LXGB	Spectroscopic binaries
LXH	Variable stars
LXHA	Physical observations
LXHE	Theoretical discussions (origin, etc.)
LXHI	Periodic variables
LXHJ	Long-period variables (Omicron Ceti type)
LXHK	Short-period variables (Beta Persei type)
LXHL	Beta Lyræ type
LXHO	Irregular variables, New stars Arrange by name, letter, or number, as: τ Coronæ, Nova Persei (3.1901)
LXI	Star catalogs (Durchmusterung) General
LXIB	Binary
LXID	Double and multiple stars
LXIV	Variable Colored <i>See</i> LXBY.
LXJ	Ephemerides
LXK	Nebulæ
LXKA	Physical observations
LXKE	Annular nebulæ, Ring nebulæ
LXKI	Spiral nebulæ
LXKL	Diffused nebulæ
LXKN	Planetary nebulæ [Other forms]
LXKU	Catalogs
LXKY	Photographs and drawings
LXL	Star clusters
LXLA	Physical observations
LXLE	Galaxy (Milky Way)

LXLI	Individual clusters
	Arrange under the name of the constellation in which they are situated or by name when they have one as: Pleiades LXLIP, H 1119 Auriga LXLIH.
LXLO	Star cluster variables
LXLU	Catalogs
LXLY	Photographs and drawings
LXLZ	Solar system
LXM	Sun
LXMA	Solar physics
LXMB	Chemical and physical constitution
LXMC	Temperature, Fuel
LXMD	Actinometric observations
LXME	Surface phenomena, Atmosphere
LXMF	Eclipse observations
LXMG	Corona
LXMH	Chromosphere
LXMI	Prominences (Protuberances)
LXMJ	Reversing layer
LXMK	Photosphere
LXML	Sun-spots, Faculæ
LXMM	Frequency and heliographic position
LXMN	Sun-spots and magnetic phenomena
LXMO	Sun-spots and weather phenomena
LXMP	Photometric and Spectroscopic observations
LXMQ	Photometric
LXMR	Polarization
LXMS	Spectroscopic, Solar spectra
LXMT	Corona
LXMU	Chromosphere
LXMV	Reversing layer
LXMW	Photosphere
LXMX	Electric and other observations
LXMY	Photographs and drawings
LXN	Planets, Planetary system
LXNA	Constitution
LXNE	Photometric observations
	General: for individual planets see each name
LXNI	Spectroscopic observations
LXNU	Inner planets
LXNY	Possible intra-Mercurian
LXO	Mercury
LXP	Venus
LXQ	Earth

LXQA	Terrestrial physics
LXQB	Figure (oblation, etc.)
LXQC	Density
LXQD	Nature of the interior
LXQE	Photometric observations
LXQI	Polar light
LXQK	Aurora borealis
LXQL	Aurora australis
LXQM	Magnetic phenomena
LXQN	Spectroscopic observations
LXQO	Atmospheric phenomena
LXQP	Scintillation of the stars
LXQR	Color of the sky
LXQS	Sunset and twilight phenomena
LXQU	Zodiacal light
LXQY	Counter glow (Gegenschien)

LXR Moon

LXRA	Physical observations (Selenography)
LXRB	Figure and constitution
LXRC	Lunar topography
LXRD	Spots
LXRE	Vulcanism [Other appearances]
LXRG	Illumination, Color
LXRH	Albedo
LXRI	Fulguration
LXRK	Temperature
LXRL	Spectroscopic observations
LXRM	Theoretical discussions
LXRN	Atmosphere
LXRO	Water
LXRP	Snow
LXRR	Cartographic work
LXRU	Photographs and drawings
LXRY	Nomenclature
LXRZ	Feigned discoveries, Hoaxes

LXs Mars

LXSA	Physical observations (Photometric and Spectroscopic)
LXSB	Figure and constitution
LXSC	Albedo
LXSD	Markings ("Canals")
LXSE	Atmosphere
LXSI	Satellites
LXSO	Phobos
LXSU	Daimos

LXT Minor planets (Planetoids, "Asteroids")

LXT Physical observations (photometric and spectroscopic)

Individual planetoids arranged alphabetically as:—Astraea
LXTA, Ceres LXTC, Eros (and its variation in light),
LXTE, Juno LXTJ, Pallas LXTP, Tercidina LXTT, Vesta
LXTV, etc.

LXTZ Outer planets

LXU Jupiter

LXUA Physical observations (Photometric and Spectroscopic)

LXUC Red spot

LXUI Satellites

Separately: I, Io LXUL, II, Europa LXUN, III, Ganymede
LXUP, IV, Callisto LXUR, V, LXUS, VI, LXUT.

LXV Saturn

LXVA Physical observations

LXVE Ring system

LXVF Pale ring

LXVG Eccentricity

LXVI Satellites

LXVL Mimas

LXVN Enceladus

LXVO Tethyo

LXVP Dione

LXVR Rhea

LXVT Titan

LXVU Hyperion

LXVY Iapetus

LXVZ Phoebe

LXW Uranus

LXWA Physical observations

LXWE Markings

LXWI Satellites

LXWO Ariel

LXWU Umbriel

LXWV Titania

LXWY Oberon

LXX Neptune

LXXA Physical observations

LXXI Satellite

LXXY Possible trans-Neptunian planet

LXY Comets

LXYA Figure and constitution

LXYE Physical observations (photo and spectroscopic)

LXYI	Cometary system, Periodic comets
LXY	Individual comets Arrange chronologically by year, letter, adding name of observer as: LXY 1230, LXY 1305, LXY 1826 (Bella), LXY 1858 (Donati), LXY 1889 (Brooks), LXY 1902b (Perrine), LXY 1902c (Griggs).
LXYU	Catalogs
LXYV	Photographs and drawings
LXZ	Meteors, Meteorites, Fire-balls
LXZA	Structure and composition
LXZE	Physical observations
LXZI	Unusual meteoric appearances
LXZO	Meteoritic dust (Cosmic dust)
LXZU	Individual meteors Arrange chronologically by observation, <i>i.e.</i> , year and day of the month.
LXZY	Meteorites These, being meteors that reach the earth, and become observable as hand specimens, may be relegated to Mineralogy if thought desirable.
LXZZ	Catalogs
LY	Applied astronomy, Geodesy
LY·6	Tables
LY·62	Conversion tables
LY·64	Correction tables
LY·66	Table of constants
LY·68	Traverse tables
LYA	Instruments Not including instruments for surveys of limited extent.
LYB	Zenith telescope See also Practical Astronomy, Instruments. LYB, etc.
LYC	Theodolite
LYCA	Altazimuth
LYCE	Transit
LYCI	Engineer's
LYCL	Mountain
LYCO	Surveyor's
LYCU	Repeating circle
LYCY	Accessory apparatus
LYD	Heliograph (Helioscope)
LYE	Compass
LYEA	Plain
LYEE	Railroad
LYEI	Vernier
LYEL	Vernier transit
LYEO	Solar

LYEU	Dial
LYEY	Dip
LYF	Tachymeter (Tacheometer)
LYG	Levelling instruments
I.YGC	Surveyor's level
LYGG	Gavett level (Dumpy-level)
LYGM	Y-level
LYGR	Levelling rod
LYH	Plane-table
LYHA	Alidade
LYI	Odometer
LYJ	Barometer
LYJA	Aneroid
LYJE	Plain
LYJI	Mountain
LYJO	Mercurial
LYJU	Sympiesometer (Sympiezometer)
LYK	Gravity instruments
LYKA	Pendulum
LYKC	Convertible
LYKE	Defforge's
LYKG	Invariable
LYKI	Repsold's
LYKN	Reversible
LYKO	Gravity meters
LYKU	Barymeter
LYKY	Gravity balance

LYL Figure of the earth

See also Astrophysics—Earth Lxq

LYM	Curvature
LYN	Arc determination
LYNE	Meridian arc
LYO	Gravity experiments
LYOP	Pendulum observations
LYP	Determination of geographical positions
LYQ	Geographical latitude and longitude
LYQT	Particular stations
	Geographical arrangement : with local list
LYR	Base-line measurements
LYS	Triangulation
LYSE	Calculation of triangulation
LYT	Levelling
LYU	Co-ordination of geodetic points
LYV	Geodetic surveys
LYW	Trigonometrical surveys (Ordnance survey, etc.)
LYX	Topographical surveys
	Geographical arrangement : with local list. This might be relegated to surveys, in Geography.

LYY	Hypsometry Altitudes, by countries : with local list. This might be re- legated to surveys, in Geography.
LYZ	Barometry
LZ	Nautical astronomy and Navigation*
LZA	Tables
LZAB	Traverse (Latitude and Longitude)
LZAD	Spherical traverse
LZAG	Meridional parts
LZAL	Altitude
LZAN	Azimuth
LZAR	Dip
LZAS	Reduction
LZAT	Correction
LZAV	Tables for great circle sailing Tide. <i>See</i> Tides (Lzz). [And others]
LZB	Charts
LZC	Mercator
LZD	Gnomonic
LZE	Polyconic
LZF	Coast pilot and sailing directions With the local list.
LZG	Instruments
LZH	Lead
LZHE	Sounding machines
LZHO	Piezometer
LZI	Log
LZIE	Electric
LZII	Differential manometric
LZIO	Ground
LZIU	Massey's
LZJ	Log-book
LZK	Marine odometer
LZL	Mariner's compass
LZLE	Evoy-patented
LZLO	Registering
LZLY	Compass-card
LZM	Azimuth compass
LZN	Chronometer
LZNE	Double chronometer
LZO	Quadrant
LZP	Sextant
LZQ	Octant

*If this is not kept in Astronomy the title might read:
Navigation including Nautical Astronomy.

LZR	Artificial horizon For LZO-LZR <i>see also</i> Practical astronomy, <i>Instruments</i> , (LVR, <i>etc.</i>)
LZS	Use of the compass
LZSE	Deviation and rectification
LZT	Rating chronometers
LZU	Correction of errors of sextant
LZV	Position determination
LZVA	Dead reckoning (Account)
LZVE	Pilotage
LZVI	Cross-bearings
LZVO	Sounding
LZW	Observation (Astronomical navigation)
LZWA	Latitude and Longitude determination
LZWE	Altitudes
LZWI	Meridian
LZWO	Ex-meridian, Circum-meridian
LZWU	Sun's cross-bearings
LZWY	Double altitude
LZWYL	Lalande's method
LZWYP	Pagel's method
LZWYM	Marcq Saint Hilaire's method
LZWYS	Sunmer's method
LZX	Sailing
LZXA	Composite
LZXC	Current
LZXE	Great circle, Tangent
LZXI	Mercator
LZXN	Middle latitude
LZXO	Oblique
LZXP	Parallel
LZXU	Plane
LZXV	Traverse
LZXY	Windward
LZY	Winds and currents
LZZ	Tides For the theory of tides <i>see</i> Celestial mechanics— <i>Gravitation</i> . (LUI).
LZZE	Tide tables, Tidal constants

Natural History

M·1 Theory. Philosophy

M·2 Bibliography

M·3 Biography

M·4 History

M·5 Dictionaries. Encyclopedias

M·6 Yearbooks. Directories

M·7 Periodicals

M·8 Societies

M·9 Collections

M General and miscellaneous works

MA Classification. Nomenclature

MAE Museums

With local list. For geological and other special museums, see the subjects.

MAF Construction

MAG Appliances

MAH Museum technique

MAI Collecting and preserving

Subdivide, if necessary, as in OAB, OAC

MAN Aquaria

With local list, if needed

MAR Geographical distribution (i.e: of plants
and animals)

General works only. *See also* NH, OGA

MAS Scientific expeditions (narratives)

With local list.

MAT Publications (results)

Natural history of the Bible *See* NBEN

MICROSCOPY

Classification made by Mr. Richard Bliss, Librarian of the Redwood Library, Newport, R. I.

SYNOPSIS

Microscopical technique MBC

Micrography MBF

Microbiology MBG

Microbotany MBH

Microzoology MBI, MBJ

Technical and Economic Microscopy MBK

Nomological (Legal) Microscopy MBL

Medical Microscopy MBM

Bacteriology MBN

Laboratories MBP

Morphology MBQ

Physiology MBR

Special bacteriology MBS

MB1 Teaching

MB2 Bibliography

MB3 Biography

MB4 History

MB5 Dictionaries

MB6 Tables

MB7 Periodicals

MB8 Societies

MB9 Collections

MB Comprehensive and miscellaneous works

MBA Museums

With local list

MBB Laboratories

With local list, if needed

MBC Microscopical technique *See also* **OAM**

MBD Microscopes

MBDP Appliances and parts

MBDQ Stands

MBDU Optical apparatus. Lenses

MBDW Polarizing apparatus

MBDY Photographing apparatus. Photomicroscope

See also **MBEW**

MBE	Preparation
MBEA	Section cutting. Microtomy
MBEAI	Imbedding
MBEB	Microtome
MBEF	Fixing. Hardening, etc
MBEG	Preserving media
MBEH	Stains and staining
MBEK	Other operations
MBEKD	Decalcification. Softening
MBEM	Mounting
MBEN	Cells
MBEO	Slides
MBEP	Cements. Varnishes
MBER	Special treatment for particular substances
MBERD	Deposits
MBERS	Suspended matter
MBES	Methods for study of sections
MBET	Drawing
MBEU	Modeling
MBEV	Micrometer
MBEW	Photomicrography
MBEZ	Dealers' catalogues

MBF Micrography. Descriptive microscopy

In all libraries, except microscopical ones, it will be best to use this division for general works, and to put the books relating to its subdivisions with the subjects (Botany, Zoology, Medicine, etc.,) to which they refer.

MBFA	<i>Inorganic</i>
MBFC	Microchemistry Better in Chemistry
MBFE	Micromineralogy Better in MDKM
MBFH	Microcrystallography Better in MEX
MBFJ	Micropetrology Better in MFM
MBFM	Microgeology (Economic) Alphabetical sub-arrangement <i>See also</i> MGY
MBFMC	Carbon (Coal)
MBFMI	Iron
MBFP	Micropalaeontology Better in MGPM
MBFQ	Palaeobotany
MBFT	Palaeozoology
MBFZ	<i>Organic</i>
MBG	Microbiology Better in Biology
MBGC	Cell
MBGD	Protoplasm
MBGF	Nucleus. Nucleolus
MBGH	Vacuole
MBGJ	Cell-wall
MBH	Microbotany
MBHA	Histology Cell <i>See</i> MBGC
MBHC	Tissue
MBHCA	Parenchyma
MBHCE	Prosenchyma
MBHCI	Embryonic (Meristem)
MBHCT	Tissue systems
MBHD	Morphology Sub-arrangement as in ND

MBHDC	Root
MBHDG	Stem
MBHDL	Leaf
MBHDP	Flower
MBHDR	Reproductive organs
MBHDX	Seed. Fruit
MBHE	Physiology Sub-arrangement (if necessary) as in NE
MBHH	Systematic botany Sub-arrangement as in NJ
MBHI	Protophyta
MBHIA	Schizophyta
MBHIB	<i>Bacteria</i> See also MBN
MBHID	Myxomycetes
MBHIF	Flagellatae
MBHIH	Silicoflagellatae
MBHIK	Peridineae
MBHIP	Diatomeae <i>Diatoms</i>
MBHIS	Conjugatae <i>Desmids</i>
MBHIV	Heterocontae <i>Confervae</i>
MBHJ	<i>Cryptogamia</i>
MBHK	Thallophyta
MBHLL	<i>Algae</i> <i>Sea-weeds</i>
MBHLM	<i>Fungi</i> <i>Mushrooms</i>
MBHLN	<i>Lichenes</i> <i>Lichens</i>
MBHO	Bryophyta
MBHP	Hepaticae <i>Liverworts</i>
MBHQ	Muscae <i>Mosses</i>
MBHR	Pteridophyta <i>Ferns</i>

MBHS	Cycadofilices
MBHT	Spermatophyta (Phanerogamia)
MBHU	Gymnospermae
MBHV	Angiospermae
MBHW	Particular classes of plants
MBHX	Parasitic
MBHZ	Poisonous
MBI	Microzoology Sub-arrangement as in OB—OD
MBIA	Morphology
MBIAB	Protoplasmic structure <i>See also</i> Biology
MBIB	Multicellular structure
MBIC	Myography
MBID	Supporting and defensive structures
MBIE	Splanchnology
MBIEA	Alimentary system
MBIEL	Vascular system
MBIER	Respiratory system
MBIEU	Excretory system
MBIF	Nervous system
MBIG	Urinogenital system
MBIH	Histology (Tissues)
	Cell <i>See</i> Biology
MBII	Tegumentary
MBIJ	Specialized
MBIK	Connective
MBIL	Osseous
MBIM	Muscular
MBIN	Nervous
MBIO	Vascular

MBIOL	Liquid
MBIOM	Chyle
MBIOR	Lymph
MBIP	Blood
MBIQ	Reproductive
MBIR	Physiology
MBIS	Cellular
MBIT	Alimentary system
MBIU	Vascular
MBIW	Secretory (Glandular)
MBIY	Reproductive
MBIZ	Physiological chemistry
	Sub-arrangement as in Oco
MBJ	Systematic zoology
MBJA	<i>Invertebrata</i>
MBJB	Protozoa
MBJC	Porifera
MBJD	Coelenterata
MBJE	Echinodermata
MBJF	Platyhelminia
MBJFH	Nemertea
MBJFN	Nemathelminia
MBJFT	Trochelminia (Rotifera, etc.)
MBJG	Mollusca
MBJH	Annelida
MBJHK	Polyzoa
MBJHR	Brachiopoda
MBJHW	Chaetognatha
MBJI	Arthropoda

MBJJ	Myriapoda
MBJK	Arachnida
MBJL	Crustacea
MBJM	Chilopoda
MBJN	Hexapoda <i>Insects</i>
MBJP	Parasites <i>See also</i> MBMP
MBJQ	Chordata
MBJQH	Hemichordata
MBJR	Protochordata
MBJS	Vertebrata
MBJT	Cyclostomata
MBJU	Ostracodermi
MBJV	Pisces
MBJW	Amphibia
MBJX	Reptilia
MBJY	Aves
MBJZ	Mammalia

MBK Technological and Economic microscop

MBKA	Mining
MBKB	Metallurgy
MBKC	Agriculture
MBKD	Soils
MBKE	Fertilizers
MBKF	Soil products. Crops
MBKG	Dairy products. <i>See also</i> MBUN
MBKH	Horticulture
MBKHA	Vegetables
MBKHF	Fruits

MBKHL	Flowers
	Pests. <i>See</i> MBV
MBKHR	Forestry
MBKI	Animal culture
MBKJ	Domestic economy
MBKK	Foods. <i>See also</i> MBUL
MBKL	Beverages. <i>See also</i> MBUP
MBKM	Chemical technology
	Sub-arrangement as in Rz or in T
MBKN	Constructive arts
	Sub-arrangement as in Sc, Sd
MBKO	Sanitation
	Sub-arrangement as in Sj
MBKP	Drinking water. <i>See also</i> MBUD
MBKQ	Sewage
MBKR	Manufactures
MBKRA	Raw material
MBKRE	Vegetable fiber
MBKRI	Animal fiber
MBKRO	Mineral fiber
MBKS	Manufactured product
MBKSL	Leather
MBKSP	Paper
MBKT	Textile fabrics
	Alphabetical sub-arrangement
MBKW	Mechanic trades
NBKZ	Fine arts
MBKZP	Pigments. Better in MBKM

MBL Nomological (legal) microscopy

MBLA	Personal characteristics
MBLE	Skin
MBLF	Finger-marks
MBLH	Hair
MBLJ	Clothing
MBLK	Blood-stains. <i>See also</i> MBIP
MBLM	<i>Other</i>
MBLN	Handwriting. Ink
MBLP	Falsifications. Forgeries
MBLR	Counterfeiting
MBLS	Medical jurisprudence
MBLT	Toxicology
MBLU	Sexual crime

MBM Medical microscopy

	Better in OCF
MBMA	Anatomy
MBMC	Physiology
MBMF	Pharmacy. Drugs. Medicines
MBMG	Therapeutics
MBMI	Pathology (Diseases)
MBMK	Blood. <i>See also</i> MBIP
MBML	Sputum
MBMM	Particular regions
	Germ theory. <i>See</i> QCH
	Bacteriology. <i>See</i> MBN
MBMN	Particular diseases. Books generally will go in MBX If necessary sub-divide as in QF—QO.
MBMP	Parasitic protozoa. <i>See also</i> QFZ

MBMQ	Hosts
MBMS	Pathogenic protozoa. Sub-arranged alphabetically
MBMSC	Ciliata
MBMSS	Sporozoa
MBMT	Diseases caused by protozoa
MBMU	Malaria
MBMV	Piroplasmosis
MBMW	Trypanosomiasis. (Sleeping sickness)
MBMX	<i>Other</i>

MBN Bacteriology *See also* NNB, QCG, QGAB, QHD

MBN'7	Periodicals
MBN'8	Societies
MBN'9	Collections
MBNC	Classification. Nomenclature
MBP	Laboratories. With local list.
MBPA	Methods of culture, etc.
MBPB	Isolation
MBPE	Sterilization
MBPK	Bio-chemical methods
MBPR	Apparatus and instruments Microscope technique. <i>See</i> MBG
MBQ	Morphology. <i>See also</i> NNB
MBQA	Form and structure. <i>See also</i> MBT
MBQB	Globular (Micrococci)
MBQC	Rod-like (Bacilli)
MBQD	Thread-like
MBQE	Spiral (Spirillae)

MBQH	Merismopedium
MBQI	Sarcina
MBQK	Saprophytic
MBQN	Parasitic
MBQP	Pathogenic. <i>See also</i> MBX
MBQPS	Spirochaete
MBQV	Spores
MBR	Physiology. Biology, etc.
MBRA	Cultural character
MBRB	Vitality
MBRD	Nutrition. Growth
MBRE	Propagation. Reproduction
MBRG	Movement
MBRI	Oekology
MBRIA	Action of chemical reagents
MBRIC	Action of nitrogenous substances. <i>See also</i> MBRP
MBRID	Aerobism Anaerobism
MBRIF	Relation to light
MBRIH	Phosphorescent bacteria
MBRIM	Relation to heat
MBRIN	Thermophilous bacteria
MBRIS	Symbiosis
MBRIV	Antagonism
MBRK	Enzymes. Fermentation
MBRL	Putrefaction
MBRO	Oxidation
MBRP	Nitrification. Denitrification. <i>See also</i> MBRIC
MBRS	Products of metabolism
MBRT	Toxius and antitoxins

MBS	Special bacteriology
MBT	Bacteria of inorganic substances
MBTI	Iron bacteria
MBTN	Nitrogen bacteria. Holophytic bacteria.
MBTS	Sulphur bacteria (Thiobacteria) <i>See also</i> MBRP
MBU	Relation to non-living substances. <i>See also</i> MBV
MBUA	Air
MBUD	Water. "Water bacteriology"
MBUE	Ice
MBUG	Soils
MBUK	Aliments.
MBUL	Food
MBUN	Dairy products
MBUP	Beverages
MBUPB	Beer. Brewing
MBUR	<i>Other</i>
MBV	Bacteria of hygiene and sanitation. <i>See also</i> MBU
MBVA	Dwellings
MBVE	Sewage
MBVI	Refuse material
MBVN	Clothing
MBW	Relation to the animal kingdom
MBWA	Bacteria of particular organs Sub-divide as in QA, if necessary
MBWF	Saprophytic micro-organisms
MBWG	Non-pathogenic organisms
MBWH	Pathogenic organisms
MBWI	Immunity. Immunization
MBWL	Leucocytosis

MBWP	Serum reaction
MBWS	Bacteriolysis
MBWV	Disinfection. Antiseptics
	Bacteria of Pharmacy. <i>See</i> MBMF
MBX	Bacteria of disease. Sub-divide as in QF-QO. <i>See also</i> MBMI
MBY	Micro-organisms in relation to plants
MBYB	Bacteriosis
MBYD	Grasses and cereals
MBYG	Vegetables
MBYK	Trees and shrubs
MBYN	Fruits
MBYP	Particular classes of plants
	For sub-divisions follow the arrangement in NN-Nz
MBYR	Micro-organic diseases of animals
MBYS	Animals and man. Alphabetical sub-arrangement.
MBYSA	Anthrax
MBYSG	Glanders
MBYSR	Rabies
MBYT	Animals alone
	Alphabetical sub-arrangement
MBYU	Particular classes of animals
	Sub-arrange alphabetically by the name of the animal, or by classes as in OG-Pr. The former is preferable.

MBZ Cosmical Physics

Astrophysics *See* LW

MC Meteorology (Aerology)

Mc'1 Study and teaching

Mc'2 Bibliography of Meteorology

Mc'3 Biography of Meteorologists

Mc'4 History

Mc'5 Dictionaries

Mc'6 Tables. Handbooks

Special tables will go with the subjects to which they refer.

Mc'7 Periodicals

Mc'8 Societies

Mc'9 Collections

MCA Nomenclature. Classification

See also **MCIK**, **MCLI**

MCB Cosmical meteorology

MCD Dynamic meteorology. Physics of the atmosphere

MCDA Thermodynamics of the air

MCDG Graphic analysis

MCDK Air mixtures

MCDN Conductivity

MCE Special phenomena

MCEA	Atmospheric vortices <i>See also</i> LIZFV
MCED	Radioactivity
MCEI	Ionization. Nucleation. Condensation nuclei. <i>See also</i> LMTI
MCEK	Atmospheric dust
MCEM	Volcanic ash. Smoke
MCEP	“Dark day.” “Yellow day,” etc.
MCES	Showers of “blood,” “sulphur”, etc.
MCET	Red snow
MCEV	Composition of the air
MCEY	Height of the atmosphere
MCF	Investigations of the upper air
MCFA	Kites and balloons
	Optical phenomena. <i>See</i> MCN
MCFI	Temperature and radiation
MCFK	Diurnal and nocturnal variations
MCFM	Measurement and distribution of temperature. <i>See also</i> MCQ
MCFN	Thermometry
MCFY	Isotherms. Thermometric charts
MCFU	Terrestrial radiation
MCFV	Black-bulb thermometer
MCH	Pressure and circulation
MCHA	Distribution of pressure. Diurnal changes
MCHC	Measurement of pressure. Barometry
MCHD	Apparatus
MCHK	Correction and reduction
MCHM	Isobars. Barometric charts
MCHN	Circulation
MCHP	Ferrel's theory

MCHR	Other theories and investigations
	Alphabetically sub-arrangement, as:
MCHRH	Helmholtz
MCHRS	Siemens
MCHW	Friction of the currents. "Internal work" <i>See also</i> LIZFI
MCI	Winds and storms
MCIA	Theories
MCIAAC	Convectional
MCIC	Effects of the earth's rotation
MCIF	Measurement of velocity. Anemometry
MCIG	Apparatus
MCIH	Diurnal and annual variations
MCIJ	Wind tables. Diagrams. Windrose
MCIK	Classification of winds
MCIKA	Planetary
MCIKE	Trade-winds. Doldrums
MCIKM	Monsoons
MCIM	Wind storms. Hurricanes
MCIN	Cyclonic storms
MCINA	Tropical
MCINE	Extra-Tropical
MCIP	Cyclonic and anticyclonic winds
MCIQ	Warm wave. Sirocco
MCIQF	Foehn. Chinook
M CIR	Cold wave. Blizzard
MCIRB	Bora. Mistral
MCIT	Anticyclonic calm
MCIU	Local storms
MCIV	Thunder storms. <i>See also</i> LMTP

MCIW	Tornadoes. Waterspouts
MCK	Atmospheric moisture
MCKA	Humidity
MCKD	Vertical distribution of vapor
MCKM	Measurement. Local distribution. With local list
MCKN	Atmometry (Atmidometry)
MCKP	Hygrometry
MCKPH	Hygrometer
MCKS	Psychrometry
MCKSP	Psychrometer
MCL	Condensation and precipitation
MCLA	Dew. Dew point
MCLC	Frost
MCLF	Fog. Fog-breakers
MCLH	Clouds
MCLI	Classification
MCLJ	Altitude
MCLM	Measurement
MCLMS	Sunshine records
MCLP	Precipitation. Rainfall. Snow
MCLPA	Relation to atmospheric circulation
MCLQ	Distribution of rain and snow. With local list
MCLR	Measurement. With local list
MCLRG	Rain gange
MCLS	Snow. Hail
MCLU	Artificial production of rain
MCLV	Drought

- MCM Atmospheric electricity. *See also* LMT
 Thunder storms. *See* MCIV
- MCMG Globular lightning
- MCMK St. Elmo's fire
- MCMP Aurora borealis. *Better in* LXQI. *See also* L,NLP
- MCMZ Ozone
- MCN Meteorological optics
- MCNA Refraction phenomena
- MCNC Color of the sky
- MCND Sunrise, sunset and twilight phenomena
- MCNE Red sunsets
- MCNH Rainbows. Fog bows, etc
- MCNK Coronae. Halos. Parhelia
- MCNL Luminous clouds
- MCNP Mirage. Fata Morgana
- MCNT Brocken spectre
- MCP Synoptic meteorology
- MCPA Alteration of pressure
- MCPL Meteorological limit
- MCQ Practical meteorology. Weather
- MCQA Methods of observation. Computation
- MCR Meteorological observatories. With local list
- MCS Publications
- MCT Mountain observatories. With local list
- MCU Local weather phenomena. Observations. Forecasts
- MCV Weather bureaus. With local list
- MCW Storm signals. Weather warnings
- MCWC Cold wave warnings

MDA Museums. Cabinets

With local list

MDB Determinative mineralogy

MDC Laboratories

With local list

MDCA Apparatus

MDCM Laboratory manuals

MDD Publications

MDE Analysis. Determination

MDEA Physical

MDEK Chemical

MDEL Blowpipe

MDEP Wet way

MDF Chemical mineralogy

MDFE Isomerism

MDFI Isomorphism

MDFL Pleomorphism (Dimorphism, Isodimorphism)

MDFP Pseudomorphism. *See also* MFIP

Chemical examination. *See* MDEK

MDG Physical mineralogy

MDH Optical characters

MDHA Color. Pleochroism

MDHE	Luster. Schiller
MDHI	Asterism
MDHK	Fluorescence. Phosphorescence
MDHM	Effects of heat
MDHO	Optical anomalies
MDI	Thermal characters
MDIC	Conductivity
MDID	Diathermacy
	Electrical and magnetic characters. <i>See</i> MEU

Crystallography. *See* ME

MBK Descriptive mineralogy

MDKC	Classification. Nomenclature
MDKM	Micromineralogy
MDKZ	Dealers' catalogues
MDL	Particular groups of minerals (or individual minerals)
	Except in special libraries descriptive works on particular minerals had better be put here, and arranged alphabetically under the name of the mineral.
MDM	Native elements. Alphabetical sub-arrangement as:
	Diamond. <i>See</i> MDW
MDMG	Gold
MDMI	Iron. <i>See also</i> MDT
MDMS	Silver
MDN	Sulphids. Selenids. Tellurids. Arsenids. Antimonids
MDNA	Of the semi-metals
MDNM	Of the metals

MDNS	Sulpho-salts
MDO	Haloids
MDOA	Anhydrous chlorids. Bromids. Iodids. Fluorids
MDOH	Oxychlorids. Oxyfluorids
MDOP	Hydrous chlorids and fluorids
MDP	Oxids
MDPA	Silicon
MDPI	Semi-metals
MDPM	Metals
MDQ	Oxygen salts*
MDQA	Carbonates
MDQE	Silicates
MDQJ	Phosphates. Arseniates. Vanadates. Antimonates
MDQN	Nitrates
MDQP	Borates
MDQR	Uranates
MDQS	Sulphates. Chromates. Tellurates
MDQW	Tungstates. Molybdates
MDR	Salts of organic acids
MDRA	Oxalates
MDRM	Mellates
MDS	Hydrocarbon compounds
MDSA	Simple
MDSD	Oxygenated
MDSH	Petroleum
MDSK	Asphaltum
MDSM	Mineral coal. <i>See also</i> MFSR
MDSN	Anthracite
MDSP	Bituminous
MDSR	Lignite

MDT	Meteorites. Meteoric iron
MDTA	Structure
MDTI	Alloys and intrusions
MDU	Local distribution. With local list
MDV	Precious stones
MDW	Diamond
MDX	<i>Others</i>

MDY Synthetic mineralogy. *See also* **MEP**

MDZ Geographical distribution

With local list

ME Crystallography

Classification made by Richard Bliss, Librarian of the Redwood Library, Newport, R. I.

- 5 Dictionaries
- 6 Tables. Handbooks
- 7 Periodicals
- 8 Societies
- 9 Collections

MEA Mathematical and geometrical

MEB Calculation and drawing (Crystallography)

MEC Miscellaneous

MED Determination

MEE Goniometric measurements

MEE.6	Tables of angles
MEF	Optical methods. <i>See also</i> MET
MEG	Drawing. Projection. (Axonometry)
MEGA	Axonometric designation
MEGS	Stereographic method
MEH	Classification. Nomenclature
MEI	Laws of symmetry. Groups
MEIP	Pseudosymmetry
MEK	Crystal systems
MEKA	Isometric
MEKE	Tetragonal
MEKH	Hexagonal
MEKI	Hexagonal
MEKJ	Trigonal (Rhombohedral)
MEKO	Orthorhombic
MEKR	Monoclinic
MEKT	Triclinic
MEM	Morphological (Structure and growth)
MEMB	Theories of structure. Molecular constitution
MEME	Twining. Compound crystals Pseudomorphs <i>See</i> MDFP. MFIP
MEMI	Irregularities
MEMJ	Variations
MEMK	Imperfections. Inclusions
MEMN	Crystalline aggregates
MEN	Growth
MEP	Artificial production <i>See also</i> MDV
MER	Chemical
MES	Physical

MESC	Cohesion. Cleavage
MESH	Hardness
MESK	Etching-figures
MESN	Gliding planes
MESR	Elasticity
MET	Optical crystallography <i>See also</i> MEF
META	Absorption
METD	Refraction. Birefringence
METE	Refractive indices
METH	Polarization
	Fluid crystals <i>See</i> LISFC
MEU	Electrical phenomena
MEUA	Pyro-electrical <i>See also</i> LMEF
MEUK	Piezo-electrical <i>See also</i> LMEP
MEV	Magnetic properties
MEX	Micro-crystallography

MF Petrography

(Petrology. Lithology)

Classification made by Richard Bliss, Librarian of the Redwood Library, Newport, R. I.

- .5 Dictionaries
- .6 Handbooks. Tables
- .7 Periodicals
- .8 Societies
- .9 Collections

MFA Museums. Cabinets

With local list

MFB Classification. Nomenclature

MFC Determination of rocks

MFCA	Apparatus
MFCH	Technique
MFCK	Chemical
MFCM	Microscopic

MFD Laboratories

With local list

MFE Petrogenesis. (Origin and formation)

MFF	Rock-forming minerals
MFG	Molten-magmas
MFH	Internal alteration
MFHA	Oxidation and deoxidation
MFHE	Solution. Decomposition
MFI	Reconstruction
MFIC	Cavity-filling. (Agate structure. Geodes)
MFIF	Fissure-filling Veins. Dykes
MFIL	Concretions
MFIP	Pseudomorphs. <i>See also</i> MDFP
MFJ	Effects of pressure and heat
MFJA	Slaty structure
MFJB	“Newport conglomerate”

M _{FJF}	Foliation. Schistosity
M _{FK}	Metamorphism
M _{FKA}	Local. Contact metamorphism
M _{FKC}	Regional. General (Normal) metamorphism
M _{FKD}	Dynamical (Rosenbusch)
M _{FKG}	Statical (Judd)
M _{FKK}	Crystallinic (Dana)
M _{FKL}	Paramorphic (Dana)
M _{FKM}	Metachemic (Dana)
M _{FL}	Chemical geology
M _{FLM}	Metosomatosis

M_{FM} Micropetrology

M_{FN} Descriptive petrography

For small libraries an alphabetical arrangement of individual rocks, without subdivision — or at the most with the subdivisions M_{FP}, M_{FQ}, M_{FR} — will be best.

M _{FP}	Igneous (Eruptive. Massive) rocks
M _{FPA}	Pyroclastic Individual rocks to be arranged alphabetically under their appropriate subdivisions as follows:
M _{FPA B}	Breccia
M _{FPA P}	Pumica
M _{FPA T}	Tuff
M _{FPC}	Glassy rocks. Lava <i>See also</i> M _{HCL}
M _{FPC C}	Crystalline. Microlite
M _{FPC F}	Felsite
M _{FPC R}	Rhyolite
M _{FPE}	Porphyry <i>See also</i> M _{FPG} , M _{FPJ}

MFPFL	Leucophyre (Felsite porphyry)
MFPFM	Melaphyre (Basalt porphyry)
MFPFG	Granite family
MFPGG	Granite
MFPGQ	Quartz porphyry
	Rhyolite family <i>See</i> MFPCR
MFPJ	Syenite family
MFPJP	Porphyrite
MFPJS	Syenite
MFPJT	Syenite porphyry
MFPL	Elaeolite-Syenite family
MFPLE	Elaeolite-syenite
MFPLM	Malignite
MFPN	Diorite family
MFPNA	Apatite
MFPND	Diorite
MFPNP	Porphyrite
MFPQ	Trachyte family
MFPQP	Phonolite
MFPQT	Trachyte
MFPR	Andesite family
MFPRD	Dacite (Quartz-andesite)
MFPRP	Prophyllite
MFPFT	Gabbro-Basalt group
MFPFB	Basalt
MFPFD	Diabase
MFPFE	Dolerite
MFPFG	Gabbro
MFPV	Limburgite group

MFPVA	Augite
MFPVL	Limburgite
MFPX	Peridotite group
MFPXP	Peridotite
MFPXS	Serpentine
MFQ	Schistose (Metamorphic) rocks
MFQA	Argillites. Argillaceous schist
MFQC	Clayslate
MFQE	Quartz schist
MFQG	Quartzite (Quartz rock)
MFQI	Schistose conglomerate
MFQK	Graphite schist
	Crystalline limestone <i>See</i> MFTL
MFQM	Augite schist
MFQN	Greenstone schist
MFQP	Amphibolite schist
MFQR	Talc schist
MFQT	Mica schist
MFQU	Gneiss
MFR	Sedimentary rocks
MFS	Clastic (Fragmental)
MFSA	Gravel and sand rocks
MFSB	Breccia
MFSC	Conglomerate <i>See also</i> MFJB
MFSD	Sandstone
MFSH	Clay rocks
MFSI	Clay slate
MFSJ	Shale
MFSL	Till (Boulder clay)

MFSR	Coal <i>See also</i> MDSM
MFST	Graphite
	Limestone <i>See</i> MFTL
	Flint. Chert. <i>See</i> MFTT
MFT	Crystalline (incl. Chemical precipitates)
MFTD	Dolomite
MFTG	Gypsum
MFTI	Ironstone <i>See also</i> MFU
MFTIH	Haematite
MFTIM	Magnetite
MFTL	Limestone
MFTM	Marble
MFTO	Oolite
MFTQ	Travertine
MFTS	Rock salt
MFTT	Flint. Chert
MFTV	Geyserite (Silicious sinter)
MFU	Ore deposits. <i>See also</i> RFA
MFUA	Genesis
MFV	Description Sub-arranged alphabetically by the name of the ore.
MFV	Local distribution
MFV	With local list. <i>See also</i> RF

Meteorites. *See* MDT

MFY Local distribution of rocks

With local list.

GEOLOGY

Classification made by Richard Bliss, Librarian of the Redwood Library, Newport, R. I.

SYNOPSIS

Cosmical geology MGA

Geognosy MGZ

Dynamical geology MH

Physiography MI

Petrographic geology *See* MF

Structural (Tectonic) geology MJ

Historical (Stratigraphic) geology MK

Stratigraphy ML, MM

Topographic geology MN

Geological surveys MO

Geological maps MP

Palaeontology MQ

Local Palaeontology MR

Local stratigraphic Palaeontology MS

Palaeobotany MT

Palaeozoology MU

Economic geology MUV

- 2 Study. Teaching
- 3 Biography
- 4 History
- 5 Dictionaries
- 6 Handbooks. Year-books. Charts.
For maps see MP
- 7 Periodicals
- 8 Societies
- 9 Collections

MG General works

MGA Cosmical geology

MGF Form and size of the earth.

See also LXQB

MGM Movements

Better in LTRC or LUP

MGP Cosmogony

MGS Geology and scripture

MGT Days of creation

MGU Deluge

MGZ Geognosy (Dynamic and Physiographic)

General works only.

MH Dynamical geology

- MHA Internal heat
- MHAE Temperature in excavations
- MHAI Condition of the earth's interior
- MHB Hypogene (Igneous) action. *See also* MJU
- MHC Volcanoes. Volcanic action
Includes earthquakes when both are treated of
in the same book.
- MHCA Structure
- MHCD Submarine volcanoes. Volcanic islands
- MHCF Fissural eruptions
- MHCK Volcanic products
- MHCL Lava
- MHCN Gases
- MHCR Mud volcanoes
- MHCT Local distribution
With local list
- MHD Observatories
With local list
- MHDM Publications
- MHE Geysers. Hot springs
- MHF Earthquakes. *See also* MJM
- MHG Earthquake phenomena
- MHGA Amplitude of vibration
- MHGB Propagation
- MHGI Earthquake waves. "Tidal waves"
- MHGN Distant earthquake shocks
- MHGS Seismic vertical
- MHGT Microseismic unrest

MHGv	Local distribution With local list
MHH	Observatories
MHHA	Instruments and apparatus Alphabetical sub-arrangement
MHHM	Publications
MHI	Epigene geology. Surface geology
MHJ	Atmosphere
MHJA	Mechanical action
MHJD	Loess
MHJH	Sand. Blown sand. Dunes
MHJI	Sand erosion
MHJM	Chemical action
MHJO	Oxidation
MHJT	Temperature effects
MHJW	Effects of electricity
MHK	Water
MHL	Rain
MHLA	Corrosion (Abrasion and solution)
MHLE	Transportation
MHLI	Soil formation
MHLO	Movement of soil-cap
MHM	Underground waters
MHMA	Springs. Flowing wells. <i>See also</i> MHE
MHMI	Subterranean. Channels. Caverns
MHMK	Creeps. Slumps. Landslips.
MHN	Running waters. Rivers
MHNA	Erosion
MHNC	Subaerial denudation
MHNE	River systems. Drainage basins

MHNF	Falls. Rapids
MHNG	Graded rivers
MHNK	Effects of changes of level
MHNO	Canyons. Gorges
MHNR	Rate of erosion
MHNU	Unequal rock resistance
MHNV	Rock terraces
MHNX	Influence of joints and folds
MHNY	Natural bridges
MHO	Valleys
MHOA	River terrace
MHOB	Meanders
MHOG	Land waste. Deposits
MHOI	Plains and denudation. Peneplain
MHOL	Alluvial fans
MHOP	Deltas
MHOR	Estuary Deposits
MHOT	Flood plains
MHOW	Mesas. "Bad lands"
MHP	Lakes
MHPA	Fresh water. River lakes
MHPL	Lacustrine deposits
MHPS	Saline. (Salt lakes)
MHPV	Extinct
MHQ	Ice and snow
MHOA	Snow and ice fields. Ice cap
MHR	Glaciers. With local list
MHRA	Neve
MHRC	Internal structure
MHRF	Movement

MHRI	Evaporation. Drainage
MHRK	Temperature
MHRN	Erosion and transportation. Glaciation
MHRP	Deposition. Drift. Boulders
MHRS	Moraines. Kames. Eskers
MHRT	Ground moraines. Drumlins
MHRV	Glacial ice sheets. <i>See also</i> MMO
MHS	Icebergs
MHSC	Coast Ice. Ground ice
MHT	Oceanic waters
MHU	Currents. <i>See also</i> MIF
MHV	Tides. <i>See also</i> MIR
MHW	Waves. <i>See also</i> MIO
MHWA	Erosion
MHWF	Transportation and deposition
MHWG	Beaches
MHWJ	Spits. Bars
MHWN	Coastal configuration. <i>See also</i> MIJI
MHWR	Infra-littoral deposits. <i>See also</i> MIKI
MHX	Abyssal deposits. <i>See also</i> MIKI
MHY	Ancient seas
MHYA	Palaeozoic
MHYM	Mesozoic
MHYT	Tertiary
MHZ	Geologic functions of life
MHZA	Destructive action
MHZA	Conservative and reproductive action
MHZE	Peat bogs
MHZI	Phosphate deposits

MHZO Coral reefs and islands

MHZU Human action

MI Physiography. (Geophysics. Physical geography)

This subject properly belongs in Geography. But since it is sometimes treated as if it were a sub-division of Geology it is included here. So far as physiographic phenomena relate to geological action they belong to MGB.

MIA Atmosphere. Books generally in Mc

MIAT Atmospheric tides

MID Hydrosphere. (Hydrography)

MIE Rivers

MIEB Bores

MIEW Waterfalls

MIF Lakes

MIG Salt lakes

MIH Seiches

MII Oceans. (Oceanography)

MIJ Ocean areas and basins

MIJA Depth. Soundings

MIJC Continental shelves

MIJI Strand lines. *See also* MHWN

MIJK Fiords

MIJP Polar Seas

MIJT Tropical seas

MIK Partially enclosed seas. (Mediterraneans)

MIKA Origin. *See also* MHY

MIKE Ocean floor

MIKI Marine deposits. *See also* MHWR, MHX

MIL	Deep sea sounding and dredging
MIM	Sea water
MIMC	Composition, etc
MIMD	Density. Salinity
MIMT	Temperature
MIN	Circulation
MIO	Waves. <i>See also</i> MHW
MIOT	Tidal waves. <i>See also</i> MHGI
MIP	Currents. <i>See also</i> MHU
MIQ	Gulf Stream
MIR	Tides. <i>See also</i> LUI, LZZ, MHV
MIRA	Dynamic theories
MIRE	Tidal friction. <i>See also</i> LUIB
MIRO	Observations and researches
MIRT	Tidal phenomena in bays and estuaries
MIS	Life. <i>See also</i> OGAG
MIT	Lithosphere
MIU	Continental areas and outlines
MIV	Islands. For Coral islands, <i>See</i> MHZO
MIX	Plains and plateaus
MIW	Deserts and oases
MIY	Mountains. <i>See also</i> MJR

MJ Structural (Tectonic, Geotectonic) geology

MJA	Igneous rock structure
MJB	Sedimentary rock structure
MJBA	Stratification.

MJBE	Concretionary. <i>See also</i> MFIL
MJBI	Secretions. <i>See also</i> MFIC
MJc	Structure due to disturbance
MJD	Joints. Jointing
MJDA	In massive rocks
MJDE	In schistose rocks
MJDI	In stratified rocks
MJDO	Sandstone dikes
MJE	Inclination. Dip. Strike. Outcrop
MJF	Curvature. Folding
MJFA	Crumpling
MJFE	Deformation. Crushing
MJFI	Inversion
MJG	Cleavage
MJH	Dislocation
MJI	Faults
MJJ	Thrust-planes. Throw
MJL	Diastrophism (Deformation) Physics of the crust
MJM	Earthquakes (Geological effects) <i>See also</i> MHF
MJN	Slow massive movements
MJNA	Constant small movements
MJNE	Present elevation and subsidence
MJO	Great periodic movements
MJP	Continent formation
MJQ	Plateau formation
MJR	Mountain building (Orography) <i>See also</i> Mry
MJRA	Theories of origin
MJRF	Flexure and folding

MJRJ	Denudation
MJRM	Worn-down mountains (Monadnock)
MJS	Local orographic phenomena
MJT	Other sources of deformation
MJTA	Transfer of internal heat
MJTE	Extravasation of lava. <i>See also</i> MFKA
MJTG	Change in rate of rotation
MJTI	Interior rigidity
MJTS	Influence of sphericity
MJTT	Concave tracts in surface
MJTU	Vulcanism. <i>See also</i> MHB
MJV	Intrusions
MJW	Dikes. Veins. <i>See also</i> MFIF, MJDO
MJWL	Laccoliths, Sills, etc.
MJX	Extrusions. Volcanoes. <i>See also</i> MHC
MJXE	Volcanic eruptions. (in the Geologic past)
MJXL	Luna craters
MJY	Effects of heat
MJYA	Expansion
MJYC	Crystallization. Prismatic structure
MJYF	Fusion. Sublimation
MJYG	Aqueo-igneous fusion
	Metamorphism. <i>See</i> MFK
MJZ	Chemical geology

MK Historical (Stratigraphic) Geology

MKA	Geogony (Geogeny)
MKB	Hypotheses
MKC	Nebular (Laplace)

MKD	Meteoric (Lockyer. Darwin)
MKE	Planetesimal (Chamberlain)
MKF	Hypothetical stages of development
MKG	Under the Nebular hypothesis
MKH	Under the Planetesimal hypothesis
MKI	Nuclear
MKJ	Atmospheric
MKK	Hydrospheric
MKP	Differentiation. Deformation
MKT	Age of the earth. Geological chronology
MKW	Geological climates
ML	Stratigraphy

Comprises works on the physical history, life and local distribution (with local list) of the ages and periods with their subdivisions. For these latter use the initial letter or letters of the formation or group *after* the local mark. Thus under MLG (Cambrian) the Cambrian in England will be MLG 449, and the English Harlech beds will be MLG 449h. Similarly the Potsdam in New York State will be MLG 851p. To avoid lengthening the class-mark, the larger subdivisions (as Lower Middle and Upper Cambrian) will *follow* the smaller local groups, instead of including them. Thus, the Upper Cambrian in England will be MLJ 449, while the Tremadoc slates will be MLGT 449.

MLA	Azoic (Archaeozoic) age
MLB	Archaean period
MLC	Origin
MLD	Eozoic (Proterozoic) age
MLE	Algonkin period
MLEA	Stratigraphic relation

MLEL	Life
	Comprises general works on the fossil remains of the period (unless these are treated of under the general heading MLE)
	Descriptions of individual genera may be put either in MS, or in their appropriate places in NJ and OG.
MLF	Palaeozoic age
MLG	Cambrian period
MLGA	Physical history
MLH	Lower
MLI	Middle
MLJ	Upper
MLK	Life
MLL	<i>Silurian period.</i> General works. For sub-divisions see MLM and MLN
MLM	Ordovician. (Lower Silurian)
MLMA	Physical history
MLML	Life
MLN	Silurian. Upper Silurian
MLNA	Physical history
MLNL	Life
MLO	Devonian
MLOA	Physical history
MLP	Lower
MLQ	Middle
MLR	Upper
MLS	Old Red Sandstone
MLT	Life
MLTM	Flora
MLTN	Fauna
MLU	<i>Carboniferous.</i> General works. For sub-divisions see MLV and MLW

MLV	Lower Carboniferous
MLVA	Physical history
MLVL	Life
MLVM	Flora
MLVN	Fauna
MLW	Upper Carboniferous
MLWA	Physical history
MLWL	Life
MLWM	Flora
MLWN	Fauna
MLX	Permian (Dyas)
MLXA	Physical history
MLXG	Deformation. Glaciation
MLXL	Life
MLXM	Flora
MLXN	Fauna
MLY	Mesozoic age
MLZ	Triassic
MLZA	Physical history
MLZL	Life
MLZM	Flora
MLZN	Fauna
MM	Jurassic
MMA	Physical history
MMB	Liassic (Lias)
MMC	Oolite
MMCA	Middle
MMCG	Lower
MMCL	Life

MMCM	Flora
MMCN	Fauna
MMD	<i>Cretaceous</i>
MME	Lower Cretaceous (Comancheau)
MMEA	Physical history
MMEL	Life
MEMM	Flora
MMEN	Fauna
MMF	Upper (Later) Cretaceous (Cretaceous)
MMFA	Physical history
MMFL	Life
MMFM	Flora
MMFN	Fauna
MMG	Cenozoic (Cainozoic. Tertiary) age
MMH	Eocene
MMHA	Physical history
MMHL	Life
MMHM	Flora
MMHN	Fauna
MMI	Oligocene
MMIA	Physical history
MMIL	Life
MMIM	Flora
MMIN	Fauna
MMJ	Miocene
MMJA	Physical history
MMJL	Life
MMJM	Flora
MMJN	Fauna

MMK	Pleiocene
MMKA	Physical history
MMKL	Life
MMKM	Flora
MMKN	Fauna
MML	Pleistocene (Quaternary-Glacial)
MMN	Physical history
MMO	Glaciation
MMP	Drift
MMQ	Formations of the ice sheet
MMR	Fluvio-glacial deposits
MMS	Succession of the invasions
MMT	Formations outside the ice sheet
MMU	Causes of the glacial period
MMUA	Hypsometric hypothesis
MMUE	Astronomic hypothesis
MMUI	Atmospheric hypothesis
MMV	Life
MMVM	Flora
MMVN	Fauna
MMW	Life of inter-glacial stages
MMX	Life of non-glaciated regions
MMY	Man in the glacial period
	<i>See also Anthropology</i>
MMZ	Present (Human. Post-glacial)
MMZA	Physical history
MMZL	Life
MMZM	Flora
MMZN	Fauna

MN Topographic Geology

With local list

Comprises not only geological surveys (MGN) but all works on the geology of any region such as: *The Geology of Wales*, *The Geology of Narragansett Bay*. In small libraries, local stratigraphic works, even, had better be placed here.

MNA Geological guides

With local list

Mo Geological surveys

With local list

MP Geological maps

With local list

When geological sub-divisions are needed use the class-marks of ML, followed by the local mark.

Mq Palaeontology

MQA Miscellaneous questions

MQB Fossils and chronology

MQD Palaeontology and evolution

MQF Fossil collecting. Geographical excursions

MQK Dealers' catalogues

MQM Microscopic examination. Micropalaeontology.

See also MBFP

MR Local palaeontology

With local list

Comprises works dealing with the general fossil flora and fauna of particular countries or regions. See also MT, MU.

Ms Local stratigraphic palaeontology

With local list

Comprises works dealing with the local flora and fauna of particular formations, such as: The Permian fossils of Germany. If preferred these can go in the appropriate sub-divisions of ML. See note to MLEL.

Mt Palaeobotany

When it is necessary to sub-divide Mt and Mu for individual families or other groups, follow the classification of Descriptive Botany (Nj) and Zoology (OG). For works treating *locally* of particular fossil plants or animals, add the country number to the class-mark thus: Fossil cycads of Germany, MTRX47, Vertebrate fossils of Wyoming, MUP933.

Mu Palaeozoology. See note to Mt

Muv Economic geology

Muw Agriculture

Muy Mining

Muz *Others*

Biology

Classification by Mr. Richard Bliss, Librarian of the Redwood Library,
Newport, R. I.

- 1 Study. Philosophy
- 2 Bibliography
- 3 Biography
- 4 History
- 5 Dictionaries
- 6 Year-books. Hand-books
- 7 Periodicals
- 8 Societies
- 9 Collections

Mv Comprehensive and miscellaneous works

MvA Biological stations

With local list

MvB Experimental evolution stations

With local list

MvC Laboratories

Construction, arrangements, etc.

Descriptions of local laboratories will go in MvA.

MvD Methods of research. Apparatus

MvE Microscope. *See also* MBD, OAN

MVF	Technique. <i>See also</i> MBE, OAM
MVFA	Preparation. Cytological methods
MVFP	Photography
MVFR	Radiography
MVFS	Measurements

MvG Nomenclature

MvH Systematic and Comparative

MVI	Morphology. Anatomy. <i>See also</i> ND, OB
MVIA	Promorphology. Types of structure
MVIB	Mathematical treatment
MVIC	Symmetry
MVID	Anaxial
MVIE	Homaxial (Spherical)
MVIF	Monaxial (Radial)
MVIG	Bilateral
MVIII	Segmental
MVIM	Morphological correspondence
MVIN	Homology. <i>See also</i> OEU
MVIO	Analogy. <i>See also</i> OEUT
MVIP	Tectology. (Structural morphology)
	General and comparative works. Books treating of detailed morphology will usually go in ND or OB.
	Protoplasmic and cellular structure. <i>See</i> MVL
MVIR	Multicellular structure
MVIS	Histology
	General and comparative works. For plant histology see NC, and for animal histology OBX.

MVIT	Teratology (Malformations) <i>See also</i> NDL, OET
MVIU	Anomalies
MVIV	Abnormalities
MVIW	Reduplication. Suppression
MVIY	Hermaphroditism
MVJ	Physiology General and comparative works. For particular plant or animal physiology see NE and Oc respectively. Cellular. <i>See</i> MVP, MVR
MVJB	Metabolism
MVJC	Constructive (Anabolic)
MVJD	Destructive (Catabolic)
MVJG	Interchange of energy. Performance of work. (Kraftwechsel)
MVJH	Movement. <i>See also</i> MVLM
MVJI	Amoeboid
MVJM	Muscular
MVJP	Growth. <i>See also</i> MVX
MVJS	Sensation
MVJT	Response to stimuli. Irritability. <i>See also</i> MVLX
MVJU	Weber's law
MVJV	Fechner's law
MVJX	Reaction
MVJZ	Production of light, heat and electricity
MVK	Cytology. Cell-theory. Microbiology
MVL	Protoplasm. Cytoplasm
MVLA	Chemical composition
MVLB	Structure. Organization
MVLC	Speculative theories

MVLD	Micromeric (Micromerism)
	Arrange alphabetically, as:
MVLDA	Darwin (Gemmules)
MVLDD	De Vories (Pangens)
MVLDN	Naegli (Micellae)
MVLDS	Spencer (Physiological units)
MVLE	Other
MVLED	Delage's machine theory
MVLEL	LeDantec's theory of chemism
MVLEV	Verworn's biogen hypothesis
MVLF	Empirical theories
MVLG	Monomorphic
MVLGA	Alveolar (<i>Bluetschli</i>)
MVLGF	Filar (Flemming)
MVLGG	Granular (Altmann)
MVLH	Polymorphic
MVLI	Protoplasmic mechanics
MVLK	Physiological properties
MVLM	Motility. Movement. <i>See also</i> MVJH
MVLMMA	Amoeboid
MVLMC	Ciliary
MVLN	Inter-cellular motion
MVLO	Rotation
MVLP	Streaming. Circulation
MVLQ	Orientation movement
MVLS	Nutrition
MVLT	Metabolic processes
MVLU	Waste products
MVLV	Irritability. Contractility

MVLW	Mechanical stimuli
MVLWA	Light
MVLWH	Heat
MVLWL	Electricity
MVLWT	Chemotaxis
MVLX	Hydrotropism
	Reproduction. <i>See</i> MYP
MVM	Cell structure
	Cytoplasm. <i>See</i> MVL
MVN	Nucleus. "Germinal vesicle"
MVNC	Nuclear membrane
MVND	Linin
MVNE	Chromatin. "Nucleoli." Idioplasm.
	<i>See also</i> MXVB
MVNI	Nuclear sap
MVNJ	Multinucleate cells
MVNK	Plastids
MVNM	Chromatophores
MVNO	Chloroplasts
MVNP	Leucoplasts
MVNQ	Chromoplasts
MVNS	Vacuole
MVNT	Archoplasma. Aster
MVNV	Centrosome. Centrosphere. Blepharoplast
MVNX	<i>Other cell contents</i>
MVNY	Reserve material
MVO	Physical properties
MVOA	Osmosis
MVOI	Turgescence

MVP	Cell division. (Cleavage. Segmentation)
MVPA	Nuclear division
MVPC	Chromosomes
MVPS	Spindle
MVPV	Mid-body. Cell-plate
MVQ	Mitosis. (Indirect division. Karyofcineses)
MVQA	Prophase
MVQB	Metaphase
MVQC	Anaphase
MVQD	Telophase
MVQG	Pleuripolar mitosis
MVQH	Amitosis. (Direct division. Fragmentation)
MVQJ	Free cell formation
MVQL	Formation of sexual cells (Gametes) Gametogeny
MVQM	Spermatogenesis
MVQN	Spermatocyte sperm
MVQO	Oogenenesis
MVOP	Oocyte. Oosphere
MVQR	Maturation of the ovum
MVQS	Polar bodies
MVQU	Reduction divisions
MVQV	Heterotypic mitosis
MVQW	Homotypic mitosis
MVR	Cell growth
MVRC	Cytomorphosis
MVS	Reproduction. Embryology
MVSA	Asexual
MVSFA	Fission. Gemmation. (Budding)
MVSAS	Sporulation

MVSB	Sexual. Fertilization
MVSC	Conjugation. Zygoſis
MVSD	Heteropolar mitoſis. (<i>Schüadin</i>)
MVSE	Spermatization
MVSF	Irrégularities
MVSG	Double fertilization. Diſpermy
MVSH	Heterogenesis. <i>See also</i> ODD. Not to be confused with MYT
MVSI	Parthenogenesis. Apogamy
MVSJ	Geneageueſis
MVSK	Alternating generations
MVSN	Artificial fertilization. Better in MVWM
MVSO	Apomixis
MVSP	Earliest theories and investigation
MVSQ	Harvey
MVSR	Malpighi
MVST	Predelineation (Preformation) theory
MVSU	Incaſement theory
MVSUA	Animalculiſts (Spermists)
MVSUO	Ovuliſts (Oviſts)
MVSV	Epigeneſis
MVSW	Wolff
MVT	Moderu embryology
MVTA	Von Baer
MVTC	Reichert
MVTE	Kolliker
MVTG	Kovalevsky
MVTJ	Balfour
	Cell theory. <i>See</i> MVK
MVTR	Germ-layer theory. (<i>Wolff. Parker</i>)

	Germinal continuity. <i>See</i> MXD
MVTU	Recapitulation theory. <i>See also</i> MVXH
MVTV	Von Baer's law
MVTW	Germinal areas. Germinal localization
MVTX	Organogenetic areas (<i>His</i>)
MVU	Morphological embryology
MVUA	Cleavage
MVUB	Holoblastic
MVUC	Meroblastic
MVUD	Blastomeres
MVUE	Blastulation. Blastula
MVUF	Formation of the blastoderm (<i>Germinal layer</i>)
MVUG	Ectoderm
MVUH	Endoderm
MVUI	Mesoderm
MVUJ	Somatopleure
MVUK	Splanchnopleure
MVUM	Gastrulation. Gastrula
MVUN	Gastraea theory
MVUO	Formation of the nervous system
MVUP	Central
MVUQ	Peripheral
MVUR	Development of the tissues, etc.
MVUT	Development of organs
MVUV	Development of reproductive system
MVUX	Correlation of reproductive system and organs
MVUY	Sex differentiation. Origin of sexual characters
MVUZ	Determination of sex
	Inheritance of sex. <i>See</i> MXFM

MVV	Embryological measurement methods
MVVK	Kainogenesis (Mehnert)
MVW	Experimental embryology (Morphogenesis. Developmental Mechanics. Bio-mechanics)
MVWA	Isolation of the Clastomeres
MVWB	Experiments on the development of the egg
MVWC	Pressure. Agitation
MVWD	Modification of temperature
MVWE	Chemical reagents
MVWF	Experiments with radium
MVWG	Alteration of the medium
MVWI	Mutilation. Grafting
MVWL	Regulation. Self-regulation. Regeneration
MVWM	Artificial fertilization
MVWN	Work of individual investigators
MVWP	Driesch
MVWS	Loeb
MVVV	Schultz and Hertwig
MVX	Development. Post-embryonic development
MVXA	Physiology of development. <i>See also</i> MVW
MVXB	Formative stimuli
MVXC	Conditions of differentiation
MVXF	Self-differentiation
MVXH	Law of acceleration. Earlier inheritance. (<i>Darwin</i>)
MVXI	Autogenetic. (<i>Haeckel</i> .)
MVXJ	Precocious segregation. (<i>Lankester</i>)
MVXM	Theory of abbreviations. "Short cuts"
MVXN	Heterochrony. (<i>Haeckel</i>)
MVXO	Excess of development

MVXP	Aplasy
MVXQ	Suppression of parts
MVXR	Coalescence of parts
MVXS	Regeneration of lost parts. <i>See also</i> MVWL, ODR
MVXU	Degeneration (Ontogenetic) <i>See also</i> MXY
MVXV	Parasitism. <i>See also</i> NFP, OEF
MVXW	Arrest of development. Super-larvation
MVXY	Law of decay (<i>Cope. Hyatt</i>) Retrograde development
MVXZ	Senescence. Death

MVY Life. Vital phenomena. Living matter

MVYA	Bio-physics. Theories of life
MVYB	Mechanical theory. Physico-chemical theories
MVYE	Vitalism. Neo-vitalism
MVYF	Bathmism. (Growth force). (<i>Cope.</i>) <i>See also</i> MYLM, MYQC
MVYG	Genetic energy (<i>Williams</i>) Self-adaptation (<i>Henslow</i>) <i>See</i> MXWN
MVYI	Direction (<i>Eimes</i>)
MVYK	Directive force
MVYM	Vital principle (<i>Driesch</i>)
MVYN	Vital substance (<i>Schneider</i>)
MVYS	Biogenesis. Origin of life
MVYT	Abiogenesis. (Spontaneous generation. Archebiosis)
MVYU	Special creation
MVYV	Evolution. Books generally in MW and MY Developmental mechanics. <i>See</i> MVW

MW Genetic biology. Organic evolution

MWA	Ontogeny. Bionomics. <i>See also</i> OE
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MWB	Selection and preservation. <i>Or in MYES. Better here</i>
MWC	Mutual relations
MWD	Mimetic resemblance. Mimicry. Coloration
MWDC	Cryptic
MWDF	Protective colors. (Procryptic)
MWDI	Aggressive colors. (Anticryptic)
MWDL	<i>Pseudosematic</i>
MWDP	Protective mimicry. (Pseudaposematic)
MWDR	Aggressive mimicry. (Pseudepisematic) (Alluring colors. Batesian mimicry)
MWDS	<i>Sematic</i>
MWDW	Warning colors. (Aposematic)
MWDY	Warning colors in different species. (Muellerian mimicry)
MWE	Recognition markings. Signaling colors. (Epise- matic)
MWF	Courtship colors. (Epigamatic)
MWG	Sexual selection. (Selective mating)
MWGA	Endogamic mating
MWGE	Preferential (Apolegamic) mating
MWGI	Assortive (Homogamic) mating
MWGO	Heterogamic mating
MWH	Relations to environment (Hexiology) <i>See also NF, OEX</i>
MWI	Inorganic environment. <i>See also MCYP, MCVT</i>
MWJ	Plants
MWK	Animals
MWL	Organic environment
MWM	Plants
MWN	Animals
MWO	Struggle for existence. <i>Or in EVEL. Better here</i>

MWP	Cessation of selection. Panmixia
MWQ	Accommodation. (Functional adjustment)
MWQA	Acclimatization
MWQE	Naturalization
MWQI	Equilibrium. Balance
MWR	Distribution of plants and animals. Books generally in NH, OGA
MWS	Isolation. Segregation
MWSA	Indiscriminate (Apogamy.) Separate breeding (<i>Gulick</i>)
MWSH	Discriminate (Homogamy). Segregate breeding (<i>Gulick</i>)
MWSM	Accumulative (Intensive) (<i>Gulick</i>). Amixia (<i>Weismann</i>)
MWSR	By selection (Restricted natural selection)
MWSU	By elimination (Darwin's natural selection). <i>See also</i> MYE
MWSW	Geographical
MWT	Physiological. Sexual
MWTA	Differential fertility
MWTE	Sterility. Infertility. <i>See also</i> MXFN
MWTI	Selective sterility
MWTJ	Mechanical selection (<i>K. Jordan</i>)
MWTP	Physiological selection (<i>Romanes</i>)
MWTS	Selective association (<i>Wallace</i>) Sexual selection. <i>See</i> MWG
MWU	Social life. <i>See also</i> OEH
MWUA	Symbiosis. Commensalism
MWUC	Colonies
MWV	Phylogeny. Origin and descent. <i>Descendenzlehre</i>
MWW	Phyletic relationship. Taxonomy

MWX	Species. Varieties
MWY	Mathematical treatment
MWZ	Factors of evolution. General works only
Mx	Heredity. Inheritance
MXA	Germinal elements
MXB	Physical basis
MXBA	Pangensis. Pangens. (Gemmules.)
MXBB	Brook's modification
MXBD	DeVries modification
MXBF	Formative substance (<i>Loeb</i>)
MXBH	Enzymes (<i>Driesch</i>)
MXBM	Mutual influence of cells
MXBQ	Theory of nuclear distribution
MXBV	Idioplasm. <i>See also</i> Mxc
Mxc	Germ-plasm theory (Weismann). <i>See also</i> MXD
MXCD	Determinants. Biophors
MXCI	Ids. Idants
MXD	Doctrine of germinal continuity
MXDC	Cell succession
MXDE	Work of Jaeger
MXDH	Work of Hertwig
MXDN	Work of Nussbaum
MXDV	Amphimixis
MXDW	Experimental study
MXE	Germinal selection (Weismann)
MXEA	Intraselection (Roux) Histonal selection
MXEH	Hertwig's view
MXEN	Nageli's theory. <i>See also</i> MYQN
MXER	Heredity and development. Causes of differentiation
MXET	Mathematical treatment

Mx _F	Laws of ancestral inheritance
Mx _{FB}	Blended
Mx _{FC}	Exclusive
Mx _{FD}	Particular
Mx _{FI}	Homochronous heredity
Mx _{FJ}	Prepotency
Mx _{FK}	Telegony
	Deviation from normal law. <i>See</i> Mx _M
Mx _{FM}	Heredity of sex
Mx _{FN}	Fertility. Sterility. <i>See also</i> Mw _{TE} , Mx _{FR}
Mx _{FO}	Cross sterility
Mx _{FP}	Inheritance of fertility
Mx _{FQ}	Net (effective) fertility
Mx _{FR}	Reproductive (Genetic) selection (<i>Pearson</i>)
Mx _{FT}	Color heredity
Mx _G	Transmission of acquired characters
Mx _{GA}	Normal
Mx _{GE}	Abnormal (Epigenetic)
Mx _{GI}	Use-inheritance. Kinetogenesis. <i>See also</i> M _{YP}
Mx _{GR}	Reversion (Atavism)
Mx _H	Empirical study of heredity
Mx _{HB}	Biometric and statistical methods
Mx _{HD}	Mendel's experiments. Alternative inheritance. Mendelism
Mx _{HG}	Gametic segregation
Mx _{HK}	Law of dominance
Mx _I	Hybridity. Cross-breeding. (Interbreeding. <i>See also</i> O _{EY})
Mx _J	Artificial hybrids. Experimental methods
Mx _K	Plants

MxKB	Work of Burbank
	Work of Mendel. <i>See</i> MxHD
MxL	Animals
MxLM	Morgan's experiments
MxLP	Pflueger's experiments
MxM	Variation. Deviation. <i>See also</i> MxT
MxN	Congenital variation and acquired characters. <i>See also</i> MxTA
MxNC	Genetic (Congenital) variation
MxNK	Acquired variation. <i>See also</i> MxG
MxO	Continuous (Fluctuating. Normal)
MxP	Discontinuous (Definite. Abnormal). Mutation (Sports). <i>See also</i> MxT
MxPA	Atavistic
MxPD	Degressive
MxPG	Progressive
MxPK	Retrogressive
MxPN	Transgressive
MxPT	Determinate
MxQ	Coincident. <i>See also</i> MxJ
MxQC	Correlated
MxQM	Meristic
MxQN	Homoesis (<i>Batson</i>) Metamorphosis (<i>Masters</i>)
MxQP	Substantive
MxQR	Seasonal
MxQS	Sexual
MxQX	Laws of variation
MxR	Mathematical treatment
MxRE	Law of error. Probability
MxS	Biometrics

MxSA	Statistical methods
MxSB	<i>Integral variation</i>
MxSG	<i>Graduated variation</i>
MxSQ	Quantitative measurements
MxST	Experimental treatment. Experimental variation Variation under domestication. <i>See</i> Mjx
MxT	Modification. Ontogenetic variation
MxTA	Acquired characters. Acquired variation. <i>See also</i> MxN
MxTE	Modification directly by environment
MxTI	Modification indirectly by use and disuse
MxTO	Mutilations
MxTU	Plasticity
MxU } MxV }	Inheritance of acquired characters. <i>See</i> MxG Particular cases of variation If put in Biology arrange according to the grouping in Nj and OG
MxW	Adaptation. Structural adjustment. <i>See also</i> OEW
MxWA	Through variation (Hereditary)
MxWD	Through modification (Acquired)
MxWH	Co-adaptation
MxWK	Convergence. Parallelism. <i>See also</i> MYR, OEWV
MxWN	Self-adaptation (<i>Henslow</i>) <i>See also</i> MYKH
MxWR	Adaptation and regeneration
Mxx	Regression
Mxy	Degeneration (Phylogenetic.) <i>See also</i> Mvxu
Mxz	Extinction
My	Origin of species. Particular evolutionary theories
MyA	Earlier and general theories
MyAB	Buffon

MYAD	E. Darwin
MYAP	Prichard
MYAS	Spencer
MYC	Lamarck's theory. Lamarckism. <i>See also</i> MYL, MYN
MYD	Darwinism (Darwin. Wallace.) <i>See also</i> MYH
MYDA	Anti-Darwiniana. (General works.) This does not include works advocating some particular theory supplementary, or antagonistic to Darwinism.
MYE	Natural selection. Variation and heredity. <i>See</i> Mx, Mxm
MYEF	Excess. Overproduction.
MYEL	Struggle for existence. Better in Mwo
MYES	Survival. Individual selection. Better in Mwb Sexual selection. <i>See</i> MWG
MYF	Purposive (Artificial) selection (Plants and animals under domestication.)
MYG	<i>Post-Darwinian theories.</i> In small libraries this will include all theories from MYH to MYS.
MYH	Neo-Darwinism (Ultra-Darwinism.)
MYHA	Wallace's exposition.
MYHM	Weismannism
MYHR	Retrogressive development. Evolution by atrophy. <i>See also</i> MWP

MVI	Polytypic (Divergent) evolution
MVJ	Orthoplasy. Organic (Indirect) selection <i>See also</i> MXQ
MVK	Anti-selection school.
MVKH	Henslow
MVKS	Sachs
MVL	Neo Lamarckism
MVLA	Inherited affects of use and disease. <i>See also</i> MXTI
MVLM	Bathmic evolution
MVM	Individual theories
MVMB	Bailey ("Survival of the unlike")
MVMG	Geddes
MVMH	Hyatt
MVMO	Osborne
MVMP	Packard
MVN	Orthogenetic evolution
MVNO	Orthoselection
MVO	Orthogenesis
MVOE	Eimer
MVOG	Giard
MVOP	Perrier
MVP	Kinetogenesis. Dynamical evolution (Mechanico physical theories) <i>See also</i> MXGI
MVQ	Individual exposition
MVQC	Cope

MYQN	Nageli
MYQR	Rider
MYR	Polyphyletic evolution. Convergence. <i>See also Mxwk</i>
MYS	Metakinesis (Jackel)
MYT	Heterogenesis. Mutation theory. <i>See also Mxp</i>
MYU	Work of De Vries
MYV	Experimental evolution
MYVD	De Varigny
MYVP	Plateau
MYVS	Semper Evolution of man. <i>See Anthropology</i>
MYW	Evolution and philosophy. Better BGE, B, alternative arr.
MYWA	Mental evolution. Better in BICA.

BOTANY

Classification made by Mr. Richard Bliss, Librarian of the Redwood Library, Newport, R. I.

SYNOPSIS

- General works N
- Systematic botany NB
 - Histology NC
 - Morphology ND
 - Physiology NE
 - Oecology NF
 - Geographic Oecology NG
- Geographical distribution NH, NI, NK
 - Plant biology NIZ
- Phytography (Descriptive botany) NJ
 - Classification NM
 - Nomenclature NMX
 - Protophyta NN
 - Thallophyta NO
 - Archigonatae NPN
 - Spermatophyta NRZ
 - Sylvas NY
 - Phytopathology NYZ
- Economic and Medical botany NZ

Preliminaries and Generalities

- N·1 Study of botany
- N·2 Bibliography of botany
- N·3 Biography of botanists
- N·4 History
- N·5 Dictionaries
- N·6 Tables, Handbooks, etc.*
- N·7 Periodicals
- N·8 Societies†
- N·9 Collections
- N Comprehensive and miscellaneous works
- NA Botanical gardens. Arboreta
With local list
- NAH Herbaria, Museums
With local list
- NAL Laboratories
With local list
- NAM Laboratory manuals
- NAP Collecting and preserving. Botanizing
Subdivisions as in MEB or OAB if needed
- NAR Botanical miscellanies
- NAS Plant lore *See also* BUB
- NAT Language of flowers. Floral emblems
- NAU National flowers

*When "Handbook" or "Manual" merely means a short general treatise on botany it goes in N
†A society publication relating to one topic of botany goes under its appropriate head

NB Systematic botany. Phytology. Life of plants

The anatomy and physiology of any particular group takes the group letter in addition to NB, as: Physiology of ferns—NBQ

NC Histology (Internal morphology)

- NCA Plant cell
- NCB Cytoplasm. Protoplasm *See also* Biology
- NCC Chemical composition
- NCD Protoplasmic inclusions (Reserve and waste products)
- Arranged alphabetically as:
- NCDA Albumen
- NCDF Fats and oils
- NCDS Starch
- NCDT Sugar
- NCE Hyaloplasm (Ectoplasm)
- NCF Microsomes (Metaplasm)
- NCG Vacuoles
- NCGC Cell sap
- NCGH Coloring matter. Anthocyanin. *See also* NIKO
- NCGT Tonoplast
- NCH Nucleus
- NCIA Nucleoplasm (Karyoplasm, Nuclein)
- NCIC Nuclear cavity
- NCIS Blepharoplast
- NCI Plastids (Chromatophores)
- NCIC Chloroplasts
- NCIE Pyrenoids
- NCIH Chromoplasts
- NCIL Leucoplasts. Starch formers
- NCJ Centrosomes
- NCK Multinucleate cells
- NCL Cell wall *See also* NCN
- NCLC Cellulose
- NCLE Plasmolysis
- NCLG Thickening

NCLI	Incrustation. Cryoliths
NCLK	Chemical changes <i>See also</i> NCP
NCLM	Gelatnization
NCLP	Lignification
NCLS	Suberfication (Cuterization)
NCLT	Mineralization
NCM	Cell formation. Cell division <i>See also</i> Biology
NCMA	Direct nuclear (Amitotic) division (Fragmentation, Fission)
NCMB	Indirect (Mitotic) division (Mitosis, Karyokinesis)
NCMC	Reduction division
NCMD	Heterotypic
NCME	Homotypic
NCML	Cell division
NCMM	Multicellular formation
NCMN	Free cell formation
NCMO	Budding
NCMQ	Zoöspores
NCMR	Conjugation <i>See also</i> NEU
NCMS	Gamete
NCMT	Ovum
NCMU	Spermatozoid
NCMV	Zygote
NCMX	Cell fusions
NCN	Tissues. Cell aggregates <i>See also</i> NCU
NCO	Intercellular space
NCOA	Schizogenic
NCOE	Lysigenic
NCP	Parenchyma <i>See also</i> NCLK
NCPA	Sclerotic
NCFE	Lignified
NCPI	Suberous (Cork)
NCQ	Vascular
NCQE	Epiderma
NCQH	Hypoderma
NCQI	Prosenchyma (wood fiber)
NCQJ	Collenchyma
NCQK	Sclerenchyma

NCQN	Vascular bundles
NCQO	Fibrous
NCQT	Tracheary
NCR	Conductive (other than tracheary)
NCRF	Sieve-tubes
NCRL	Lactiferous Ducts. Latex
NCS	Special secretory cells
NCSI	Idioblasts, Sclerids
NCSM	Mucilage cells
NCSO	Oil cells
NCT	Undifferentiated tissue (Meristem. Embryonic tissue)
NCTV	Promeristem
NCU	Tissue systems
NCUA	<i>Primary</i>
NCV	Epidermal (Tegumentary)
NCVE	Cuticle
NCVE	Epidermal cells. Hydathodes
NCVG	Stomata
NCVI	Water pores
NCVJ	Trichomes (Hairs. Bristles) <i>See also</i> N D G H
NCVP	Emergences (Prickles)
NCVQ	Secreting glands
NCVR	Colleters
NCVS	Digestive glands
NCVT	Inter-cellular secretion cavities
NCVV	Velamen radicum
NCW	Vascular bundle system (Fibro-vascular system)
NCWA	Tracheal tissue (Xylem)
NCWE	Sieve-tissue (Phloem. Bast)
NCWI	Cambium tissue
NCX	Fundamental system
NCXC	Cortex
NCXD	Medulla (Pith)
NCXE	Secondary (Waste) deposits
NCXN	Distribution of primary tissues
NCXO	Stem
NCXR	Root
NCXT	Leaf. Floral leaves
NCXZ	<i>Secondary</i>
NCY	Cambium layer

NCYA	Fascicular
NCYC	Interfascicular
NCYE	Annual rings
NCYH	Duramen (Heart-wood)
NCYK	Alburnum (Sap-wood)
NCVN	Secondary growth
NCYP	Periderm
NCYQ	Phellogen (Cork-cambium)
NCYR	Bark
NCYS	Absciss layer. Fall of the leaf
NCYT	Callus
NCYU	Burrs
NCZ	Histology of particular plant forms. Subdivide as in NJ

ND Morphology. Plant body

NDA	General morphology
NDAC	Segmentation of plant-body <i>See also</i> NDE
NDAD	Thallus. Thallophytes. <i>See also</i> No
NDAE	Transition to Cormus
NDAF	Cormus. Cormophytes <i>See also</i> NFN
NDAN	Unicellular plants
NDAO	Colonies
NDAR	Filamentous plants
NDAV	Vascular plants <i>See also</i> NQ
NDB	Symmetry
NDBA	Radial (Multilateral)
NDBB	Bilateral
NDBC	Isobilateral
NDBG	Zygomorphic. Dorsiventral
NDBM	Arrangement of members
NDBN	Actinomorphic
NDC	Phyllotaxis
NDCI	Anthotaxis (Inflorescence)
NDCK	Zygomorphic
NDCR	Asymmetrical
NDD	Branch systems
NDDC	Dichotomous
NDD E	Lateral branching
NDDF	Monopodial
NDDH	Cymosé
NDDI	Sympodial

NDDN	Adventitious. Suckers
NDDV	Cohesion and adhesion
NDDZ	Structural deviation. Teratology (Malformations)
NDE	Special morphology
NDF	Thallus
NDFB	Thalloid shoot
NDFD	Transition to leafy shoot
NDFL	Leafy shoot <i>See also</i> NDH
NDFM	Growing point
NDFN	Bud
NDFR	Resting buds. Bud scales
NDFS	Leaf buds. Prefoliation (Vernation)
NDFT	Flower buds. Prefloration (Aestivation)
NDFV	Adventitious buds
NDG	Root (Hypocotyl). Epitropism
NDGA	Primary
NDGD	Adventitious. Secondary
NDGF	Root cap. Ohlert's experiment
NDGH	Trichomes (Root-hairs)
NDGK	Root tendrils
NDGM	Metamorphosed roots
NDGP	Aerial roots. Epiphytes <i>See also</i> NFR
NDGS	Suction roots. Haustoria (Suckers)
NDGT	Parasites
NDGU	Saprophytes <i>See also</i> NFB
NDGW	Climbing roots
NDH	Stem (Cauloma, Hypocotyl)
NDHA	Structure
NDHE	Metamorphosed stem
NDHF	Climbing
NDHI	Tendrils
NDHQ	Bulb
NDHR	Tuber
NDHT	Thorns. Spines
NDHV	Xerophytic stems <i>See also</i> NGKE
NDHW	Phyllocladia (Foliage stems)
NDHX	Cladophyl (Cladode. Leaf-stem)
NDI	Leaf (Foliage leaf)
NDIA	Leaf base
NDIG	Leaf stalk (Petiole)
NDIH	Phyllodia
NDIJ	Leaf blade

NDIK	Venation
NDIL	Stomata
NDIN	Glands. Water-glands
—	Vernation <i>See</i> NDFS
NDIS	Compound leaves
NDIU	Heterophylly
NDIW	Symmetry. Asymmetry' <i>See also</i> NDB
—	Phyllotaxis <i>See</i> NDC
NDJ	Modified leaves
NDJE	Leaf spines
NDJK	Leaf tendrils
NDJN	Scale leaves
—	Floral leaves <i>See</i> NDK
NDJS	Sporophylis
NDJU	Ascidia (Pitchers)
NDJV	Insect traps <i>See also</i> NFI

NDK Flower (Floral leaf)

NDKA	Perianth
NDKB	Calyx (Sepals)
NDKC	Corolla (Petals)
NDKE	Androecium (Stamens)
NDKI	Pollen
NDKN	Gynoecium. (Pistils)
NDKO	Ovary
NDKS	Nectary
NDKT	Torus
—	Anthotaxy <i>See</i> NDCI
NDKV	Symmetry <i>See also</i> NDB, NDBM
NDKW	Actinomorphic
NDKX	Zygomorphic
—	Prefloration (Aestivation) <i>See</i> NDEI
NDL	Floral modification
NDLA	Irregularity
NDLB	Imperfection. Suppression
NDLH	Adnation
NDLK	Chorisis (Deduplication)
NDLM	Multiplication of parts
NDLT	Enations

NDM Reproductive organs. Reproduction

For the sake of convenience the physiology of reproduction—so far, at least, as refers to the initial processes—is included in Morphology with the description of the organs concerned.

NDMA	Asexual (Blastemal) reproduction
NDMB	Vegetative multiplication. Budding
NDN	Spore reproduction
NDNA	Sporophyte
NDNC	Spores. Gonidia

NDNE	Zoospores. Zoogonidia
NDNH	Homosporous reproduction
NDNK	Heterosporous reproduction
NDNS	Sporangia. Gonidangia
NDNV	Gonidlophore
NDNW	Sporophore
NDNX	Sporophyl
NDNY	Hypsophyl
NDO	Sexual reproduction
NDOA	Gametophyte
NDOB	Gametes
NDOC	Isogamous. Isogamy
NDOD	Heterogamous. Heterogamy
NDOE	Oospore
NDOF	Spermatozoid
NDOG	Gametangia
NDOH	Oogonium (Archegonium)
NGOI	Antheridium
NDOK	Pollinodium
NDOM	Procarp (Archicarp)
NDOP	Gametophore
NDOR	Archegoniophore
NDOS	Antheridiphore
NDOT	Gametophyl
NDOU	Conjugation
NDOV	Zygophore
NDP	Pollination. Fertilization
NDPA	Autogamy Self-fertilization
NDPC	Cleistogamy
NDR	Allogamy (Cross fertilization. Inter-crossing)
NDRA	Dichogamy
NDRB	Heterandry
NDRG	Synacmy (Synanthesis)
NDRI	Dimorphism (Heterostyly)
NDRJ	Trimorphism
NDRL	Polymorphism
NDRM	Monoecism
NDRO	Dioecism
NDRP	Polygamy
NDRU	Anemophilous flowers (Wind-fertilized)
NDT	Entomophilous flowers (Insect-fertilized)
NDTA	Irregularity
NDTE	Influence of color
NDTG	Guiding lines (Sprengel)
NDTI	Influence of odor
NDTL	Hydrophilous plants

NDTN	Nocturnal flowers
NDTO	Ornithophilous flowers (Bird fertilized)
NDU	Mechanical contrivances
NDX	Fruit. Seed
NDXA	Pericarp
NDXE	External accessions
NDXG	Simple fruits
NDXI	Aggregate fruits
NDXJ	Accessory (Anthocarpous) fruits
NDXM	Multiple fruits
NDY	Dry fruits
NDYD	Dehiscent (Pod. Legume. Pyxis)
NDYI	Indehiscent (Samara. Achena. Nut)
NDZ	Fleshy fruits
NDZD	Stone fruits (Drupe)
NDZP	Baccate fruits (Pome. Berry)
NE	Physiology
NEA	Cell and cellular tissue
NEAI	Imbibition
NEAO	Osmotic pressure. Diosmosis <i>See also</i> NEBA
NEB	Stability of the plant body
NEBA	Turgor. Turgidity
NEBI	Tension of tissues
NEBM	Mechanical tissues (Stereome)
NEC	Nutrition. Food
NED	Absorption
NEDA	Mechanics of absorption
NEDG	Gases <i>See also</i> NEF
NEDH	Oxygen
NEDI	Carbon dioxide
NEDJ	Nitrogen
NEDK	Ammonia
NEDS	Water
NEDT	Translocation of substances <i>See also</i> NEE
NEDV	Movement of gases
NEE	Distribution of water Flow of sap
NEEA	Root pressure
NEEF	Periodicity of flow
NEEI	Transpiration
NEF	Assimilation
NEFA	Autotropism. Heterotropism. Mixotropism

NEFF	Photosynthesis. Absorption of carbon
NEFG	Function of chlorophyll
NEFH	Accessory pigments
NEFJ	Products of Photosynthesis
NEFL	Chemosynthetic assimilation of carbon dioxide
NEFO	Assimilation of oxygen and hydrogen
NEFP	Assimilation of nitrogen
NEFS	Assimilation of organic food <i>See also</i> NFP
—	Respiration <i>See</i> NEJN
NEG	Metabolism
NEH	Organic compounds. Physiological chemistry <i>See also</i> OCO
NEHA	Protoids
NEHE	Enzymes (Ferments)
NEHG	Toxins and antitoxins
NEHJ	Pigments
NEHL	Carbohydrates. Glucosides, etc.
NEHO	Organic acids
NEI	Distribution of organic substances
NEIR	Reserve material
NEJ	Metabolic processes
NEJC	Constructive metabolism
NEJD	Non-nitrogenous substances
NEJF	Nitrogenous substances
—	Function of chlorophyll <i>See</i> NEFG
NEJK	Destructive metabolism
NEJL	Fermentation? (Zy mosis)
NEJN	Respiration
NEJO	Intramolecular
NEJQ	Anaerobic
NEJR	Effect of pressure
NEJT	Production of heat
NEJV	Movement of gases <i>See also</i> NEDV
NEJY	Action of bacteria
NEJZ	Phosphorescence. Light emitting plants
NEK	Metabolic products
NEKA	Plastic
NEKB	Aplastic
NEKH	Excretion
NEKI	Waste products
NEKM	Aromatic substances
NEKO	Coloring matters
NEKT	Toxic bodies
NEL	Supply and expenditure of energy
NELA	Influence of light
NELE	Influence of temperature
NELI	Dissipation of energy
—	Growth <i>See</i> NEM
—	Movement <i>See</i> NEF

NELO Evolution of light, heat, and electricity

NEM Growth

NE_N Mechanics *See also* NES
NE_O Tension
NE_{OA} Influence on cellular growth
NE_{OE} Pressure. Traction
NE_P Embryonal development. Formation of new organs
NE_{PA} Germination. Seedlings
NE_{PB} Phase of elongation *See also* NERV
NE_{PC} External influences on growth
NE_{PD} Mechanical force
NE_{PE} Light
NE_{PF} Heat
NE_{PG} Electricity
NE_{PH} Moisture
NE_{PI} Poisons
NE_{PL} Artificial metamorphism
NE_{PM} Rate of growth. Variation (Heterauxesis)
NE_{PN} Nutation *See also* NERV
NE_{PS} Periodicity
NE_{PT} Diurnal
NE_{PV} Winter rest
— Action of gravity *See* NESG

NEQ Irritability and movement

NEQA Stimuli

Mechanical
Contact
Pressure
Shock
Photic
Tonic. Phototonus
Auxanometer
Etiolation
Stimulative
Heliotropism *See also* NESA
Thermic
Tonic. Thermotonus
Stimulative
Thermotropism *See also* NESK
Electric
Electrotropism *See also* NESL
Chemic
Transmission of stimuli

NER Movement

NERA Naked protoplasm

NERC	Amebold. Streaming <i>See also</i> Biology
NERF	Phototactic (Heliotactic)
NERF	Chemotactic
NERI	Protoplasm with cell walls
NERJ	Circulation
NERK	Rotation
NERL	Orientation
NERP	Hygroscopic movement
NERS	Movements of growth
NERT	Torsion
NERV	Elongation <i>See also</i> NEPB
NERW	Circumnutation. Revolving nutation <i>See also</i> NESGL
NES	Mechanism of growth movements
NESA	Heliotropism (Apotropism) <i>See also</i> NEQM
NESC	Transverse
NESG	Geotropism
NESGD	Diageotropism
NESGL	Lateral geotropism. Stem climbing <i>See also</i> NERW
NESH	Curvature of lignified tissues
NESJ	Hydrotropism
NESK	Thermotropism
NESL	Galvanotropism
NESN	Somatotropism
NESP	Rheotropism
NESR	Aerotropism
NEST	Traumatropism
NESV	Effect of slow rotation. Klinostat
NESX	Variation of light and temperature
NET	Movement of variation. Turgor changes (Periodic movement)
NETA	Autonomic variation
NETL	Paratonic variation
NETN	Nyctotropic movement (Sleep of plants)
NETS	Sensitive organs
NEU	Reproduction <i>See also</i> NCMR. NDN
	For reproduction in various groups of plants, use the group letters with NEU
NEV	Vegetative (Asexual. Blastemal)
NEVB	Budding
NEVS	Spore-formation
NEW	Sexual (Parturital)
NEWF	Fertilization. Pollination <i>See also</i> NDP
—	Self and cross fertilization <i>See</i> NDPA, NDR

NEX	Hybridization. Cross-breeding <i>See also</i> Biology
NEXA	Mutation. Sports
NEXP	Alternation of generations
NEY	Distribution of seeds
NEYA	Air currents
NEYE	Water transportation
NEYH	Special methods
NEYI	Animals
NEYM	Mechanical devices
NEYX	Germination

NF Oecology

NFA	Physiographic
NFB	Saprophytism. Saprophytes <i>See also</i> NDGU
NFC	Protection against drouth. Xerophytes. <i>See also</i> NOFD
NFD	Protection against cold
NFE	Protection against animals
NFH	Carnivorous plants. Insectivorous plants <i>See also</i> NDJV
NFL	Symbiosis
NFP	Parasitism. Parasites <i>See also</i> NDGT, NEFS
NFQ	Mycorhiza
NFR	Epiphytes (Air plants) <i>See also</i> NDGP
NFT	Myrmecophilism. Acrophilism
NFW	Locomotion. Migration <i>See also</i> NEY, NGE

NG Geographic

NGA	Phytographic regions
NGAD	DeCandolle's
NGAG	Griesbach's
NGAH	Humholdt's
NGC	Effects of climate
NGCA	Tropical
NGCE	Temperate
NGCI	Arctic
NGE	Intruded floras. Acclimatization
NGF	Climatic formations
NGFA	Woodland
NGFB	Grassland
NGFD	Desert <i>See also</i> NFC
NGG	Edaphic formations
NGH	Influence of telluric water
NGHA	Swamp vegetation. Marsh plants
NGHF	Halophytes
NGHM	Moors

NGJ	Open edaphic formations
NGJA	Rock plants
NGJD	Dune vegetation Beach plants
NGK	Prairie flora
NGKA	Mesophytic
NGKE	Xerophytic
—	Desert flora See NFC, NGFD
NGL	Mountain vegetation. Alpine plants
NGLC	Climatic factors
NGLK	Vertical zonation
NGM	Aquatic vegetation
NGN	Marine
NGG	Benthos
NGP	Plankton. With local list
NGR	Fresh water
NGS	Lakes
NGT	Benthos
NGU	Plankton. With local list
NGW	Rivers. Streams
NGZ	Snow and ice

NH Geographical distribution. Phytogeography. Local floras

For several reasons it seems best not to dissociate local floras from the cognate topics in Oecology. Mr. Cutter's plan, however, was to include Geographical distribution in Descriptive Botany. Hence provision has been made for its inclusion there (See NJ) for those who prefer to adopt this arrangement.

Small libraries may preferably use the Local List instead of the following subdivisions. Botanical libraries desiring a more minute subdivision will find it in Engler's Syllabus der Pflanzenfamilien (1907,) upon which the present arrangement is based. When used without the Local List NH will stand for general works on plant distribution.

NHA	Northern (Boreal) kingdom
NHAA	Arctic region
NHAN	Sub-arctic region
NHB	Middle European region
NHBA	Atlantis island ("Makaronesian" region)
NHC	Mediterranean region

NHD	Central Asiatic region	1100
NHE	Temperate East Asiatic region	1100
NHF	North American region	1100
NHG	Pacific region	1100
NHGC	Conifer province	1100
NHGM	Rocky Mountain province	1100
NHGP	Desert and prairie province	1100
NHH	Atlantic region	1100
NHHE	Lake province	1100
NHHM	Mississippi and Alleghany province	1100
NHHS	Southern Atlantic province	1100
NHI	Prairie province	1100
NHJ	Palaeotropical kingdom	1100
NHK	North-African and Indian desert region	1100
NHL	African forest and steppe region	1100
NHM	Southwest Capeland	1100
NHMA	South Atlantic islands	1100
NHN	Malagasy region	1100
NHO	Indian region	1100
NHP	Monsoon region	1100
	Tropical Himalaya, Malayan, Melanesian and Polynesian regions	1100
NHPE	East Indian and Southern Japan region	1100
NHQ	Sandwich Islands	1100
NHR	Central and Southern American Kingdom	1100
NHRM	Middle America (Xerophytic region)	1100
NHS	Tropical America	1100
NHT	Andean region	1100
NHTG	Galapagos Islands	1100
NHTJ	Juan Fernandez and Masofuera	1100
NHU	Austral (Palaeoceanic) kingdom	1100
NHV	South American austral-antarctic region	1100

NHVK	Kerguelen Island
NHW	New Zealand region
NHX	Australian region
NHXA	Tristan da Cunha, St. Pauls and Amsterdam islands
NHZ	Oceanic kingdom (principally Algae)
NHZA	Boreal region
NHZE	Tropical region
NHZI	Austral region

NI Local floras by phytographic divisions

Subdivide as in NN *et seq.* and use the local list, for the topography of each group, as:

NIOA532	Algae of the Baltic Sea;
NIPH21	Mushrooms of Australia;
NINR84	Ferns of New England;
NINS943	Conifers of Oregon

NIZ Plant biology (Origin of plants.)
General works only. For subdivisions see Biology.

NJ Phytography (Descriptive botany)

NK Geographical distribution. Phytogeography

Use the classification given under NH or the local list. Thus: NKA Northern (Boreal) kingdom, NKJ Palaeotropical kingdom, etc. See note under NH.

NL Local floras by phytogeographic divisions

Subdivide as in NN *et seq.*, and use the local list for the topography of each group, as: NLOA532 Algae of the Baltic Sea; NLPH21 Mushrooms of Australia, etc. See note to NH

NM	Classification. Taxonomy	216
NML	Linnean system	216
NMN	Natural system	216
NMX	Nomenclature	216
NN	Protophyta	218
NNA	Schizophyta <i>Fission fungi</i>	218
NNB	Schizomycetes. <i>Bacteria. See also MBV</i>	218
NNC	Eubacteria	218
NND	Bacteriaceae (<i>Bacterium, Bacillus</i>) <i>Rod bacteria</i>	218
NNE	Spirillaceae (<i>Spirillum</i>)	218
NNF	Chlamydobacteriaceae (<i>Cladothrix, etc</i>) <i>Iron bacteria</i>	218
NNG	Coccaceae (<i>Micrococcus, Streptococcus</i>)	218
NNH	Myxobacteriaceae	218
NNI	Thiobacteria <i>Sulphur bacteria</i>	218
NNJ	Beggiatoaceae	218
NNK	Rhodobacteriaceae <i>Purple bacteria</i>	218
NNL	Schizophyceae (<i>Cyanophyceae, Plectochromaceae</i>) <i>Blue green algae</i>	218
NNLC	Coccogoneae	218
NNLH	Hormogoneae	218
NNM	Myxomycetes <i>Or in OGH</i>	218
NNMA	Acrasiales	218
NNMP	Plasmodiophorales	218
NNO	Myxogasteres	218
NNOA	Ectosporeae	218
NNOE	Endosporeae	218
NNR	Flagellata <i>Or in OGS</i>	218

N [†] NRA	Pantostomatinales
NNRD	Distomatinales
NNRG	Protomastigales
NNRI	Chrysomonadales
NNRK	Cryptomonadales
NNRL	Chloromonadales
NNRN	Ruglenales
NNS	<i>Silicoflagellatae</i> Or in OGT
NNSP	<i>Siphonotestales</i>
NNST	<i>Stereotestales</i>
NNT	Peridinieae (Dinoflagellatae) Or in OGU
NNTG	Gymnodiniaceae
NNTM	Procentraceae
NNTP	Peridiniaceae
NNU	<i>Coccospheres. Rhabdospheres</i>
NNV	Diatomeae (Bacillariales). <i>Diatoms</i>
NNVC	Centricae
NNVF	Pennatae
NNW	Conjugatae. <i>Desmids</i>
NNX	Heterocontae (Conferva)
NNZ	Cryptogamia
No	Thallophyta
NOA	<i>Algae. Seaweeds</i>
NOC	Chlorophyceae. <i>Green algae</i>

NOD	Volvocales
NOE	Protococcales
NOF	Ulotrichales
NOG	Siphonocladiales
NOH	Siphonales
NOI	Charales <i>Stoneworts</i>
NOJ	Phaeophyceae <i>Brown algae</i>
NOK	Phaeosporeae
NOL	Cyclosporeae
NON	Dictyotales
NOR	Rhodophyceae (Florideae) <i>Red algae</i>
NOS	Bangiales
NOT	Florideae
NOTA	Nemalionales
NOTE	Gigartinales
NOTI	Rhodymeniales
NOTO	Cryptonemiales
NOV	Phycomycetes <i>Algae-fungi</i>
NOW	Zygomycetes
NOY	Oomycetes
NP	Eumycetes (Mycomycetes) <i>Fungi Mycology</i>
NPA	Ascomycetes
NPB	Hemiascineae
NPC	Euascineae
NPCA	Protoascineae <i>Yeast fungi, etc.</i>
NPCB	Protdiscineae
NPCF	Phacidineae
NPCG	Protocaliciaceae
NPCI	Pezizineae
NPCK	Helvellineae

N ^o PCL	Hysteriineae
NPCN	Tuberineae <i>Truffles</i>
NPCP	Plectascineae
NPCR	Perisporiineae
NPCT	Pyrenomycetinae
NPCV	Laboulbeniaceae

The following arrangement of Ascomycetes (Strasburger, 1908) may be used in place of the above, if preferred: Perisporiaceae NPA, Discomycetes NPD, Pyrenomycetes NPH, Tuberaceae NPK, Exoasci NPO, Saccharomycetes NPS, Laboulbeniaceae NPV

NPD	Basidiomycetes <i>See also</i> NPK
NPE	Hemibasidii <i>Smuts</i>
NPEG	Ustilagineae
NPEL	Tilletineae
NPF	Eubasidii
NPG	Protobasidiomycetes
NPGE	Uredineineae
NPGH	Auriculariineae <i>Rusts</i>
KPGL	Tremellineae
NPH	Autobasidiomycetes <i>Mushrooms</i>
NPHD	Dacryomycetinae
NPHF	Tulasnellinae
NPHK	Exobasidiineae
NPI	Hymenomycetinae (Hymenomycetes)
NPJ	<i>Gasteromycetes</i>
NPJA	Phallineae
NPJH	Hymenogastrineae
NPJL	Lycoperdineae
NPJN	Nidulariineae
NFJS	Sclerodermatineae

NPK	Fungi imperfecti	11
NPKA	Conidioformes	12
NPKC	Sphaeropsidales	17
NPKE	Melanconiales	2
NPKH	Hyphomycetes	
NPKM	Mycelioformes	
NPL	Lichenes <i>Lichens</i>	
NPLA	Ascolichenes (Discolichenes)	
NPLC	Coniocarpineae	
NPLG	Graphidineae	
NPLJ	Discocarpineae	
NPLP	Pyrenocarpineae	
NPLS	Basidiolichenes	
NPLT	Hymenolichenes	

NPM Archegoniatae (Cormophyta)

NPN	Bryophyta (Muscineae)	
NPO	Hepaticae <i>Liverworts</i>	
NPOA	Marchantiales	
NPOB	Riccieae	
NPOC	Corsineae	
NPOF	Marchantieae	
NPOH	Anthocerotales	
NPOJ	Jungermanniales	
NPOL	Anacrogynae	
NPON	Acrogynae	
NPOR	Calobryaceae	
NPP	Musci <i>Mosses</i>	
NPPA	Sphagnales (Stegocarpae)	

NPPF	Andreaeales (Schizocarpace)
NPPI	Phascales (Cleistocarpace)
NPPO	Bryales (Bryinae)
NPPR	Acrocarpi
NPPU	Pleurocarpi

If Fleischer's arrangement of the Bryales is followed the marks will be: Arthrodonteï, NPPQ; Blasmodonteï, NPPR; Amphodonteï, NPPS; Archodonteï, NPPT

NQ	Pteridophyta (Vascular cryptogams)
NR	Filicales <i>Ferns</i>
NRA	Eusporangiatae
NRB	Ophioglossales
NRC	Marattiales
NRE	Leptosporangiatae
NRF	Filices <i>True ferns</i>
NRH	Hydropteridae <i>Water ferns</i>
NRK	Sphenophyllales
NRM	Equisetales
NRN	Euequisetales
NRO	Calamariales
NRQ	Lycopodiales. <i>Club-mosses</i>
NRR	Lycopodiineae
NRS	Psilotineae
NRT	Selaginellineae
NRU	Lepidophytineae <i>Lepidodendron</i>
NRV	Isoëtineae
NRX	Cycadofilices (Pteridospermeae)

NRZ Spermatophyta (Phanerogamia. Siphonogamia)

Ns	Gymnospermae
NSA	Cycadales <i>Cycads</i>
NSB	Bennettitales
Nsc	Cordaitales
NSG	Gingkoales (Ginkgoales)
NSK	Coniferae <i>Conifers</i>
NSM	Taxaceae
NSP	Pinaceae
NST	Gnetales
NT	Angiospermae (Metaspermae)
NU	Monocotyledoneae
NUA	Pandanales
NUB	Helobiae (Fluviales)
NUC	Potamogetonineae
NUD	Alismatineae
NUE	Butomineae
NUF	Triuridales
NUG	Glumiflorae <i>Grasses. Sedges</i>
NUH	Gramineae
NUI	Cyperaceae (Carices)
NUJ	Principes (Palmae) <i>Palms</i>
NUK	Synanthae
NUL	Spathiflorae (Spadiciflorae)
NUM	Fariuosae
NUMF	Flagellariineae
NUN	Enantioblastae
NUO	Bromeliineae
NUP	Commelinineae
NUQ	Pontederiineae

NUR	Philydrineae
NUS	Liliiflorae
NUT	Juncineae
NUU	Liliineae
NUV	Iridineae
NUW	Scitamineae
NUX	Microspermae
NUY	Burmanniineae
NUZ	Gynandrae <i>Orchids, etc.</i>
NV	Dicotyledoneae
NVA	Archichlamydeae (Apetalae)
NVC	Verticillatae
NVD	Piperales
NVE	Salicales (Saliciflorae)
NVG	Myricales
NVH	Balanopsidales
NVI	Leitneriales
NVJ	Juglandales
NVK	Batidales
NVL	Julianiales
NVM	Fagales (<i>Querciflorae in part</i>)
NVN	Urticales
NVP	Proteales
NVS	Santalales (Hysterophyta)
NVT	Santalineae
NVU	Loranthineae
NVV	Balanophorineae
NVW	Aristolochiales (Hysterophyta <i>in part</i>)
NVX	Polygonales

NW	Mesachlamydeae (Choripetalae)
NWA	Centrospermae
NWAC	Chenopodiinae
NWAE	Phytolaccineae
NWAI	Portulacineae
NWAO	Caryophyllineae
NWB	Ranales (Polycarpicae)
NWBA	Nymphacineae
NWBD	Trochodendrineae
NWBH	Ranunculineae
NWBM	Magnoliineae
NWC	Rhoeadales
NWCA	Rhoeadineae
NWCC	Cappardineae
NWCJ	Resedineae
NWCM	Moringineae
NWD	Sarraceniales (Insectivorae)
NWE	Rosales (Saxifraginae. Rosiflorae)
NWEA	Podostemonineae
NWEK	Saxifragineae
NWER	Rosineae
NWF	<i>Leguminosineae</i>
NWG	Geraniales (Gruinales)
NWGG	Geraniineae
NWGM	Malpighiineae
NWGP	Polygalineae
NWGR	Dichapetalineae
NWGT	Triococcae
NWI	Sapindales (Celastrales)

NWIB	Buxineae
NWIE	Empetrineae
NWIH	Coriariineae
NWIL	Limnanthineae
NWIN	Anacardiineae
NWIP	Celastrineae
NWIR	Icacineae
NWIS	Sapindineae
NWIT	Sabiineae
NWIV	Melanthineae
NWIW	Balsamiineae
NWL	Rhamnales (Frangulinae)
NWM	Malvales (Columniferae)
NWME	Elaeocarpaceae
NWMH	Chlaenineae
NWMM	Malvaceae
NWMS	Scytopetalineae
NWP	Parietales (Cistiflorae. Passiflorineae)
NWPA	Theineae
NWPD	Tamaricineae
NWPF	Fouquierineae
NWPH	Cistineae
NWPK	Cochlospermineae
NWPM	Flacourtiineae
NWPN	Papayineae
NWPR	Loasineae
NWPT	Datiscineae
NWPV	Begoniineae
NWPX	Ancistrocladinae

NWS	Opuntiales
NWT	Myrtiflorae (Thymelaeinae)
NWTA	Thymelaeinae
NWTE	Myrtineae
NWTH	Hippuridinae
NWTK	Cynomoriinae
NWU	Umbelliflorae
NX	Metachlamydeae (Sympetalae. "Monopetalae")
NXA	<i>Pentacyclicae</i>
NXB	Ericales
NXD	Primulales
NXE	Ebenales (Diospyrinae)
NXEA	Sapotineae
NXED	Diospyrinae
NXH	<i>Tetracyclicae</i>
NXI	Contortae
NXIA	Oleinae
NXID	Salvadorinae
NXIG	Gentianinae
NXX	Tubiflorae (incl. Personatae)
NXKA	Convolvulinae
NXKB	Borragininae
NXKD	Verbeninae
NXKG	Solaninae
NXKJ	Acauthinae
NXKM	Myoporinae
NXKR	Phrymiinae
NXN	Plantaginales
NXR	Rubiales

Nxt	Campanulatae
NxtA	Cucurbitineae
NxtC	Campanulineae
Nxu	<i>Aggregatae</i>
Nxv	Dipsacaceae
Nxw	Compositae

NY Sylvae *Trees Shrubs*

General works only. Works on individual families, genera or species will go in Phytography (NJ) as: Conifers NSK; Palms NUJ. Fruit trees go in RII. For local sylvas use Ny with the local list.

Palaeobotany

See Geology for general works. Descriptions of individual fossil forms will go in their respective places in Phytography.

NYZ Phytopathology

Most books on this subject will go Rrr.

NYZG	Galls
NYZN	Necrobiosis

Nz Economic and Medical botany

General works only. For vegetable products see RHH and RI. For timber and forestry see RJ. Medical botany will consist, generally speaking, of descriptive treatises on plants which are useful in medicine (see also QCA) and also on poisonous plants.

ZOOLOGY

Classification made by Mr. Richard Bliss, Librarian of the Redwood
Library, Newport, R. I.

SYNOPSIS

General works O

Generalia O·1-O·9

Biologic zoology OA

Morphology OB

Skeletography OBA-OBK

Splanchnography OBKZ-OBW

Histology OBX-OBZ

Physiology OC

Physiological chemistry OCO-OCZ

Reproduction, Embryology OD

Oekology OE

Adaptation, etc. OEQ-OEZ

Descriptive zoology OG-PT

Economic zoology PU

Anthropology PV-PZ

Preliminaries and Generalities

- O·1 Study of Zoology
- O·2 Bibliography of Zoology
- O·3 Biography of Zoologists
- O·4 History of Zoology
- O·5 Dictionaries
- O·6 Tables, Handbooks, etc.*
- O·7 Periodicals
- O·8 Society publications †
- O·9 Collections of works by several writers

O Comprehensive and miscellaneous works

- O1 Classification and nomenclature. Taxonomy

O11 } Museums, Zoological gardens, Parks, etc.
to }
O99 } Arranged by local list

OA·1 } Preliminaries of biologic zoology, like O·1 to O·9
to }
OA·9 }
If not put in O·1 to O·9

OA ZOOLOGY (BIOLOGIC) comprehensive works

Will include "Comparative Anatomy and Physiology"

OAB Collecting technique. Collecting and preserving

OABA Plankton apparatus and methods

OABE Planktonokrit

OABI Insects

OABK Apparatus for rearing caterpillars. Breeding cage

OABO Birds

OABU Birds' eggs and nests

OAC Preserving technique

OAD Skeletal preparations

*When "Handbook" or "Manual" means merely a short general treatise on zoology it goes in O

†A society publication relating to one topic of zoology goes under its appropriate head

OAE	Examining and preserving media
OAF	Bleaching fluids
OAFD	Decalcifying fluids
OAG	Clearing agents
OAH	Decolorizing and differentiating solutions
OAHB	Dissociating fluids
OAI	Injection
OAIC	Corrosive methods
OAJ	Injection masses
OAK	Taxidermy
OAL	Preservation of collections
OAM	Microscopical technique
OAN	Microscope (General optical principles)
	For a special zoological library; In a general library OAN to OAW should go in M. Biology
OANE	Lenses
OANO	Microscope stands
OANU	Microscope accessories
OAO	Drawing cameras
OAP	Microtomes
OAQ	Slides, labels, cones, etc.
OAR	Fixing, hardening, and preserving agents. Fixatives
OARA	Theory of preservatives. "Fixation"
OARE	Acids
OARI	Salts
OARG	Mixtures
OARU	Formaldehyde
OARY	Alcohol as a fixative
OAS	Stains and staining
OASA	History of stains and staining technique
OASE	Carmines
OASI	Haematoxylin
OASL	Anilines
OASO	Staining in toto
OASU	Staining on slide
OASY	Double and multiple staining
OAT	Imbedding and sectioning
OATA	Paraffine
OATI	Paraffine ovens
OATO	Imbedding
OATU	Sectioning

OAU	Mounting
OAUC	Cements and varnishes
OAUT	Cell mounts
OAV	Special methods of technique for each class of objects
OAVA	Cytologic methods
OAVC	Zoologic methods
OAW	Methods of study of serial sections
OAWA	Drawing. (<i>See</i> OAs)
OAWE	Interpretation by "reading through"
OAWI	Reconstruction
OAWO	Wax models (Bonn's method)
OAWU	Millimetre paper
OAWY	Other methods
OAX	Kinetoscopic technique
OAY	Dissection
OAYI	Vivisection
	The ethics of vivisection go in Bqz
OAZ	Zoochemistry. <i>See</i> Physiological chemistry under Physiology
	Better in organic chemistry
	Comparative Anatomy and Physiology will be included in OA. For human anatomy and physiology <i>See</i> Q

OB Morphology. Comparative Anatomy

OBB	Protoplasmic structure. Cellular structure
OBBA	Protoplasm
OBBE	Plasmodium
OBBE	Ectosarc and Endosarc
OBBD	Vacuole
OBBE	Permanent
OBBF	Contractile
OBBG	Gastrie (Food vacuole)
OBEI	Nuclei
OBBL	Amœboid processes
OBEQ	Pseudopodia. Tube-feet, Tentacle, Cilia
OBBP	Supporting and protective structures. <i>See also</i> OBE
OBEQ	Stalk
OBER	Cellular wall
OBEA	Shell
	<i>See also</i> OBEF, OBEH
OBEI	Chitinous
OBEU	Calcareous
OBEV	Silicious
OBEY	Cuticle

OBC	Multicellular structure
OBCA	Somatic system
OBCB	Germinal layers
OBCC	Ectodermal structure
OBCD	Endodermal structure
OBCE	Mesodermal structure
OBCF	Body. Body-wall
OBCG	Cephalic region
OBCGP	Prostomium
OBCH	Thoracic region
OBCI	Cephalo-thorax. Collum
OBCJ	Abdominal region
OBCK	Caudal region
OBCL	Cormus. Personae cormorum
OBCM	Antimere and metamere Muscular system <i>See</i> OBD
OBCN	Body cavity
OBCO	Cœlom
OBCOA	Proto-cœlom
OBCOC	Syncœlom
OBCOD	Episplauchnic
OBCOE	Pericardiac
OBCOF	Epinephric
OBCOG	Gonocœl
OBCP	Hæmocœl
OBCPH	Phlebœdesis
OBCQ	Integument, Dermoskeleton
OBCR	Cellular membrane
OBCS	Derma (Cutis. Corium)
OBCT	Hypoderma
OBCU	Epidermis. Cuticle. Exoskeleton
OBCV	Epithelium

OBCW	Dermal and epidermal structures
OBCX	Scales
OBCXA	Shields. Plates. Scutes
OBCXE	Warts. Callosities
OBCY	Hair. Bristles
OBCYA	Hair succession
OBCYE	Hair slope and hair whorls
OBCYF	Spine. Prickles
OBCVH	Horns, Hoofs
OBCYN	Nails. Claws. Onchium. Empodium
OBCYP	Fin-Rays
OBCYR	Rattles
OBCZ	Mammary pocket. Marsupium
	Pigment cells <i>See</i> OBVX
	Scent glands <i>See</i> OBP6SC

OBD	Myography. Myology
OBDA	Muscular system
OBDB	Muscle bands and fibers
OBDD	Voluntary muscles
OBDE	Muscle plate muscles
OBDF	Somatopleural. (Vestro-axial)
OBDG	Nephromeric. (Hyperaxial. Hyposkeletal)
OBDK	Visceral. (Splanchnopleural)
OBDL	Musculature
OBDM	Dermal
OBDN	Dermo-muscular tube
OBDO	Dorso-ventral
OBDP	Dorso-lateral
OBDQ	Ventral
OBDR	Protractor and Retractor
OBDS	Myomeric. (Myocomma. Myotome)
OBDT	Antimeric
OBDV	Muscles of particular parts and organs, as:
OBDVD	Diaphragm
OBdVI	Intercostal, etc.
OBdW	Myological formulae
	Abnormalities <i>See</i> OECT
OBdX	Musculature of particular animals
	Arr. as in systematic list

OBE Supporting and defensive structures

See also OBEF

OBF	Skeletal system. Osteology
OBFA	Exoskeleton (<i>General</i>)
OBFE	Endoskeleton (<i>General</i>)
OBFC	Horny fibers
OBFE	Spicules (Megascleres. Microscleres, etc.)
OBFF	Stercom

OBFH	Calcareous plates
OBFI	Oral armature
OBFJ	Spines
OBFL	Shell
	<i>See also</i> OBBS
OBFM	Calcareous
OBFN	Silicious
OBFR	Internal shell
OBFT	Chitinous skeleton. Test
	<i>See also</i> OBIT
OBFU	Apodemal system. Apodema
OBFW	Cartilaginous skeleton
OBG	Osseous (and cartilaginous) skeleton
OBH	Axial
OBHA	Vertebral column (Back-bone)
OBHC	Centrum
OBHE	Notochord
OBHH	Haemal arch
OBHI	Neural arch
OBHK	Cervical region
OBHL	Buccal skeleton. Mouth parts
	<i>See also</i> OBLK
OBHN	Thoracic region. Thorax
OBHO	Branchial skeleton
OBHP	Lumbar region
OBHQ	Sacral and caudal regions. Tail
OBHR	Ribs
OBHS	Sternum
OBI	Cephalic skeleton (Cranium. Skull)
OBIA	Chondro-cranium
OBIE	Basilar plate
OBID	Osseous bone-case
OBIE	Occipital segment
OBIF	Parietal segment
OBIG	Frontal segment
OBIH	Pre-frontal
OBII	Post-frontal
OBIK	Basilar portion
OBIL	Presphenoid
OBIM	Basisphenoid
OBIN	Parasphenoid
OBIO	Vomer
OBIP	Facial apparatus
OBIQ	Palatine
OBIR	Sense capsules
OBIS	Olfactory
OBIT	Ocular
OBIU	Auditory
OBIUS	Squamosal

OBIV	Visceral bars
OBIW	Mandibular arch. Jaws. Teeth
OB1WQ	Quadrate bone
OBIX	Hyoid arch
OBIV	Branchial arch
	Pectoral arch <i>See</i> OBKO
	Pelvic arch <i>See</i> OBKV
OBJ	Appendicular skeleton. Appendages
OBJA	Unpaired appendages
OBJB	Proboscis. Trunk
OBJC	Rostrum. Beak <i>See also</i> OBLKO
OBJD	Haustellum. Antlia
OBJE	Sucking mouth. Tongue <i>See also</i> OBLKA
OBJF	Polypite
OBJG	Arachnidium
OBJH	Sting. Ovipositor
OBJI	Caudal spine (Telson)
OBJK	Median (vertical) fins Tail <i>See</i> OBHQ
OBJM	Paired appendages
OBJN	Cephalic region
OBJO	Gnathite (Manducatory apparatus)
OBJP	Mandible
OBJQ	Maxillae. Palps
OBJR	Pedipalps
OBJS	Labrum. Palp
OBJU	Foot-jaws
OBJX	Antennae. Antennules <i>See also</i> OBRBH
OBJY	Ophthalmite (Eye-stalk)
OBJZ	Thoracic, Abdominal and Pelvic regions
OBK	Limbs. Feet
OBKA	Invertebrate limbs
OBKB	Thoracic appendages
OBKC	Abdominal appendages
OBKD	Endopodite. Exopodite
OBKE	Swimming paddles. Pleopods
OBKF	Parapodia
OBKH	Podia. Feet
OBKI	Plantula
OBKJ	Pulvillus
OBKK	Wings
OBKL	Tegmina. Elytra

OBKM	Vertebrate limbs (Fore and hind limbs)
OBKN	Thoracic
OBKO	Shoulder girdle
OBKP	Pectoral fins
OBKQ	Wings
OBKR	Fore limbs
OBKS	Carpus
OBKU	Pelvic
OBKV	Pelvic girdle. Pelvis
OBKW	Ventral fins
OBKX	Hind limbs
OBKY	Tarsus

OBKZ Splanchnography

OBL	Alimentary system
OBLA	Alimentary tract
OBLB	Digestive cavity. Digestive sac
OBLC	Adipose body. Fat body
OBLE	Enteric canal. Digestive tube
OBLF	Enteron (Primitive gut)
OBLG	Archenteron (Coelenteron)
OBLH	Neurenteric canal
OBLI	Proenteron
OBLJ	Gastric pouches and canal
OBLK	Buccal cavity. Mouth <i>See also</i> OBLH
OBLKA	Tongue <i>See also</i> OBLJ
OBLKE	Salivary gland
OBLKI	Horny plates (Baleen)
OBLKO	Beak <i>See also</i> OBLJ
OBLL	Masticatory apparatus
OBLLA	Jaws (Invertebrate)
OBLLE	Aristotle's lantern
OBLLI	Modified feet
OBLLO	Masticatory plates
OBLLU	Odontophore. Radula
OBLM	Jaws (Vertebrate) Teeth (Dentition, Odontography)
OBLMP	Palatine teeth
OBLN	Dental formulae
OBLNA	Modified mandibles and maxillae

OBL0

Stomodæum

OBLP	Pharynx
OBLPA	Pharyngonasal cavity
OBLPC	Pharyngoöral cavity
OBLPI	Pharyngolaryngeal cavity
OBLPO	Pharyngeal teeth
OBLQ	Thymus gland
OBLR	Thyroid gland. Accessory thyroid gland
OBLRH	Hypobranchial groove. Endostyle
OBLS	Oesophagus. Oesophagus and stomach (Fore gut)
OBLSA	Gizzard. Mastax. Trophi
OBLSC	Crop
OBLSI	Sucking stomach
OBLSO	Bile duct
OBLT	Enteron. Gastric cavity. Stomach
OBLU	Proventriculus
OBLV	Ventriculus
OBLW	Flagellated chamber
OBLX	Gastric gland
OBLZ	Mid gut
OBM	Mesenteron
OBLMA	Liver
OBLMB	Digestive gland
OBLMC	Gall-bladder and duct
OBLME	Pancreas
OBLMG	Pyloric tract
OBLMH	Spiral fold. Spiral valve
OBLMJ	Pyloric appendages
OBLML	Villi
OBLMM	Metenteron. Intestinal canal
OBLMN	Small intestine
OBLMO	Large intestine. Colon
OBLMP	Cæca
OBLMQ	Intestinal glands
OBLMR	hind gut
OBLMS	Proctodæum
OBLMT	Rectum
OBLMU	Rectal gland
OBLMV	Cloaca
OBLMW	Urogenital sinus
OBLMX	Anus
OBLMY	Anal glands. Bursa fabricii
OBLMZ	Alimentary system : by classes, etc.

OBN	Vascular system. (Circulatory system)
OBN A	Water-vascular system
	<i>See also</i> OBPA
OBN D	Canals (Excretory capillaries)
OBN C	Canal system
OBN CK	Ring canals
OBN CM	Madreporite. Stone canal
OBN CR	Radial canals. Tube-feet canals
OBN D	Pollian vesicles
OBN E	Tiedmann's vesicles
OBN F	Ambulacral appendages
OBN G	Pseudo-haemal system
OBN H	Radial and circular sinuses
OBN I	Sub-neural canals
OBN J	Hæmal (Lacunar) system. Blood-vascular system
OBN K	Hæmocœl
OBN L	Lacunar system
OBN M	Lateral and transverse vessels. Lemnisci
OBN N	Dorsal vessel (Dorsal heart) and Pericardial sinus
OBN O	Closed blood-vascular system
OBN P	Heart
OBN PB	Branchial
OBN PC	Accessory (Caudal)
OBN Q	Arteries
OBN R	Capillaries
OBN S	Veins
OBN T	Retia mirabilia
OBN U	Lymphatic system. Ductless glands
OBN V	Lymphatics. Lacteals
OBN W	Spleen
OBN X	Suprarenal capsule, Adrenal gland Thyroid and Thymus gland <i>See</i> OBLQ, OBLR
OBN Z	Vascular system : by classes, etc.
OBO	Respiratory system
OBO A	Dermal pores
OBO C	Cœlomic cavity
OBO CB	Bursae
OBO CD	Dermal tracheæ (Papillæ)
OBO CN	Stewart's organ
OBO CR	Respiratory tree (Water lung.) Cuvierian organ

OBOD	Branchial system
OBOE	Accessory intestine (Siphon)
OBOF	Branchiae intestine
OBOG	Branchiae. Gills. Gill chamber
OBOH	Ctenidia
OBOI	Branchial lamellæ (Respiratory plate)
OBOJ	Siphon. Siphuncule
OBOK	Ambulacral gills
O BOL	Lung-book. Gill-book
O BOM	Pulmonary sac
O BON	Atrial (peribranchial) chamber
O BOP	Adaptive gills
O BOPA	Ambulacral gills
O BOFF	Foot gills (Podobranchiae, Arthrobranchiae, Pleurobranchiae)
O BOFN	Anal gills
O BOR	Tracheo-branchiae
O BOS	Tracheal system
O BOT	Tracheæ
O BOTA	Tubular. Stigmata
O BOTE	Tracheal gills. Tracheal lungs
O BOU	Pulmonary system
O BOV	Air bladder
O BOW	Air sac
O BOX	Lungs (Air-breathing vertebrate)
O BOZ	Respiratory system: by classes, etc.
O BP	Excretory system
O BPA	Water-vascular system
O BPB	Tubes and capillary vessels
O BPC	Excretory pores
O BPD	Flame cells
O BPE	Water lungs <i>See</i> OBOCK
O BPG	Glands. Exclusive of those entered in OBL, OBN, OBP, OBU. Arranged alphabetically, as :
O BPGA	Antennary
O BPGC	Coxal
O BPGF	Foot
O BPGO	Oil
O BPGP	Purple

OBF6SC	Seent. Seent organ
OBF6SH	Shell
OBF6SL	Slime
OBF6W	Wax. Honey dew
OBPI	Ink sac
OBPM	Malphigian tubes. Malphigian vessels
OBPO	Organ of Bojanus (Kidney)
OBPS	Weber's organ
	Urinary organs <i>See</i> OBUA
OBPZ	Excretory system : by classes, etc.
OBQ	Nervous system
OBQA	Radial type. Oral and apical system
OBQB	Symmetric bilateral type
OBQC	Bilateral type (Vertebrates)
OBQD	Sensory cells
OBQE	Ganglia
OBQF	Nerves and nerve centers
OBQG	Afferent (Sensory)
OBQGN	Nerve endings
	<i>See also</i> Histology (OBZM)
OBQH	Efferent (Motor)
OBQHN	Nerve endings
OBQI	Sensori-motor
OBQJ	Reflex
OBQK	Inhibitory
OBQL	Vaso-motor
OBQLA	Vaso-constrictor
OBQLE	Vaso-dilator
OBQN	Secretory
OBQNA	Mammary
OBQO	Ganglia
OBQOE	Sporadic ganglia
OBQP	Ganglionic system
OBQQ	Ganglionic cells and fibrillae
OBQR	Peripheral system
OBQS	Oral nervous system
OBQT	Apical nervous system

OBQT	Cerebral ganglionic system
OBQUA	Cerebral organ "Brain"
OBQUK	Sensory lobes and organs
OBQV	Ventral cord. Ventral ganglionic chain
OBQVG	Giant nerve tube
OBQVK	Thoracic ganglionic mass
OBQW	Dorsal nerve cord
OBQX	Nervous system
OBQXA	Oesophageal
OBQXE	Visceral

OBR Cerebro-spinal system (Myelencephalon)

OBRA	Notochord
OBRR	Spinal cord (Myelon. Medullary tube)
OBRC	Spinal nerves
OBRD	Encephalon. Brain
OBRE	Cortex
OBRF	Fissures. Sulci
OBRG	Prosencephalon (Telencephalon. Fore-brain. Cerebrum)
OBRH	Rhinencephalon (Olfactory lobes, Olfactory tubes)
OBRJ	Thalamencephalon (Diencephalon, "Tween-brain, Thalmi-optici)
OBRJ	Pineal body. Pineal eye
OBRK	Mesencephalon (Mid-brain)
OBRLL	Epencephalon (Hind-brain)
OBRM	Cerebellum
OBRN	Pons Varolii
OBRQ	Metencephalon (After-brain. Medulla oblongata)
OBRP	Electric lobe
OBRQ	Ventricles
OBRR	Cerebral commissures
OBRSS	Cranial (Cerebral) nerves
OBRF	Cerebro-spinal ganglia

OBRV Sympathetic system

OBRW	Ganglia and plexuses
OBRX	Nerves and nerve centres

OBS Organs of special sense

OBSA	General and undetermined. Arranged alphabetically, as:
OBSAC	Calceoli
OBSAF	Frontal sensory organs
OBSAL	Leydigian organs
OBSAP	Pallial sensory organs
OBSAPE	Pectines
OBSAS	Sphaeridia
OBSASU	Sub-radular organ
OBSB	Tactile organs

OBSBA	Tactile-cells and corpuscles
OBSBB	Tactile rods, cones, feelers
OBSBC	Tactile setae, bristles, hairs
OBSBG	Ambulacral spines and appendages
OBSBH	Antennae and Antennulae. <i>See also</i> OBLA
OBSBI	Anal cerci
OBSBJ	Proboscidium
OBSBL	Integumentary sense organs. <i>See also</i> ONZM
OBSBM	Nerve eminences
OBSBN	End buds and bulbs
OBSBP	Tactile cells
OBSBR	Club-shaped corpuscles
OBSBT	Lateral line organ
OBS C	Olfactory and Gustatory organs
OBSCA	Olfactory pits. Ciliated pits.
OBSCD	Olfactory setae
OBSCF	Olfactory antennal and filaments (Feelers)
OBSCH	Oosphradium
OBSCK	Goblet-shaped bodies
OBSCO	Organ of Jacobson
OBSD	Nose
OBS E	Tongue. Taste buds
OBSF	Ocular organs
OBSG	Stigmata. Pigment spots. Red eye-spot
OBSH	Optic pits
OBSI	Ocelli. Ocellicysts
OBSJ	Tentacular eye (Vesicular eye)
OBSK	Refractory organ. Eye
OBSL	Mantle eye
OBSM	Median (unpaired) eye.) Omatidium
OBSN	Compound (facetted) eye
OBSO	Lateral eye
O BSP	Auditory organs
OBSQ	Auditory vesicle. Auditory sac
OBSR	Tentaculocyst (Acoustic tentacle)
OBS S	Auditory setae
OBS T	Otocyst and Otolith
OBSU	Chordotonal organ
OBSV	Tympanal organ
OBSW	Weberian apparatus
OBSX	Ear
OBSY	Auditory labyrinth
OBSZ	Semicircular canals
OBT	Nervous system : by classes, etc.

OBU Urinogenital system

OBUA Renal organs. Urinary organs

OBUB	Nephridia
OBUC	Pronephros (Head kidney)
OBUD	Mesonephros (Wolffian body)
OBUE	Segmental ducts
	Mullerian duct <i>See</i> OBVG
	Wolffian duct <i>See</i> OBV1
OBUF	Metanephros (Kidney)
OBUG	• Metanephric duct. Ureter
OBUK	Urinary bladder
OBUP	Urethra

OBV Reproductive organs

OBVA	Genital (germinal) glands
	<i>See also</i> OBBA
OBVB	Hermaphrodite gland
OBVC	Female genital glands
OBVCA	Gonads
OBVCE	Gonadial tube
OBVCI	Ovary. Ova
OBVCO	Vitelline (yolk) gland
OBVD	Male genital glands
OBVDS	Spermatidia
OBVDT	Testis. Spermary
OBVE	Efferent (genital) ducts and glands
OBVEA	Gonophore
OBVED	Renal funnel
OBVEG	Genital cord (Mullerian and Wolffian duct)
OBVF	Female ducts and glands
OBVG	Oviduct (Ovarian tube, Ovariule, Mullerian duct, Fallopian tube)
OBVGA	Oviduct gland. Oviduct capsule
OBVGE	Receptaculum ovarum
OBVGI	Laurer's canal
OBVI	Male ducts and glands
OBV1	Sperm duct (Wolffian duct, Vas deferens)
OBVJ	Specialized efferent ducts and glands
OBVJA	Ovisac
OBVJE	Bursal pocket. Bursæ
OBVJI	Brood pouch. Brood cavity. Ephippium
OBVK	Uterus. Uterus tube
OBVL	Vagina
OBVLC	Vaginal cæcum

OBVM	Receptaculum seminis
OBVMA	Albuminous gland
OBVME	Cement (Colleteria) gland
OBVMI	Shell gland. Nidamental gland
OBVMO	Accessory gland
OBVMU	Perineal sac and gland
OBVN	Spermatheca
OBVNA	Spermatophore capsule, pouch, sac
OBVO	Vesiculae seminales
OBVP	Prostate gland
OBVQ	Urogenital sinus
OBVR	Copulatory organs
	Vagina <i>See</i> OBVL
OBVS	Bursa copulatrix
OBVT	Vulva
OBVU	Intromittant organ (Penis, Cirrus)
OBVV	Accessory organ of copulation
OBVVA	Clitoris
OBVVE	Spiculum amoris
OBVVI	Organs for seizing and clasping
OBVVO	Integumentary processes and folds
OBVW	Transformed limbs and appendages
OBVX	Hectocotylized arm
OBVY	Ventral fin appendages
OBVZ	Anal fin
OBW	Urinogenital system, by classes

OBX Histology

OBXA Cell

Most of the books on this topic will go in Biology.

OBXB	Cell development
OBXC	Morphology (particular kinds of cells) Arr. alphabetically, as:
OBXCA	Amoeboid
OBXCC	Ciliated
OBXCE	Collared
OBXCF	Flagellate
OBXCG	Goblet
OBXD	Primary germinal layer. Body wall
OBXE	Ectoderm (Epiblast) Ectosare
OBXF	Endoderm (Endoblast) Endosare
OBXG	Mesoderm (Mesoblast) Mesoglua

OBXH**Tegumentary (cutaneous) tissue**

OBXI	Derma (Corium, Cutis vera)
OBXJ	Epidermis. Perisarc (Cuticle)
OBXK	Epidermal glands
OBXKA	Sudoriparous
OBXKE	Sebaceous
OBXL	Epidermal structures (Appendages)
OBXM	Exoskeletal
OBXMA	Shell
OBXME	Test
OBXMI	Scales
OBXMO	Plates
OBXN	Appendicular
OBXNA	Rhabdites
OBXNE	Nails, Claws, Hoofs, etc.
OBXNI	Hair, Setae, Bristles
OBXNO	Feathers
OBXO	Epithelial tissue. Membrane
OBXP	Epithelium
OBXQ	Endothelium
OBXR	Cement substance
OBXS	Simple epithelium
OBXSA	Pavement (Squamous)
OBXSE	Columnar
OBXSI	Goblet
OBXSO	Glandular
OBXSU	Ciliated
OBXT	Stratified epithelium
OBXTA	Keratin
OBXTE	Prickle cells
OBXU	Transitional
OBXV	Pigment epithelial cells
OBXW	Particular membranes. Arr. alphabetically, as:
OBXWA	Basement
OBXWE	Hyaloid

OBY**Specialized tissue**

OBYA	Neuro-epithelial
OBYB	Glandular
OBYC	Secreting glands. Arranged alphabetically, as
OBYCB	Biliary
OBYCG	Gastric
OBYCI	Intestinal

OBYCL	Lacrymal
OBYCM	Mammary
OBYCP	Pancreatic
OBYCR	Repugnatorial
OBYCS	Salivary
	Sebaceous. <i>See</i> OBYKE
OBYCT	Sperm
OBYCU	Urinary (Kidney)
OBYD	Ductless glands
OBYE	Suprarenal (Adrenal)
OBYF	Thymus and Thyroid
OBYG	Spleen
OBYH	Foetal membrane
OBYI	Chitin (Entomolin)
OBYK	Connective tissue
OBYL	Corpuscles
OBYLA	Granule
OBYLE	Pigment. Pigment cells
OBYLI	Plasma
OBYM	Connective tissue membrane
OBYMA	Mucous
OBYME	Serous
OBYMI	Synovial
OBYN	Mucous tissue
OBYO	Gelatinous
OBYP	Retiform (Reticulate)
OBYQ	Adenoid (Lymphoid)
OBYR	Areolar. Interstitial
OBYS	Adipose. Fat body
OBYT	Fibrous
OBYTA	White. Tendinous
OBYTI	Yellow elastic
OBYTO	Fenestrated membrane
OBYU	Cartilaginous. Cartilage
OBYV	Hyaline
OBYW	Fibro-cartilage
OBYWA	White
OBYWE	Yellow
OBYX	Chondrin
OBYY	Calcified
	Temporary <i>See</i> OBYZ

OBZ	Osseous tissue (Bone and Dentine)
OBZA	Osteoid
	Exoskeletal structures (Scales, Plates, etc.) <i>See</i> OBXMI, OBXMO
OBZF	Bone corpuscles
OBZBA	Epiphyses and Apophyses
OBZBE	Periosteum
OBZBI	Marrow
OBZBO	Haversian system
OBZC	Temporary cartilage
OBZD	Dentine. Ivory
OBZE	Enamel
OBZF	Muscular tissue
OBZFA	Non-striated (Unstriated)
OBZFE	Striated (Striped)
OBZFI	Cardiac
OBZG	Nervous tissue
OBZH	Gray (Cineritious)
OBZHA	Ganglion corpuscles
OBZHE	Neuroglia
OBZI	White (Fibrous)
OBZIA	Medullated fibers
OBZIE	Axis cylinder
OBZII	Medullary sheath
OBZIO	Neurilemma (Primitive sheath)
OBZIU	Non-medullated fibers
OBZIY	Gray (Gelatinous)
OBZJ	Cerebro-spinal system
OBZK	Nerves
OBZL	Cerebro-spinal
OBZLA	Afferent (Sensory)
OBZLE	Efferent (Motor)
OBZM	Peripheral termination (Nerve endings)
OBZMA	Fibrillae
OBZMC	End organs. End bulbs
OBZMG	Tactile corpuscles
OBZMK	Pacinian corpuscles
OBZMN	Neuro-tendonous spindles
OBZMP	Neuro-muscular spindles
OBZMR	Motorial end-plates
OBZN	Sympathetic
OBZNM	Nerves of muscles
OBZO	Ganglia
OBZP	Spinal cord
OBZQ	Encephalon. Brain

OBZR	Vascular tissue
OBZRA	Arteries
OBZRE	Capillaries
OBZRI	Veins
OBZRO	Lymphatics
OBZRP	Lymphatic glands
OBZS	Liquid tissue
OBZT	Blood
OBZU	Plasma. Serum
OBZV	Blood corpuscles
OBZVA	Red
OBZVE	Colorless (Leucocytes)
OBZVI	Phagocytes
OBZVO	Blood platelets
OBZVU	Crystals
OBZW	Lymph
OBZX	Chyle
OBZY	Reproductive tissue
OBZZ	Tokocytes. Reproductive glands
OBZZA	Ova
OBZZE	Sperms. Primitive male cells
Oc	Physiology
OCA	General topics
O CAB	Vitalism. "Vital force"
O CAC	Neovitalism
O CAD	Conditions of life
O CAE	Vital processes and functions. Vital mechanics
O CAF	Spontaneous activity
O CAG	Irritability. Transmission of stimuli
O CAH	Stimuli <i>See also</i> OCGP
O CAI	Directive
O CAJ	Mechanical
O CAK	Chemical. Chemotaxis
O CAL	Photic. Phototaxis
O CAM	Colored light
O CAN	Thermic. Thermotaxis
O CAO	Electric
O CAP	Specific energy
O CAQ	Inhibition <i>See also</i> OCHF
O CAR	Complexity of function
O CAS	Change of function

OCAT	Metabolism <i>See also</i> OCOM
OCAU	Anabolism
OCAV	Catabolism
OCAW	Metabolism of muscle
OCB	Cellular physiology
OCBA	Protoplasm
OCBB	Pigment and color
OCBBC	Chlorophyll (Other pigments arranged alphabetically, as OCBCA, etc.)
OCBD	Color changes
OCBE	Ectoderm and Endoderm
OCBF	Mesoderm
OCBG	Vascular system
OCBH	Cellular mechanics
OCBL	Physiology of the tissues
OCBM	Muscular energy
OCBN	Muscular mechanics and physics. Myodynamics
OCBO	Formation, growth and degeneration. Histogenesis and Hystolysis
OCBR	Physiology of the skin Cutaneous respiration <i>See</i> OCDS
OCBT	Cutaneous absorption
OCBU	Cutaneous secretion
OCBX	Ecdysis (Moulting)
OC C	Alimentation. Alimentary system
OC CA	Imbibition. Absorption
OC CB	Ingestion
OC CC	Mastication. Insalivation. Deglutition
OC CD	Digestion. Assimilation
OC CE	Intracellular
OC CF	Enteric (Enteric cavity and canal)
OC CG	Gastric
OC CH	Intestinal
OC CI	Saliva and Gastric juice
OC CJ	Bile
OC CK	Pancreatic juice
OC CL	Chyle
OC CM	Metabolism <i>See</i> OCAT, OCOM
OC CR	Increment. Growth. <i>See also</i> ODG
OC CU	Intra-uterine nutrition
OC CV	Lactation

OCD	Circulation (Vascular system)
OCDA	Coelomic fluid
OCDB	Water
OCDC	Blood
OCDD	Action of the heart
OCDF	Hæmolymp
OCDG	Lymph
OCDH	Chyle
OCDI	Splenic circulation
OCDJ	Fœtal circulation
OCDK	Respiration
	Hæmoglobin and its compounds <i>See</i> OCQO, OCTA
OCDM	Production of carbon dioxide
OCDO	Branchial respiration
OCDP	Tracheo-branchial respiration
OCDQ	Tracheal respiration
OCDR	Pulmonary respiration
OCDS	Localized respiration
OCDV	Animal heat
OCDW	Diurnal variation
OCDY	"Cold-blooded" animals
OCE	Secretion (and Excretion.) Physiology of the glands
OCEA	Physical processes
OCEC	Chemical processes
OCEE	External secretion
OCEF	Mucous
OCEG	Sebaceous
OCEH	Sudoriferous (Sweat)
OCEI	Internal secretion
OCEJ	Salivary
OCEK	Gastric and intestinal
OCEN	Pancreatic
OCEO	Fecal
OCER	Renal (Urine)
OCES	Mammary (Milk)
OCEU	Serous and Synovial
OCEV	Lachrymal
OCEX	Poison (Venom)
	Sperm <i>See</i> ODBI

Ocf

Physiology of the Ductless glands

OcFA	Suprarenal (Adrenal) capsules
OcFE	Thymus
OcFI	Thyroid and Parathyroid
OcFO	Spleen

OCG

Nervous system. Physiology of nerve and muscle

OCGA	Nerves
OCGB	Nerve cell
OCGC	Neuron theory. Neurones
OCGD	Afferent
OCGE	Efferent
OCGF	Association
OCGG	Peripheral fatigue
OCGH	Wallerian degeneration
OCGN	Nerve impulse and conductivity
OCGP	Stimuli. <i>See also</i> OCAH
OCGS	Electric phenomena. <i>See also</i> OCJ
OCGT	Tonic activity (Tonus)
OCGW	Muscular excitability and contractility
OCH	Function of the nervous system
OCHA	Ganglia. Nerves and nerve centers
OCHB	Motor impulse
OCHC	Reflex action
OCHD	Automatic action
OCH E	Accelerating action
OCHF	Inhibitory action. <i>See also</i> OCAQ
OCHG	Coordination of movement
OCHH	Equilibrium
OCHI	Vaso-motor action
OCHJ	Secretory action
OCHK	Intercommunication
OCHL	Functions of nerve roots
OCHN	Central system (Cerebro-spinal system)
OCHO	Spinal cord
OCHP	Spinal nerves and centers
OCHQ	Encephalon
OCHQA	Cerebral hemispheres
OCHQB	Cerebral cortex
OCHQC	Cerebellum
OCHQE	Pons Varolii

OCBQH	Medulla oblongata
OCBR	Cranial nerves and centers
OCBS	Sympathetic system
OCBT	Ganglia
OCBW	Sympathetic nerves and centers
OCI	Peripheral system
OCIA	Afferent nerves
OCIB	Sensory
OCIC	Reflex
OCID	Inhibitory
OCIE	Sensori-motor
OCIG	Efferent
OCIH	Motor. <i>See also</i> OCKM
OCII	Inhibitory
OCIJ	Vaso-motor
OCIK	Secretory
OCIL	Trophic
OCIM	Sensory phenomena. Sensation (<i>Treated topically</i>)
OCIN	Peripheral
OCINP	Peripheral for semi-circular canals
OCIO	Muscular. Kinesthetic
OCIP	Cutaneous
OCIPA	Pressure
OCIPB	Temperature
OCIQ	Lateral-line function
OCIR	Special sense organs
OCIS	Taste and smell
OCIT	Sight
OCIU	Color sensation
OCIV	Hearing
OCIW	Labyrinthine sense
OCIX	Function of Otoliths
OCJ	Electro-physiology
OCJA	Muscle
OCJC	Electric organ
OCJE	Nerve
OCJF	Sensory organs
OCK	Generation. Reproduction. <i>See also</i> OD, QBU, and Biology. Most of the works on this subject will go in OD
OCKA	Genital organs and apparatus
OCKB	Oestruation (Rut)
OCKC	Copulation. Sperm induction
OCKH	Hypodermic impregnation

OCKE	Physiology of the embryo. Gestation Intrauterine nutrition and circulation <i>See</i> OCCU, OGDJ
OCKI	Parturition
OCKL	Lactation
OCKM	Motor phenomena. Locomotion. <i>See also</i> OCIH, ORC
OCKN	Amœboid movement. Artificial amœba. <i>See also</i> ODFB
OCKO	Euglenoid movement
OCKP	Ciliary movement
OCKQ	Pseudopodial movement
OCKR	Muscular contraction
OCKS	Swimming. Floating
OCKT	Flying. Phenomena of flight
OCKW	Walking. Running. Crawling
OCL	Miscellaneous physical phenomena
OCLA	Photogeny
OCLL	Light perception
OCLP	Phototropism
OCLQ	Heliotropism
OCM	Dormant vitality. Torpor
OCMA	Sleep
OCMB	Diurnation
OCMD	Dessiccation rigor
OCMF	Cold and heat rigor
OCMH	Hibernation. Aestivation
OCN	Sound production
OCNA	Voice, Speech, etc.
OCNE	Song
OCNI	Sounds other than vocal
OCNO	Stridulation
OCO	Physiological chemistry
OCOA	Chemical composition of the animal body
OCOB	Chemical methods
OCOC	Chemical processes
OCOE	Synthetic
OCOG	Analytic
OCOH	Hydrolysis
OCOI	Oxidation
OCOJ	Reduction
OCOM	Metabolism. <i>See also</i> OCAT
OCOR	Osmosis
OCOS	Colloids

OcoV	Anastates
OcoW	Catastates
Ocp	Proteids
OcpA	Physiological properties
OcpB	Composition
OcpC	Synthesis
OcpD	Simple proteids
OcpE	Albuminoids
OcpF	Native
OcpG	Egg albumin
OcpH	Serum albumin
OcpI	Lact albumin
OcpJ	Paralbumin
OcpK	Derived
OcpL	Acid albumin
OcpM	Syntonin
OcpN	Alkali albumin
OcpO	Casein
OcpQ	Globalins
OcpR	Egg globulin
OcpS	Crystallin
OcpT	Vitellin
OcpU	Paraglobulin (Serum globulin)
OcpV	Fibrinogen
OcpW	Myosinogen
OcpX	Myosin
OcpY	Globin
Ocq	Fibrius
OcqA	Coagulated
OcqB	By heat
OcqC	By ferment
OcqD	Proteoses
OcqE	Albumoses
OcqG	Globuloses
OcqH	Vitelloses
OcqK	Keratoses
OcqL	Peptoses
OcqN	Compound proteids
OcqO	Hæmoglobin (Hæmoglobulin) <i>See also</i> OcDL, OcTA
OcqP	Gluteo-proteids
OcqQ	Mucin. Mucoids
OcqR	Nucleo-proteids
OcqS	Nucleic acid
OcqT	Nucleones

OcQW	Lardacein
OcQX	Lecithin-albumen
OcR	Collagens
OcRA	Collagen
OcRB	Gelatin
OcRC	Chondrin
OcRE	Elastin
OcRK	Keratin
OcRM	Neurokeratin
OcRN	Chitin
OcRP	Protamines
OcRQ	Hystidin
OcRR	Argenin
OcRS	Lycin
OcRT	Proteid compounds with acids, halogens, etc.
OCS	Enzymes
OCSA	Properties (Physical and chemical)
OCSB	Action
OcSC	Catalytic phenomena
OcSE	Special action
OcSF	Proteolytic
OcSG	Amylolytic
OcSH	Oxydative
OcSI	Coagulative
	Particular enzymes
OCSJ	Ptyalin
OCSK	Pepsin
OCSL	Trypsin
OCSM	Trypsinogen
OCSN	Piajin
OCSO	Rennin
OcSP	Fibrin ferment
OCSQ	Urea ferment
OcSR	Muscle enzyme
OcST	Kinases
OcSTA	Enterokinase
OcSTE	Erpepsin
OcSU	Zymogens
OCSV	Toxins and Antitoxin
OCSW	Toxins
OCSX	Antitoxins
OCSY	Toxon and Toxoid
OCSZ	Immunity

OCT	Coloring matters. Pigments
OCTA	Hæmoglobin and its derivatives. <i>See also</i> OCBL, OCQO
OCTB	Hæmachromogen
OCTC	Hæmatin
OCTD	Hæmin
OCTG	Hæmocyantin
OCTH	Chlorophyll
OCTI	Bile Pigments
OCTJ	Bilirubin
OCTK	Biliverdin
OCTN	Urinary pigments
OCTO	Urobilin
OCTP	Melanin
OCTR	Retinal pigments
OCTS	Fuscin (Retinal melanin)
OCTT	Lipoehrin
OCTU	Chromophanes
OCTV	Visual purple
OCTW	Lipochromes
OCTX-z	[Other pigments]

OCU	Carbohydrates
OCUA	Glucoses
OCUB	Monoses
OCUC	Pentoses
OCUD	Hexoses
OCUE	Mannose
OCUG	Glucose. Dextrose
OCUJ	Galactose (Cerebrose)
OCUL	Lævulose (Fructose)
OCUP	Heptoses
OCUR	Octoses
OCUT	Nonoses
OCV	Disaccharids (Sugars)
OCVA	Saccharose (Cane sugar)
OCVC	Lactose (Milk sugar)
OCVF	Maltose
OCVH	Mycose (Trehalose)
OCVL	Trisaccharids
OCVM	Melitose
OCVP	Polysaccharids (Starches)
OCVS	Starch (Amylum)
OCVT	Glycogen (Animal starch)

OCVU	Carbohydrate derivatives
OCVW	Glucosides
OCUX	Glycuronic acid
OCVY	Glycosamin
OCW	Fatty acids. Fats and derivatives
OCWA	Acetic acid series
OCWB	Acetic acid
OCWC	Formic acid
OCWD	Butyric acid
OCWE	Valeric (Valerianic) acid
OCWG	Stearic acid. Adipocere
OCWI	Oleic acid
OCWK	Neutral fats
OCWL	Stearin
OCWO	Olein
OCWP	Glycerin
OCWR	Glycolic acid series
OCWS	Lactic acid
OCWT	Sarcosolactic acid
OCWU	Hydroxy-butyric acid
OCWW	Oxalic acid series. See also OCVU
OCWX	Oxalic acid
OCWY	Succinic acid
OCX	Complex nitrogenous fats. Phosphorized fats
OCXA	Lecethin
OCXC	Cholin
OCXF	Neurin
OCXI	Protagon
OCXL	Cerebrin
OCXO	Jecorin
OCXR	Chareot's crystals
OCXS	Alcohols
OCXT	Cholesterin
OCY	Amido-acids. Amides
OCYA	Acetic series
OCYB	Glycin
OCYC	Sarkosin
OCYD	Taurin
OCYE	Kreatin
OCYF	Kreatinin
OCYG	Leucin

OCYH	Lactic series
OCYI	Cystin
OCYJ	Oxalic series
OCYJA	Aspartic acid
OCYJC	Carabamic acid
OCYL	Uric acid group
OCYM	Urea
OCYN	Uric acid
OCYO	Oxaluric acid
OCYP	Allantoin
OCYR	Xanthin group
OCYS	Xanthin and derivatives
OCYT	Heteroxanthin
OCYU	Paraxanthin
OCYV	Carnin
OCYW	Sarkin (Hypoxanthin)
OCYX	Adenin
OCYY	Guanin
OCZ	Nitrogenous bases
OCZA	Protomaines
OCZB	Ptomaines
OCZC	Leucomaines
OCZE	Bile acids
OCZF	Cholaic (Cholic) acid and derivatives
OCZG	Glycocholic
OCZH	Taurocholic
OCZJ	Aromatic compounds
OCZK	Hippuric acid
OCZL	Tyrosin
OCZM	Kyneurenic
OCZN	Phenol
OCZO	Kresol
OCZP	Indol
OCZQ	Indoxyl-sulphuric acid
OCZX	Foods
OCZY	Animal
OCZZ	Vegetable
OD	Auxology (Reproduction. Embryology) <i>See also</i> OCK QBU and Biology
ODA	Reproduction
ODAC	Reproductive cells

ODAE	Asexual reproduction (Agamogenesis)
ODAF	Fission. Schizogony
ODAG	Gemmation (Budding)
ODAH	Discontinuous
ODAI	Continuous
ODAL	Internal. Gemmules
ODAN	Proliferation. Strobilation
ODAO	Zooids
ODAP	Parthenogonidia
ODAR	Colony formation
ODAS	Sporulation. Sporogenesis
ODAT	Encystment
ODB	Sexual reproduction (Gamogenesis)
ODBA	Genital gland (Germ gland. Gonad) <i>See also OBVA</i>
ODBC	Gametogeny (Gametes)
ODBD	Ovum. Ovogenesis
ODBE	Spermatozoa. Spermatogenesis
ODBF	Dimorphic spermatozoa
ODBG	Maturation
ODBH	Ovulation
ODBI	Secretion of sperm
ODBK	Conjugation. Impregnation. Fertilization
ODBL	Zygote
ODBM	Germinal continuity
ODBN	Reducing process Hypodermic impregnation <i>See OCRCH</i>
ODEO	Oviposition. Spawning <i>See also OEG</i>
ODBP	Egg case
ODBR	Oviparity. Oviparous animals
ODBT	Ovoviviparity. Ovoviviparous animals
ODEV	Viviparity. Viviparous animals
ODBW	Viviparous insects
ODBX	Viviparous fishes
ODC	Sex. Sexual differentiation
ODCA	Sex determination
ODCH	Androrhopy (Male preponderance)
ODCI	Complemental males
ODCO	Secondary sexual characters
ODCP	Form and structure
ODCR	Color

ODCU	Hermaphroditism. For abnormal hermaphroditism <i>See</i> OCT and QNF
ODCW	Parthenogenesis
ODCX	Theletoky
ODD	Alternate generation (Heterogenesis, Cyclic reproduction)
ODDA	Geneogenesis
ODDC	Metagenesis
ODDH	Heterogamy
ODDL	Pædogenesis
ODDP	Dissogeny
ODDS	Seasonal. Winter and summer eggs
ODDV	Resting eggs
ODDW	“Xenogenesis”
ODE	Embryology <i>See also</i> Biology
ODEA	Segmentation
ODEB	Blastulation. Blastula
ODEC	Gastrulation. Gastrula
QDED	Differentiation of layers and organs
ODEE	Gastrea theory
ODEF	Ectoderm
ODEG	Endoderm
ODEH	Mesoderm. Mesenchyme
ODEI	Blastopore
ODEJ	Body cavities. Somatie system
ODEK	Histogenesis
ODEM	Morphogenesis (Particular parts)
ODEO	Organogenesis (Particular organs)
ODEP	Alimentary system
ODEQ	Circulatory (Vascular) system
ODER	Respiratory system
ODES	Secretory
ODET	Nervous system
ODEU	Urinogenital system
ODEUD	Descent of the testis

ODEV	Vestigial structures. Rudimentary organs Recapitulation theory <i>See</i> Biology Van Baers law <i>See</i> Biology Larval stages <i>See</i> ODL
ODF	Experimental embryology. Developmental mechanics
ODFA	Self differentiation
ODFB	Protoplasmic mechanics <i>See also</i> OCKN
ODFC	Isolation of the blastomeres
ODFD	Periodic susceptibility
ODFH	Formative (directive) stimuli
ODFI	Pressure. Gravity
ODFJ	Agitation
ODFK	Influence of temperature
ODFL	Influence of light
ODFM	Influence of heat
ODFN	Influence of electricity
ODFO	Influence of chemical agents
ODFP	Experimental morphogenesis
ODFPM	Merogeny
ODFQ	Artificial fertilization
ODFR	Experimental parthenogenesis
ODFS	Partial embryos
ODFT	Experiments on larvae
ODFU	Hybrids
ODFW	Production of sex
ODFX	Production of caste
ODFY	Bisecting. Grafting
ODG	Post-embryological development (Ontogenesis. Growth)
ODH	Metamorphosis
ODHA	Progressive (Anabolic)
ODHE	Retrogressive (Catabolic. Retrograde)
ODHI	Suppressed
ODI	Insect metamorphosis
ODIG	Gradual
ODIH	Incomplete (Hemimetabole)
ODIM	Complete (Holometabole)
ODIN	Larva
ODIP	Pupa
ODIQ	Imago

ODIT	Hypermetamorphosis
ODJ	Dimorphism
ODJA	Sexual
ODJE	Seasonal
ODJI	Hydriform (Hydroid. Trophozooid)
ODJO	Medusoid (Medusæ, Gonozooid)
ODK	Polymorphism
ODKA	Caste <i>See also</i> ODFX
ODL	Larval stages
ODLA	Parasitic larvæ <i>See also</i> OËJ
ODLE	Oestrus cycle
ODM	Individual Arranged by class family or species, as:
ODMH	Hydrozoa
ODMI	Planula
ODMJ	Actinula
ODMM	Ephausidae
ODMN	Nauplius
ODMP	Protozoæa
ODMS	Saculina
ODMT	Nauplius
ODMU	Cypris
	An alternative arrangement is by the name of larva alphabetically, as:
ODMC	Cypris
ODMN	Nauplius
ODMP	Planula
ODN	Pupal stages. Except Insects, for which see ODIP
ODO	Post-larval growth
ODOA	Premature development
ODOE	Arrested development
ODOI	Excess of development
ODOS	Specialization
ODP	Development of particular structures. Arranged as in Morphology (OB) or Physiology (OC)
ODQ	Degeneration
ODQA	Modification of parts
ODQB	Degenerate eyes
ODQE	Reduction and loss of parts. Atrophy
	Vestigial structures. Rudimentary organs <i>See</i> ODEV
ODQG	Lost parts
ODQL	Degenerate forms
ODQO	Histolysis

ODQF	Phagocytes. Phagocytic organ
ODQS	Imaginal fold (Imaginal disc)
ODR	Regeneration
ODRA	Autotomy and regeneration. Regulation
ODRB	Appendages
ODRE	Pupae
ODRI	Merogony and regeneration
ODRO	Cephalic
ODRU	Heteromorphie
ODS	Regeneration of particular parts and organs
ODSL	Limbs
ODT	Regeneration in particular classes
ODU	Resorption. Absorption (Involution)
ODUA	Absorption and transformation
ODUC	Resorption of hydranth
ODV	Senescence and Rejuvenescence
ODW	Longevity
ODX	Life history. Life cycle (In particular animals.) Arranged alphabetically or by classes

OE Oekology (Ethology Bionomics)

OE A Habits. Arranged alphabetically, as :

OEAA	Boring
OEAB	Burrowing
OEAC	Carnivorous
OEAD	Death-feigning
OEAM	Myrmecophilous
OEAN	Swimming
OEAP	"Palolo" mode of life
OEAR	Habits of particular animals
	Hibernation <i>See</i> OCMH

OE B Habitats

OEBA	Subterranean. Cavernicolous animals <i>See also</i> OGAJ
OEBC	Bathyal (Abyssal) <i>See also</i> OGAJ
OEBP	Plankton <i>See also</i> OGAJ
OEBS	Marine
OEBT	Fresh-water

OEC	Locomotion and attachment <i>See also</i> OCKM
OECA	Tentacular
OECB	Tube-feet
OECF	Pneumatophore (Float)
OECG	Aerophore (Air-bell)
OECN	Nectophore (Swimming-bell)
OECO	Epipodia
OECB	Suckers. Sucking-feet
OECT	Byssus
OECW	Peduncle. Stalk
OED	Defense. Protection and undetermined functions
OEDA	Spines
OEDE	Pedlecellariae
OEDU	Aviculariae
OEDV	Vibraeculae
OEF	Mimicry. Protective resemblance <i>See also</i> OEWB and Biology
OEFA	Protective coloration
OEFE	Pseudomimicry
	Experimental variation <i>See</i> Biology—Heredity
OEFO	Parallel forms (Incidental resemblance)
OEFU	Ornamentation
	Ecdysis (Exuviation. Moulting) <i>See</i> OCBX
OEG	Oviposition <i>See also</i> ODBO
OEGA	Cecidology (Galls)
OEGR	Resistance (Resistivity)
OEGS	Endurance of drought
OEGT	Endurance of starvation
OEH	Social life. Social relations
OEHA	Sexual relations
OEBB	Sex recognition
OEIC	Courtship. Mating
OEIF	Parental relations
OELQ	Care and protection of young. Philostorgy
OEL	Commensalism. Symbiosis
OELA	Mutualistic (Mutualism. Consortism)
OELC	Contingent (Helotism. Serfdom)

OEJ Antagonistic. Parasitism *See also* ODLA, OWZ
 OEJA Acariosis
 OEJC Coccidiosis
 OEJG Gregarinosis
 OEJH Haemosporidiosis
 OEJM Myxosporidiosis
 OEJS Sarcosporidiosis
 OEJX Ectoparasitism (Ectozoa)
 OEJY Endoparasitism (Endozoa)
 OEJZ Hyperparasitism
 OEK Social symbiosis
 OEKA Inquilinity
 OEKE Myrmecophily. Termitophily
 OEKI Cancri-socialism
 OEKO Gregarious life
 OCKU Swarming
 OEKY Colony formation

OEL Animal industries

OELA Hunting. Capture
 OELE Food-storing
 OELO Cell-making. Honey
 OEM Homes. Housing
 OEMA Tube-building
 OEMD Webs. Web-weaving
 OEMN Nests. Nest-making
 OEMT Temporary shelters (Larvarium, etc.)

OEN Animal psychology

OEO Instinct
 OEOR Orientation
 OEP Migration
 OEPI Homing
 OEPK Consciousness
 OEPL Conscious automatism
 OEPS "Psychic" functions and phenomena
 OEPW Animal ethics

OEPZ Variation, Adaptation, etc. *See also* Biology

OEQ Variation

OEQA Seasonal

OEQB	Seasonal dimorphism and trimorphism
OEQE	Sexual
OEQF	Sexual dimorphism
OEQG	Pairing variation
OEQK	Unisexual
OEQL	Individual
OEQM	Heterophagic
OEQP	Discontinuous
OER	Color variation
OERA	Seasonal color changes <i>See also</i> OERF
OERE	Albinism and Melanism
OERO	Larval
OES	Substantive
OESA	Size and form
OESC	Polymorphism
OESE	Proportion of parts
OESF	Dimorphism
OESG	Macropterism and Brachymerism
OESH	Variation in wings
OESM	Meristic
OESP	Superficial characters <i>See also</i> OERA
OESQ	Orthogenetic
OEST	Parthenogenetic
OESW	Dimorphic females
OET	Teratological. Teratology
OETA	Hemiteratics
OETB	Anomalies of form (Dwarfs and giants)
OETC	Abnormalities
OETD	Sinistral whorling
OETE	Ribbing
OETF	Abnormal larvæ
OETJ	Abnormalities of parts as:
OETK	Cranium
OETL	Antlers
OETM	Dentition
OETN	Muscles, etc.
OETR	Reduplication and absence of parts
OETS	Polydactylism
	Albinism and Melanism <i>See</i> OERE
OETV	Heterotaxis (Transposition of viscera)
OETX	Gynandromorphism. Hermaphroditism
OETZ	Monstrosities

- OEU Homology *See also* Biology
 OEUA Serial
 OEUC Antimeric
 OEUK Special (i. e. particular organs and parts)
- OEUR Analogy *See also* Biology
- OEV Adaptation, Convergence, etc.
- OEW Adaptation
 OEWA Benthonic
 OEWE Planktonic
 OEWI Mechanical
 OEWO Local
 OEW P Adaptation to local color *See also* OEP
 OEWV Convergence *See also* Biology
- OEX Hexiology (Environment effects)
- OEXA Mechanical (Gravity, Atmosphere, Pressure)
 OEXB Physical (Light and darkness. Temperature)
 OEXC Chemical
 OEXF Food. Diet. Food relations
 OEXG Carnivorous phenomena (among herbivorous animals)
 OEXJ Confined space
 OEXL Currents of water
 OEXN Action of wind
 OEXP Climate. Phænology
 Migration *See* OEP
 OEXX Extinction of races
- OEY Hybridity *See* Biology for subdivisions
 Heredity *See* Biology
 Aetiology *See* Biology
- OEZ Animals in relation to man
- OEZA Useful animals. Pets
 OEZE Noxious animals. Pests *See also* Agriculture
 OEZM Menageries

SYNOPSIS

OG Descriptive zoology

OGA	Geographical zoology
OGE	Invertebrata
OGF	Protozoa
OGZ	Metazoa
OH	Porifera
OHY	<i>Enterozoa</i>
OHZ	<i>Radiata</i>
OI	Coelenterata
OIS	Ctenophora
OIZ	<i>Coelomata</i>
OJ	Echinodermata
OJZ	<i>Vermes</i>
OK	Platyhelminia
OKS	Nemertea
OKT	Nemathelminia
OL	Trochelmia
OM	Mollusca
ON	Annelida
OP	Polyzoa
OQ	Brachiopoda
OQT	Chaetognatha
OR	Arthropoda
ORF	Myriapoda
ORN	Arachnida
OT	Crustacea
OTY	Chilopoda
OU-OW	Hexapoda (Entomology)
OWX	Economic entomology
OWZ	Parasites

OX	Chordata
OY	Hemichordata
OZ	Protochordata
P	Vertebrata
PA	Cyclostomata
PB	Ostracodermi
PC	Pisces <i>Ichthyology</i>
PCA	Elasmobranchii
PCP	Dipnoi
PD	Teleostomi
PE	Amphibia
PF	Reptilia <i>Herpetology</i>
PG	Aves <i>Ornithology</i>
PH	Mammalia
PHA	Prototheria
PHY	Eutheria
PI	Marsupialia
PIN	Effodientia
PJ	Edentata
PK	Ungulata
PL	Sirenia
PM	Cete (Cetacea)
PN	Ferae (Carnivora)
PO	Creodonta
PP	Glires (Rodentia)
PQ	Tillodontia
PR	Insectivora
PS	Chiroptera
PT	Primates
PU	Economic zoology

This classification has been carried out to families and sub-families only in the Chordata, and even there not in the class Pisces. To have done the same for the Invertebrates would not only have enormously enlarged the classification, but, in the present state of knowledge, would, in many classes, have been confusing and unsatisfactory. Class-marks for the families among the invertebrates can be added by the librarian when necessary by following the plan adopted in the vertebrates.

Italicized scientific names indicate either obsolete terms or modern terms not formally adopted for this classification.

OG Descriptive zoology

OGA Geographical zoology (Geographical distribution)

SPECIAL FAUNA

- | | |
|------|---|
| OGAA | Terrestrial |
| OGAB | Alpine |
| OGAC | Cave (Including subterranean waters) <i>See also</i> OEBA |
| OGAD | Island |
| OGAE | Aquatic |
| OGAF | Planktonic. Plankton <i>See also</i> OEBP, OGDA |
| OGAG | Marine |
| OGAH | Littoral |
| OGAI | Nektonic Pelagic |
| OGAJ | Benthonic, Abyssal Bathybial <i>See also</i> OEBA |
| OGAK | Fluvialile and Lacustrine |
| OGAL | Lacustrine |
| OGAM | Crenic (Springs. Wells. Sinks) |
| OGAN | Aerial |

Faunal areas. Zoogeographical regions *See* OGA

The chief subdivisions (Palaeartic, Neartic, etc.) have been arranged according to Selater's classification. Any other system, however, can be used by adapting to it the sub-divisional class-marks.

- | | |
|-------|------------|
| OGAP | Palaeartic |
| OGAPA | European |
| OGAPE | Eremean |
| OGAPI | Chinese |

OGAQ	Nearctic
OGAQA	Canadian
OGAQK	Western
OGAQI	Eastern
OGAR	Palæotropical (Indo-African)
OGAS	Ethiopian (African)
OGASA	Saharan
OGASE	Malagasy
OGASI	West African
OGASO	Cape
OGASL	“Lemuria”
OGAT	Oriental (Indian)
OGATA	Indian
OGATE	Burmo-Chinese
OGATI	Malayan
OGATO	Celebesian May be put in OGAU if preferred
OGAU	Austro-Malayan
OGAV	Australasian
OGAVA	Austral (Australian)
OGAVE	Papuan
OGAVI	Maorian (Novozelanian)
OGAVO	Polynesian
OGAVU	Hawaiian
OGAW	Neotropical
OGAWA	Antillean
OGAWE	Central American
OGAWI	Guiano-Brazilian
OGAWO	Patagonian

Zones

OGAX	Holoarctic. Circumpolar
OGAY	Arctogea
OGAZ	Notogea

Geographical distribution by groups

Includes not only the distribution of phyla and classes, such as Molluscs, Chelouians, etc., but, with the addition of the country number, comprises the special faunas of particular countries, as Insects of New York, Fishes of India, etc.; reserving for Local faunas (OGV) the general works on the faunal representatives of any given country.

OGB Invertebrata

Subdivide this, and OGC, as in Descriptive Zoology, adding the characteristic letter or letters of the group and, when limited to particular countries, the country number, as: OGBW Distribution of Insects, OGBW51, Insects of New York; OGBN, Distribution of Mammals, OGBN51, Mammals of Massachusetts.

OGC Vertebrata

- OACC Fishes
- OACB Amphibians
- OACR Reptiles
- OACG Birds
- OACH Mammals
- OACT Monkeys *See also OGAHZ*

OGD Local faunas by countries

With local list

OGDA Planktonic faunas

With local list

OGDZ Zoological itineraries (Zoological expeditions and travels)

With local list

OGE Invertebrata

OGF Protozoa

OGG Sarcodina (Gymnomyxa)

OGH Mycetozoa (Myxomycetes. Myxogastres)

- OGHA Acanthamoebae
- OGHB Filoplasmodiaceae
- OGHC Myxomycetes

OGI Foraminifera (Reticularia. Testacea)

OGJ Rhizopoda

- OGJA Lobosa
- OGJE Filiosa

OGK Heliozoa

- OGKA Aphrothoraceae
- OGKC Chlamydomonadales
- OGKG Chalarothoraceae
- OGKM Desmothoraceae

OGL	Radiolaria
OGLB	Spumellaria (Periphylaea)
OGLE	Acantharia (Actipylaea)
OGLN	Nassellaria (Monopylaea)
OGLP	Phaeodaria (Cannopylaea)
OGM	Proteomyxa
OGMA	Myxozoa
OGMC	Catallacta
OGN	Sporozoa
OGO	Telosporidia
OGOA	Gregarinida
OGOC	Schizogregarinae
OGOE	Eugregarinae
OGOI	Coccidiae
OGOM	Haemosporidia
OGON	Haemosporea
OGOQ	Acystosporea
OGP	Nesosporidia
OGPA	Myxosporidia
OGPE	Actinomyxidiaceae
OGPI	Sarcosporidia
OGQ	Sporozoa incertae sedis
OGQA	Haplosporidia
OGQE	Serosporidia
OGQI	Exosporidia
OGQZ	Sporozoan hosts (arranged by classes)
OGR	Mastigophora
OGS	Flagellata (Enflagellata)
OGSA	Pantostomata
OGSE	Protomastigaceae
OGSH	Chryomonadaceae
OGSK	Cryptomonadaceae
OGSN	Volvocina
OGSR	Chloromonadaceae
OGSU	Euglenaceae
OGT	Silicoflagellata
OGU	Dinoflagellata
OGUA	Adinida
OGUD	Dinifera
OGUP	Polydinida

OGV	Cystoflagellata (Rhynchoflagellata)
OGW	Infusoria (Ciliophora)
OGX	Ciliata
OGXA	Holotricha
OGXC	Gymnostomata
OGXF	Hymenostomata
OGXH	Heterotricha
OGXK	Polytricha
OGXO	Oligotricha
OGXP	Hypotricha
OGXR	Peritricha
OGY	Acinetaria (Suctoria, Tentaculifera)
OGZ	Metazoa
OH	Porifera (Parazoa) <i>Sponges</i>
OH C	Calcarea (Calcispongiae)
OH D	Homocoela
OH E	Heterocoela
OH G	Myxospongiae
OH H	Hexactinellida (Hyalospongiae)
OH I	Amphidiscophora
OH L	Hexasterophora
OH O	Octactinellida
OH P	Heteractinellida
OH R	Demospongiae
OH S	Tetraxonida (Tetractinellida)
OH SC	Choristida
OH SL	Lithistida
OH U	Monaxonida
OH UA	Halieondrina
OH UE	Spintharophora (Hadromerina)
OH W	Ceratosa
OH WD	Dietyoceratina
OH WN	Dendroceratina
OH X	Porifera incertae sedis
OH Y	<i>Enterozoa</i>
OH Z	<i>Radiata</i>

OI	Coelenterata (<i>Coelentera</i> , <i>Enterocoela</i>)
OIA	Hydrozoa (Hydromedusae. Hydroida)
OIB	Eleutheroblastea (Hydridae)
OIC	Milleporina (Hydrocorallina)
OID	Gymnoblasterea (Anthomedusae)
OIDH	<i>Hydroid</i>
OIDM	<i>Medusoid</i>
OIE	Calyptoblastea (Leptomedusae)
OIEH	<i>Hydroid</i>
OIEM	<i>Medusoid</i>
OIF	Graptolithoidea
OIG	Stylasterina (Hydrocorallina in p't)
OIH	Trachomedusae
OII	Narcomedusae
OIJ	Siphonophora
OIJG	Calycephorae
OIJH	Physophorae
OIJY	Hydrozoa incertae sedis
OIJZ	<i>Acalephae</i>
OIK	Scyphozoa (Scyphomedusae) <i>Jelly-Fish</i>
OIL	Cubomedusae
OIM	Stauromedusae
OIN	Coronata (Peromedusae in p't)
OIO	Discophora
OIOA	Semaeostomata
OIOE	Rhizostomata
OIP	Anthozoa (Actinozoa) <i>Corals</i>
OIQ	Alcyonaria
OIQA	Proboalcyonacea
OIQC	Synalcyonacea
OIQD	Stolonifera
OIQG	Coenothecalia
OIQI	Alcyonacea

OIQK	Gorgonacea
OIQI	Pseudaxonia
OIQN	Axifera
OIQP	Pennatulacea (Stelechotokea)
OIQB	Pennatulaceae
OIQS	Spicatae
OIQT	Verticilladeae
OIQV	Renilleae
OIQV	Veretilleae
OIR	Zoantharia
OIRA	Edwardsiidea (Incl. Protactiniae)
OIRC	Actiniaria
OIRM	Madreporaria
OIRP	Zoanthidea
OIRT	Antipathidea (Antipatharia)
OIRW	Cerianthidea
OIS	Ctenophora
OIT	Tentaculata
OIU	Cydippidea
OIV	Lobata
OIW	Cestoidea
OIX	Platyctenea
OIY	Nuda
OIYB	Beroidea
OIZ	<i>Coelomata (Coelomocoela)</i>
OJ	Echinodermata
OJA	Eleutherozoa
OJC	Asteroidea. <i>Starfishes</i>
OJCA	Spinulosa
OJCE	Velata
OJCI	Paxillosa
OJCO	Valvata
OJCU	Forcipulata
OJD	Ophiuroidea. <i>Brittle stars</i>
OJDA	Lysophiuræ
OJDE	Streptophiuræ
OJDI	Zygophiuræ
OJDO	Cladophiuræ

OJB	Echinoidea. <i>Sea urchins</i>
OJF	Endocyclica
OJG	Clypeastroidea
OJGA	Protoclypeastroidea
OJGE	Euclypeastroidea
OJH	Spatangoidea
	If Bather's classification of the Echinoidea is used the marks will be: OJF Regularia endobranchiata; OJG Regularia ectobranchiata; OJH Irregularia
OJK	Holothuroidea. <i>Sea cucumbers</i>
OJKA	Aspidochirota
OJKE	Elasipoda
OJKH	Pelagothuriida
OJKL	Dendrochirota
OJKM	Molpadiida
OJKS	Synaptida
OJL	Pelmatozoa
OJM	Crinoidea <i>Sea lilies</i>
OJQ	Inadunata
OJR	Articulata
OJS	Camerata
OJT	Edrioasteroidea (Thecoidea)
OJU	Carpoidea
OJV	Cystoidea
OJW	Blastoidea
	<i>Articulata</i> See OR
	<i>Annulosa</i> See ON
OJZ	<i>Vermes</i>
	This term, which represents a heterogeneous assemblage of worm-like creatures, is now rarely used—the members of the group having been distributed among the Platyhelminthes, Nematelminthes, Trochelminthes, and Annelida. The entry, however, must be included in the classification in order to accommodate the former publications under this grouping. The same remark applies to the Cuvierian Radiata, Articulata and Annulosa, as well as to the earlier constituted Molluscoidea.
OK	Platyhelminthes (Platyhelmintha)
OKA	Turbellaria (Planaria)
OKB	Rhabdocoelida
OKBA	Rhabdocoela

OKBE	Alloiocoela
OKBI	Acoela
OKC	Triclada (Tricladida. Dendrocoela)
OKD	Polyclada (Polycladida. Cryptocoela)
OKE	Temnocephaloidea
OKED	Dactylifera
OKF	Trematoda
OKG	Heterocotylea (Pectobothrii. Polysotomea. Monogenea)
OKH	Aspidocotylea (Aspidobothrii)
OKI	Malacocotylea (Malacobothrii. Distomea. Digenea)
OKJ	Cestoidea (Cestoda)
OKK	Cestoidea monozoa
OKKA	Amphilinacea
OKKG	Gyrocotylacea
OKKL	Caryophyllacea
OKL	Cestoidea merozoa
OKLD	Dibothridiata
OKLF	Pseudophyllidea
OKLH	Tetrabothridiata
OKLI	Tetraphyllidea
OKLI.	Diphyllidea
OKLP	Tetrarhyncha
OKLT	Tetracotylea
OKM	Rhombozoa
OKMD	Dicyemida
OKMH	Heterocyemida
OKO	Orthonectida
OKR	<i>Rhynchocoela</i>
OKS	Nemertea (Nemertini)
OKSA	Dimyaria
OKSB	Protoneimertini Palæonemertea in p't.
OKSH	Mesonemertini Palæonemertea in p't.
OKSM	Metanemertini (Hoploneimertea)
OKST	Trinyaria
OKSU	Heteroneimertini Schizoneimertea

OKT	Nemathelmia (Nemathelminthes)
OKU	Nematoidea (Nematoda) <i>Thread-worms</i>
OKW	Nematomorpha
OKY	Acanthocephala
OL	Trochelmia (Trochelminthes)
OLA	Rotifera (Rotatoria)
OLB	Flosculariaceae
OLC	Melicertaceae
OLD	Bdelloida
OLE	Asplanchnaceae
OLF	Ploima
OLG	Iloricata
OLH	Loricata
OLJ	Scirtopoda
OLK	Seisonaceae
OLO	Gastrotricha
OLP	Euichthydina
OLQ	Apodina
OLT	Kinorhyncha (Echinoderidae)
OM	Mollusca
OMA	Amphineura (Isopleura. Placophora)
OMB	Polyplacophora
OMC	Aplacophora (Solenogastres)
OMD	Neomenioidea
OME	Chaetodermoidea
OMG	Gasteropoda (Gastropoda)
OMH	Streptoneura (Prosobranchiata)
OMI	Scutibranchia (Aspidobranchiata. Diotocardia)
OMD	Docoglossa
OMR	Rhipidoglossa
OMJ	Pectinibranchia (Ctenobranchia. Monotocardia)

OMJB	Ptenoglossa
OMJC	Taenioglossa
OMJD	Platyoda
OMJE	Heteropoda
OMJG	Gymnoglossa
OMJQ	<i>Stenoglossa</i>
OMJR	Rachiglossa
OMJT	Toxoglossa
OMK	Euthyneura
OML	Opisthobranchia
OMM	Tectibranchia
OMMN	Nudibranchia
OMMR	<i>Ascoglossa</i>
OMN	Pteropoda
OMNG	Gymnosomata
OMNT	Thecosomata
OMO	Pulmonata
OMOB	Basommatophora
OMOS	Stylommatophora
OMP	Scaphopoda (Solenocoelata)
OMQ	Pelecypoda (Lamellibranchiata. Acephala)
OMQP	Protobranchia
OMR	Filibranchia
OMRA	Anomiacea
OMRC	Arcacea
OMRM	Mytilacea
OMS	Pseudolamellibranchia
OMT	Eulamellibranchia
OMTA	Submytilacea
OMTC	Tellinacea
OMTG	Veneracea
OMTK	Cardiacea
OMTM	Myacea
OMTP	Pholadacea
OMTR	Anatinacea

OMTS	Septibranchia
OMU	Cephalopoda
OMV	Tetrabranchia
OMVN	Nautiloidea (Tentaculifera)
OMW	Ammonoidea
OMX	Dibranchia (Acetabulifera)
OMY	Decapoda
OMYE	Oigopsida
OMYM	Myopsida
OMZ	Octopoda
ON	Annelida (Annulata. Annulosa).
ONA	Chaetopoda
ONB	Oligochaeta
ONC	Naidomorpha (Microdrili)
OND	Lumbricomorpha (Megadrili)
ONF	Polychæta
ONG	Phanerocephala
ONH	Nereidiformia
ONI	Spioniformia
ONJ	Capitelliformia
ONK	Scoleciformia
ONL	Terebelliformia
ONM	Cryptocephala
ONN	Sabelliformia
ONO	Hermelliformia
ONQ	Haplodrili (Archiannelida)
ONR	Myzostomida
ONS	Hirudinea (Discophora)
ONT	Rhynchobdellae
ONU	Gnathobdellae
ONV	Echiuroidea (Gephyrea in part)

ONW	Gephyrea
ONX	Sipunculoidea
ONY	Priapulioidea
ONZ	Epithetosomatoidea
OO	<i>Molluscoidea</i>
OP	Polyzoa (Bryozoa)
OPA	Entoprocta
OPE	Ectoprocta
OPG	Gymnolaemata
OPH	Cyclostomata
OPK	Trepostomata
OPM	Cheilostomata
OPN	Ctenostomata
OPP	Phylactolaemata
	Phoronidea <i>See</i> OYA
OQ	Brachiopoda
OQA	Ecardines (Inarticulata. Tretenterata)
OQE	Atremata
OQN	Nectremata
OQP	Testicardines (Articulata. Clistenterata)
OQQ	Protremata
OQR	Telotremata
OQT	Chaetognatha
OR	Arthropoda (Articulata, <i>Cuv.</i> Tracheata ex. Crustacea)
ORA	Hyarthropoda [<i>Hypothetical group</i>]
ORB	Protarthropoda
ORC	Onychophora (Protracheata)
ORE	Euarthropoda
ORF	Myriapoda
ORG	Protosyngnatha
	Chilopoda (Syngnatha) <i>See</i> OTY
ORH	Archipolypoda

ORI	Chilognatha (Diplopoda)
ORJ	Schizotarsia
ORK	Symphyla
ORL	Paupoda
ORN	Arachnida
ORO	Trilobitae
ORT	Pantopoda
ORU	Nymphonomorpha
ORV	Ascorhynchomorpha
ORW	Pycnogonomorpha
OS	Euarachnida <i>Spiders, Scorpions, etc.</i>
OSA	Delobranchia (Hydropneustea)
OSB	Xyphosura (Poecilopoda)
OSD	Gigantostraca (Palaeocarida)
OSDA	Pterygotomorpha
OSDE	Eurypteromorpha
OSE	Embolobranchia (Aeropneustea)
OSF	Scorpionidea
OSFA	Apoxypoda
OSFD	Dionychopoda
OSH	Pedipalpi (Thelyphonidae)
OSHA	Uropygi
OSHE	Amblypygi
OSK	Araneida (Araneae)
OSKM	Mesothelae
OSKC	Opisthothelae
OSL	Palpigradi (Microthelyphonida)
OSN	Solpugida (Solifugae, Mycetophorae)
OSP	Pseudoscorpiones (Chelonethi)
OSPA	Panteno-dactyli
OSPH	Hemicteno-dactyli
OSQ	Podogona (Meridogastra)
OSR	Opiliones (Phalangidea)
OSRL	Laniatores
OSRP	Palpatores
OSRS	Anepignathi
OST	Rhynchostomi (Acarida. Acarina)
OSTC	Cryptostigmata
OSTM	Metastigmata
OSTP	Prostigmata
OSTQ	Astigmata
OSTR	Vermiformia
OSTT	Tetrapoda

08U	Arctisea (Tardigrada, Macrobiotida, Colpoda)
08W	Pentastomoidea (Pentastomida, Linguatulina)
0T	Crustacea (<i>Branchiata</i>)
0TA	Malacostraca
0TB	Thoracostraca
0TC	Cumacea
0TD	Stomatopoda
0TE	Schizopoda
0TF	Decapoda <i>Shrimps, Lobsters and Crabs</i>
0TFB	Brachyura
0TFM	Macrura
0TG	Arthrostraca
0TH	Amphipoda
0TI	Isopoda
0TJ	Leptostraca
0TK	Entomostraca
0TL	Phyllopoda
0TM	Cladocera
0TN	Branchiopoda (Euphyllopoda)
0TO	Ostracoda
0TP	Copepoda
0TQ	Branchiura
0TR	Encopepoda
0TS	Cirripedia (Thyrostraca)
0TT	Theracica
0TU	Ascothoracica
0TV	Abdominalia
0TW	Apoda
0TX	Rhynchocephala
0TY	Chilopoda (Syngnatha)
0U	Hexapoda (Insecta— <i>apud auct. recen.</i>) <i>Entomology</i>
0UA	Ametabola (Aptera, Apterygota)
0UB	Collembola
0UC	Thysanura
0UD	Mallophaga
0UE	Anophura (Pediculina, Parasitica)
0UF	Aphaniptera (Siphonaptera, Suetoria)
0UH	Hemimetabola (Exopterygota)
0UI	Orthoptera
0UIE	Cursoria
0UIG	Gressoria
0UIS	Saltatoria

OUM	Amphibiotica
OCMA	Plecoptera (Perlidae)
OCMC	Odonata
OFME	Ephemeroidea (Agnathi)
OUP	Pseudoneuroptera (<i>Corrodentia</i>)
OUPF	Embiidae
OUPM	Termitidae (<i>Isoptera</i>)
OUPP	Psocidae
OUR	Thysanoptera (Physonoda)
OUS	Hemiptera (Rhynchota)
OUSH	Heteroptera
OUSM	Nomoptera
	Parasitica See OUE
OUT	Metabola (Holometabola. Endopterygota)
OUI	
OUIA	
OUIB	
OUIW	Neuroptera
OUIWA	Planipennia
OUIWM	Mecoptera (Mecaptera. Panorpatae)
OUIWT	Trichoptera
OIV	
OIVA	Lepidoptera
OIVA	Rhopalocera (Macrolepidoptera) <i>Butterflies</i>
OIVB	Heterocera (Microlepidoptera) <i>Moths</i>
OIVH	
OIVH	Coleoptera
OIVK	Lamellicornia
OIVL	Adephaga (Caraboidea)
OIVM	Polymorpha (incl. Clavicornia, Sericornia)
OIVP	Heteromera
OIVQ	Phytophaga
OIVR	Rhynchophora
OIVS	
OIVS	Strepsiptera
OIVT	
OIVT	Diptera
OIVU	Orthorhapha
OIVV	Cyclorhapha
OIVW	Pupipara

Ow	Hymenoptera
OWA	Sessiliventres (Phytophaga. Securi- fera)
OWD	Petiolata (Petioliventres. Apocrita)
OWG	Parasitica (Terebrantia)
OWJ	Tubulifera
OWL	Aculeata <i>Bees, Wasps and Ants</i>
OWN	Anthophila (Apidae) <i>Bees</i>
OWP	Diptera <i>Wasps</i>
OWR	Fossores
OWT	Heterogyna (Formicidae) <i>Ants</i>

OWX Economic entomology

If preferred, books may be put under Economic
Zoology (Pt.1)

OWZ Parasites. General works; If not put in OEJ:
Particular parasites are referred to the classes to
which they belong. *See* OEJ-OEJZ, OUE, OWG

OX Chordata

OY	Hemichordata (Adelochorda)
OYA	Vermiformia (Phoronidea)
OYC	Pterobranchia (Cephalodiscidae. Rhabdopleuridae)
OYE	Enteropneusta
OYG	Glandiepitidae
OYH	Harrimaniidae
OYP	Ptychoderidae

OZ Protochordata

OZA	Urochorda (Tunicata)
OZC	Copelatae
OZD	Larvacea (Larvalia)
OZDA	Appendiculariidae
OZDK	Kovalevskiidae

OZE	Acopa
OZF	Ascidacea
OZG	Monascidiae (Simplices)
OZGA	Aseidlidae
OZGB	Asciidiinae
OZGC	Corellinae
OZGH	Hypobythlinae
OZH	Clavellinidae
OZI	Cynthiidae
OZIB	Bolteninae
OZIC	Cynthiinae
OZIS	Styelinae
OZK	Molgulidae
OZM	Synascidiae (Compositae)
OZMB	Botryllidae
OZMC	Coelocormidae
OZMD	Didemnidae
OZMG	Diplosomatidae
OZMI	Distomatidae
OZMP	Polycliniidae
OZMR	Polystyelidae
OZN	Luciæ (Salpiformes)
OZNP	Pyrosomatidae
OZP	Thaliacea
OZQ	Cyclomyaria
OZQB	Doliolidae
OZR	Desmomyaria (Hemimyaria)
OZRO	Octacnemidae
OZRS	Salpidae
OZT	Cephalochordata (Acrania. Leptocardii)
OZU	Amphioxi (Cirrhostomes)
OZV	Branchiostomidae
P	Vertebrata (Craniata)
PA	Cyclostomata (Marsipobranchii)
PAA	Hypotreta (Myxinoïdes)
PAH	Heptatremidae
PAM	Myxinidae
PAO	Hyperoartia (Petromyzontes)
PAP	Petromyzontiidae

PAR	Cycliae
PAS	Palaeospondylidae
PB	Ostracodermi (Ostracophori)
PBA	Heterostraci
PBC	Coelolepidae
PBD	Drepanaspidae
PBG	Psammosteidae
PBK	Pteraspidae
PBO	Osteostraci (Aspidocephali)
PBP	Ateleaspidae
PBQ	Cephalaspidae
PBR	Euphaneropidae
PBS	Tremataspidae
PBT	Antiarchi
PBU	Asterolepidae
PBV	Ceraspidae
PBX	Anaspida
PBY	Birkeniidae

PC Pisces *Fishes. Ichthyology*

Owing to the exceptionally large number of families and sub-families in this class, it has been thought best to omit the family names. In case it should be necessary to class mark for families the latter may be arranged alphabetically under their appropriate orders or sub-orders, with the addition of a letter, or letters, to the class-mark. Thus, if PDC=Percoidae, Percidae will be PDCC

PCA	Elasmobranchii (Plagiostomi. Chondtopterygii)
PCB	Plagiostoma
PCc	Plenropterygii (Cladoselae)
PCd	Xenacanthini (Ichthyotomi)
PCe	Acanthodei (Acanthodini)
PCF	Selachii
PCG	Protoselachii
PCH	Euselachii
PCK	Raiae (Batoidei) <i>Rays. Skates</i>
PCL	Holocephali
PCO	Ichthyodorulites Fossil remains (fin spines) of extinct Elasmobranchs not sufficiently complete for classification. Arrange alphabetically by "generic" name

PCP	Dipnoi (Dipneusti)
PCQ	Ctenodipterini
Pcs	Sirenoidei
PCT	Arthrodira
PCU	Temnothoraci
PCW	Arthrothoraci
PD	Teleostomi <i>Ganoids and Bony fishes</i>
PDA	Crossopterygia
PDAB	Haplisia
PDAB	Rhipidistia (Cyclodipterini)
PDAT	Actinistia
PDAL	Cladistia
PDB	Actinopterygia <i>Ganoids</i>
PDBC	Chondrostei
PDBP	Protospondyli (Holostei in p't)
PDBU	Aethespondyli (Holostei in p't)
PDC	'Teleostei <i>Bony fishes</i>
PDCZ	Ostariophysi
PDD	Nematognathi
PDE	Plectospondyli
PDEE	Eventognathi
PDEH	Heterognathi
PDEN	Gymnonoti
PDF	Scyphophori
PDG	Symbbranchia
PDH	Carenehelyi
PDI	Apodes
PDJ	Lyomeri
PDK	Isospondyli
PDL	Iniomi
PDM	Heteromi
PDMZ	Lyopomi
PDN	Xenomi
PDO	Haplomi
PDF	Synentognathi
PDQ	Selenichtlys
PDR	Thoracostei (Catosteomi in p't)
PDRH	Hemibranchii
PDRL	Lophobranchii
PDS	Hypostomides
PDT	Percesoces
PDU	Anacanthini

PDV	Acanthopterygii
PDVA	Berycoidea
PDVC	Percioidea
PDVE	<i>Squamipinnes</i>
PDVF	Chaetodontoida (incl. Tenthidoidea)
PDVH	Holeonoti
PDVJ	Chromides
PDVL	Labroidea (Pharyngognathi in p't)
PDVN	Scombroidea
PDVP	Zeoidea (incl. Heterosomata and Zeorhombi)
PDVS	Kurtiformes
PDVT	Gobioidea
PDVU	Diseocephali
PDVX	<i>Cataphracti</i>
PDW	Scleroparei (Loricata and Craniomi)
PDWC	Jugulares
PDWD	Trachinoidea
PDWF	Xenopterygii
PDWH	Blennoidea
PDWJ	Haplodoci
PDWD	Ophidioida
PDWN	Taeniosomi
PDWO	Opisthomi
PDWP	Pediculati
PDWR	Plectognathi
PDWS	Sclerodermi (incl. Ostracodermi)
PDWU	Gymnodontes
PDWZ	Otoliths Fossil ear-bones. Arrange alphabetically without subdivision
PDX	Ocean ichthyology (General works) <i>Or in Pc</i>
PDY	Deep-sea fishes
PE	Amphibia
PEA	<i>Phractamphibia</i>
PEB	Stegocephalia (Labyrinthodontia)
PEC	Apoecospondylii (Temnospondyli. Stereospondyli)
PED	<i>Rachitomi. Embolomeri</i>
PEDA	Anthracosauridae
PEDAR	Archegosauridae (Trimerorhachidae)
PEDC	Cricotidae
PEDD	Dendrerpetontidae (Baphetidae)
PEDE	Eryopidae
PEDL	Labyrinthodontidae

PEDM	Mastodonsauridae
PEDN	Nyraniidae
PEDS	Sauropleuridae (Colosteidae)
PEH	Microsauria (Lepospondyli. Aistopoda)
PEHD	Diplocaulidae
PEHDO	Dolichosomatidae
PEHI	Hylonomidae
PEHLL	Limnerpetontidae
PEHM	Molgophidae (Phlegethontiidae)
PEHP	Protritonidae (Branchiosauridae)
PEHPT	Ptyoniidae (Urocordylidae)
PEHT	Tuditanidae (Microbraehidae)
PEL	<i>Lissamphibia</i>
PEO	Ophiomorpha (Apoda. Gymnophiona)
PEOC	Caeciliidae
PEQ	Urodela (Caudata)
PER	Perennibranchiata (<i>Phanicrobranchia</i>)
PERP	Proteidae
PERS	Sirenidae
PES	<i>Deotremata</i> (<i>Cryptobranchia</i>)
PESA	Amphiumidae
PESC	Cryptobranchidae
PESH	Hylaobatrachidae
PET	Salamandrina
PETS	Salamandridae
PEU	Anura (Ecaudata. Salicentia)
PEV	Aglossa
PEVD	Dactylethridae (Xenopodidae)
PEVP	Pipidae
PEW	Phaneroglossa (Arcifera. Firmisternia)
PEWA	Asterophrydidae
PEWAM	Amphignathodontidae
PEWB	Bufoinidae
PEWC	Ceratobatrachidae
PEWCO	Colostethidae
PEWCP	Cophylidae
PEWCY	Cystignathidae
PEWD	Dendrobatidae
PEWDE	Dendrophryniscidae
PEWDI	Discoglossidae
PEWDY	Dyscophidae

PEWE	Engystomatidae
PEWG	Genyophrynidae
PEWH	Hemiphraetidae
PEWHV	Hylidae
PEWP	Pelobatidae
PEWPE	Pelodytidae
PEWR	Ranidae
PEY	<i>Amphibia incertae sedis</i>

Arrange alphabetically by generic name

PFZ *Sauropsida (Reptilia and Aves)*

PF *Reptilia Reptiles Herpetology*

PFA Synapsida

PFAC Cotylosauria (Pareiasauria)

PFACP Pareiasauridae

PFACPA Pariotichidae

PFAL Chelydosauria

PFALD Dialectidae

PFALO Otocoelidae

PFB Anomodontia (Theromorpha)

PFBA Theriodontia

PFBE Therocephalia

PFBEA Aelurosauridae

PFBED Deuterosauridae

PFBES Scylacosauridae

PFBFI Cynodontia

PFBFI Cynognathidae

PFBFI Gomphognathidae

PFBFI Lycosauridae

PFBFO Dicynodontia

PFBFO *Cistecephalidae*

PFBFO Dicynodontidae

PFBFO Endothiodontidae

PFBFO Lystrosauridae

PFC Placodontia

PFC Placodontidae

PFDD Sauropterygia

PFDD Nothosauria

PFDD Nothosauridae

PFDD Plesiosauria

PFDD Elasmosauridae

PFDD Plesiosauridae

PFDD Pliosauridae

PFE	Testudinata (Chelonia)
PFEA	Atheca
PFEAD	Dermochelydidae (Sphargididae)
PFEC	Thecophora
PFEG	Pleurodira
PFEGC	Carettochelydidae
PFEGCH	Chelydidae
PFECP	Pelomedusidae
PFEGPL	Pleurosternidae (<i>Baenidae</i>)
PFECPN	Plesiochelydidae
PFECS	<i>Sternohaeridae</i>
PFEK	Cryptodira
PFEKA	Adocidae
PFEKAN	Anostiridae (Pseudotrionychidae)
PFEKC	Cheloniidae (Chelonidae)
PFEKCH	Chelydridae
PFEKCI	Cinosternidae
PFEKD	Dermatochelydidae
PFEKE	Emydidae
PFEKP	Platysternidae
PFEKPR	Protostegidae
PFEKT	Testudininae (Chersidae)
PFEKTH	Thalassemydidae (Propleuridae)
PFEKTO	Toxoehelydidae
PFET	Trionychia (Trionychoidae)
PFETP	Plastomenidae
PFETT	Trionychidae
FFF	Diapsida
PFG	Diaptosauria
PFGA	Procolophonia
PFGD	Protosauria
PFGDP	Palaeohatteridae
PFGDPR	Protosauridae
PFGH	Proganosauria (Mesosauria)
PFGHM	Mesosauridae
PFGN	Gnathodontia (Rhynchosauria)
PFGNR	Rhynchosauridae
PFGP	Pelycosauria
PFGPB	Bolosauridae
PFGPC	Clepsydropidae (Edaphosauridae)
PFGQ	Choristodera (Simaedosauria)
PFGQC	Champsosauridae

PFGR	Rhynchocephalla (Sphenodontina)
PEGRA	Acrosauridae
PEGRP	Pleosauridae
PEGRS	Sphenodontidae
PFH	Parasuchia (Thecodontia)
PFHA	Aetosauria (Pseudosuchia)
PFHAA	Aetosauridae
PFHP	Phytosauria
PFHPF	Phytosauridae (Belodontidae)
PFI	Ichthyosauria (Ichthyopterygia)
PFIB	Baptanodontidae
PFIF	Proteosauridae
PFK	Crocodylia (Loricata, Cataphracta, Emydosauria)
PEL	Mesosuchia
PELO	Goniopholidae
PELT	Teleosauridae
PEM	Eusuchia
PEMA	Atoposauridae
PEMC	Crocodylidae
PEMG	Gavialidae
PEMM	Macrorhynchidae
PEX	Thalattosuchia
PEXM	Metriorhynchidae
PFO	Dinosauria
PEP	Theropoda (incl. Megalosauria, Symphypoda, Saurischia, Coelipoda)
PEPA	Anchisauridae (Amphisauridae)
PEPC	Ceratosauridae
PEPCO	Coeluridae
PEPCP	Compsognathidae
PEPH	Hallopodidae
PEPM	Megalosauridae (incl. Allosauridae, Labrosauridae)
PEPO	Ornithomimidae
PEPZ	Zauclodontidae (Plateosauridae)
PEQ	Opisthocoelia (Sauropoda, Cetiosauria)
PEQA	Atlantosauridae (Camarasauridae)
PEQD	Diplodocidae
PEQM	Morosauridae (Cetiosauridae)
PEQT	Titanosauridae
PEE	Orithopoda (Preidentata)
PEEA	Stegosauria (Stegosaurioidea)
PEEAA	Nodosauridae
PEEAA	Scelidosauridae
PEEAA	Stegosauridae

PERE	Ceratopsia (Ceratopsoidea)
PEREC	Ceratopsidae
PERI	Iguanodontioidea (Ornithopoda)
PERIC	Camptosauridae (Camptonotidae)
PERIH	Hypsilophodontidae
PERII	Iguanodontidae
PERIM	Macelognathidae
PERIN	Nanosauridae
PERIT	Trachodontidae (Hadrosauridae)
PFS	Squammata (Lepidosauria. Plagiotremata)
PFT	Pythonomorpha (Mosasauria)
PFTD	Dolichosauri
PFTDD	Dolichosauridae
PFTDP	Plioplatycarpidae
PFTM	Mosasauri
PFTMM	Mosasauridae
PFTMN	Mosasaurinae
PFTMP	Platecarpinae
PFTMT	Tylosaurinae
PFU	Lacertilia
PFUA	Agamidae
PFUAM	Amphisbaenidae
PFUAN	Anelytropidae
PFUD	Dibamidae
PFUG	Geckonidae
PFUGE	Gerrhosauridae
PFUH	Helodermatidae
PFUI	Iguanidae
PFUL	Lacertidae
PFULA	Lanthanotidae
PFUP	Pygopodidae
PFUS	Scincidae
PFUT	Tejidae *
PFUTR	Trogonophidae
PFUU	Uroplatidae
PFUV	Varanidae
PFUX	Xantusiidae
PFUXE	Xenosauridae
PFUXE	Zonuridae
PFV	Rhoptoglossa
PFVC	Chamaeleontidae

	Ophidia (Serpentes) <i>Snakes</i>
PFW	
PFWA	Acrochordidae
PFWAM	Amblycephalidae
PFWAT	Atraetaspidae
PFWB	Boidae
PFWC	Causidae
PFWCH	Charinidae
PFWCO	Colubridae
PFWCOA	Aglyphae
PFWCOC	Colubrinae
PFWCOD	Dasypeltinae (Rachlodontinae)
PFWCOO	Opisthoglyphae
PFWCOP	Dipsadomorphinae
PFWCOQ	Elachistodontinae
PFWCOR	Homalopsinae
PFWCOT	Proteroglyphae
PFWCOU	Elapinae
PFWCOV	Hydrophinae <i>Water-snakes</i>
PFWCR	Crotalidae <i>Rattlesnakes</i>
PFWD	Dendraspididae
PFWDR	Dryophidae
PFWG	Glauconidae
PFWI	Ilysiidae
PFWL	Lycodontidae
PFWP	Palaeophidae
PFWPV	Pythonidae
PFWT	Tortricidae
PFWTY	Typhlopidae
PFWU	Ungaliidae
PFWUR	Uropeltidae (Rhynchophidae)
PFWV	Viperidae
PFWX	Xenopeltidae
PFX	Pterosauria (Ornithosauria)
PFXN	Nyctosauridae
PFXO	Ornithocephalidae (Pterodactylidae)
PFXOR	Ornithocheiridae
PFXP	Pteranodontidae (Ornithostomatidae)
PFY	<i>Reptilia incertae sedis</i> Arrange alphabetically by generic name
PFZ	<i>Saurictnites</i> (Fossil footprints of reptiles) Arrange alphabetically by name
PG	Aves <i>Birds. Ornithology</i>
PGA	Saururae (Archaeornithes Saurornithes)

PGB	<i>Ornithopappi</i>
PGBA	Archaeopterygidae
PGE	Eurhipidurae (Neornithes. Ornithurae)
PGF	<i>Dromaeognathi</i>
PGH	Ratitae
PGI	Rheiformes (Rheae)
PIIR	Rheidae
PGJ	Struthioniformes
PGKS	Struthionidae
PGK	Casuariiformes (Megistanes)
PGKC	Casuariidae
PGKD	Dromaeidae
PGKDR	Dromornithidae
PGL	Didornithiformes (Immanes)
PGLD	Dinornithidae
PGLP	Palapterygidae
PGM	Aepyornithiformes
PGMA	Aepyornithidae
PGN	Apterygiformes
PGNA	Apterygidae
PGO	Odontolcae (Odontornithes)
PGOE	Enaliornithidae
PGOH	Hesperornithidae
PGP	Euornithes
PGR	Carinatae
PGRA	Tinamiformes (Crypturi)
PGRAT	Tinamidae
PGRE	Galliformes
PGRC	Mesitae
PGRCM	Mesitidae
PGRD	Galli
PGRDC	Cracidae
PGRDCE	Cracinae
PGRDCE	Oreophasinae
PGRDCE	Penelopinae
PGRDM	Megapodiidae
PGRDME	Meleagridae
PGRDP	Phasianidae
PGRDPN	Numidinae
PGRDPO	Odontophorinae
PGRDEP	Phasianinae
PGRDT	Tetraonidae

PGRH	Hemipodii
PGRHP	Pedonomidae
PGRHT	Turnicidae
PGRJ	Pteroclidiformes
PGRJP	Pteroclididae
PGRK	Columbiformes
PGRKC	Cathartidae
PGRKO	Columbidae
PGRKP	Columbinae
PGRKQ	Peristerinae
PGRKS	Sturnoenadinae
PGRKZ	Zenaidinae
PGRLD	Diidae
PGRLDI	Didunculidae
PGRJG	Gouridae
PGRJT	Treronidae
PGRK	Opisthocomiformes
PGRKO	Opisthocomidae
PGRL	Ralliformes
PGRLR	Rallidae
PGRLEP	Fulicinae
PGRLEG	Gallinulinae
PGRLEK	Rallinae
PGRN	<i>Cecomorphae</i>
PGRQ	Podicipediformes
PGRQP	Podicipedidae
PGRP	Colymbiformes
PGRPC	Colymbidae
PGRQ	Sphenisciformes
PGRQC	Cladornithidae
PGRQS	Spheniscidae (Aptenodytidae)
PGRR	<i>Tubinares</i>
PGRS	Procellariiformes
PGRSO	Oceanitidae
PGRSP	Procellariidae
PGRSPD	Diomedeaenae
PGRSPP	Pelecanoidinae
PGRSPQ	Procellariinae
PGRT	Alciformes
PGRTA	Alcidae
PGRTU	Trinitoridae
PGRV	Lariformes
PGRVL	Laridae
PGRVLA	Larinae
PGRVLR	Rhynchopinae
PGRVLS	Stereorarininae
PGRVLT	Sternae

PGRW	Charadriiformes
PGRWA	Aphrizidae
PGRWC	Charadriidae
PGRWCC	Charadriinae
PGRWCD	Scolopacinae
PGRWCF	Tringinae
PGRWCH	Chionididae
PGRWG	Glareolidae
PGRWGD	Dromadinae
PGRWGG	Glareolinae
PGRWH	Haematopodidae
PGRWJ	Jacaniidae (Parridae)
PGRWO	Oedieniidae
PGRWP	Phalaropodidae
PGRWR	Recurvirostridae
PGRWT	Thinocorythidae
PGRX	Gruiformes
PGRXA	Aramidae
PGRXC	Cariamidae
PGRXE	Eurypygidae
PGRXG	Gruidae
PGRXH	Heliornithidae
PGRXO	Otididae
PGRXP	Psophiidae
PGRXR	Rhinocetidae
PGRY	Stereornithes
PGRYP	Phororachidae
PGS	<i>Ciconiiformes</i>
PGSA	<i>Herodii. Pelagomorphae</i>
PGSB	Ardeiformes
PGSBA	Ardeidae
PGSBB	Balaenicipitidae
PGSBC	Ciconiidae
PGSBI	Ibididae
PGSBJ	Ibidinae
PGSBK	Plataleinae
PGSBS	Scopidae
PGSC	<i>Chaenomorphae</i>
PGSD	Phoenicopteriformes
PGSDP	Palaeolodidae
PGSDPH	Phoenicopteridae
PGSE	Anseriformes
PGSF	Anhimoidea (Palamedeidae)
PGSFA	Anhimidae
PGSG	Anatoidea (Anseres)
PGSGA	Anatidae
PGSGAA	Anatinae
PGSGAB	Anseranatinae

PGSGAC	Anserinae
PGSGAD	Cereopsinae
PGSGAE	Chenonettinae
PGSGAF	Cygninae
PGSGAG	Erismaturinae
PGSGAI	Fuligulinae
PGSGAM	Merganettinae
PGSGAN	Merginae
PGSGAP	Plectropterinae
PGSGC	Cnemionithidae
PGSH	Gastornithiformes
PGSHG	Gastornithidae
PGSI	Ichthyornithiformes (Odontormae, Odontormae, Pteropappi)
PGSLA	Apatornithidae
PGSIU	Ichthyornithidae
PGSJ	<i>Steganopodes</i>
PGSL	Pelecaniformes
PGSLA	Anhingidae (Plotidae)
PGSLF	Fregatidae (Tachypetidae)
PGSLP	Pelagornithidae
PGSLPE	Pelecanidae
PGSLPH	Phaethontidae
PGSLPI	Phalacrocoracidae
PGSLS	Sulidae
PGSN	<i>Raptores. Falconiformes</i>
PGSP	Cathartidiformes
PGSPC	Cathartidae (Sarcorhamphidae)
PGSR	Accipitriformes
PGSRF	Falconidae
PGSRFA	Accipitriuae
PGSRFB	Buteoninae
PGSRFC	Cerinae
PGSRFF	Falconinae
PGSRFG	Gypaëtinae
PGSRFM	Milvinae
PGSRFP	Polyborinae
PGSRG	Gypogeranidae (Serpentariidae)
PGSRP	Pandionidae
PGSS	Strigiformes
PGSSA	Aluconidae
PGSSS	Strigidae
PGSST	Buboninae
PGSSV	Striginae
PGST	Psittaciformes
PGSTP	Pionidae

PgSTPS	Psittacidae
PgSTPT	Cacatuinae (Plectolophinae)
PgSTPU	Conurinae
PgSTPV	Nasiterninae
PgSTPW	Palaeornithinae
PgSTPX	Platycercinae
PgSTPY	Psittacinae
PgSTS	Stringopidae
PgSTT	Trichoglossidae
PgSTTC	Cyclopsittacinae
PgSTTL	Loriinae
PgSTTN	Nestorinae
PgSW	<i>Picariae</i>
PgT	Coraciiformes
PgTA	Podargi
PgTAP	Podargidae
PgTAS	Steatornithidae
PgTC	Coraciae
PgTCC	Coraciidae
PgTCCC	Coraciinae
PgTCCL	Leptosomatinae
PgTCM	Momotidae
PgTCT	Todidae
PgTE	Halcyones
PgTEA	Alcedinidae
PgTEAL	Alcedininae
PgTEAH	Daceloninae (Halcyoninae)
PgTG	Bucerotes
PgTGB	Bucerotidae
PgTH	Upupae
PgTHI	Irrisoridae
PgTHU	Upupidae
PgTI	Meropes
PgTIM	Meropidae
PgTJ	Caprimulgi
PgTJC	Caprimulgidae
PgTJCC	Caprimulginae
PgTJCN	Nyctibiinae
PgTK	Cypseli
PgTKM	Macropterygidae (Dendrochelidontidae)
PgTKMI	Micropodidae (Cypselidae)
PgTKMJ	Chaeturinae
PgTKMK	Micropodinae (Cypselinae)
PgTL	Trochili
PgTLT	Trochilidae
PgTM	Trogones
PgTMT	Trogonidae

PGTP	Coccyges
PGTQ	Cuculi
PGTQC	Colidae
PGTQCC	Cuculidae
PGTQCE	Centropodinae
PGTQCG	Crotophaginae
PGTQCH	Cuculinae
PGTQCL	Diptopterinae
PGTQCN	Neomorphinae (Saurotherinae)
PGTQCP	Phoenicophainaе
PGTR	Musophagi
PGTRM	Musophagidae
PGTS	Scansores
PGTT	Indicatores
PGTTI	Indicatoridae
PGTU	Capitones
PGTUC	Capitonidae (Megalaemidae)
PGTUR	Rhamphastidae
PGTV	Piciformes
PGTVB	Bucconidae
PGTVG	Galbulidae
PGTVF	Picidae
PGTVPI	Iynginae
PGTVPP	Picinae
PGTVPQ	Picuminae
PGTX	Eurylaemiformes (Sub-clamatores)
PGTXE	Eurylaemidae
PGTY	Menuriformes (Sub-oscines)
POTYA	Atrichornithidae
PGTYM	Menuridae
PGU	Passeriformes (Insessores)
PGV	Clamatores (Mesomyodi)
PGVC	Conopophagidae
PGVCO	Cotingidae
PGVCOA	Atilinae
PGVCOB	Cotinginae
PGVCOG	Gymnoderinae
PGVCOL	Lipauginae
PGVCOR	Rupicolinae
PGVCOT	Tityrinae
PGVD	Dendrocolaptidae
PGVDD	Dendrocolaptinae
PGVDF	Furnariinae
PGVDS	Sclerurinae
PGVDSY	Synallaxinae
PGVF	Formicariidae
PGVFF	Formicariinae
PGVFG	Grallariinae
PGVET	Thamnophilinae

PGVO	Oxyrhamphidae
PGVP	Philepittidae
PVGRH	Phytotomidae
PGVPI	Pipridae
PGVEJ	Pittidae
PGVFT	Pteroptochidae
PGVT	Tyrannidae
PGVTE	Elaineinae
PGVTP	Platyrhynchinae
PGVTT	Taeniopterinae
PGVTTY	Tyranninae
PGVX	Xenicidae
PGW	Ossines (Acromyodi)
PGWA	Alaudidae
PGWAM	Ampelidae
PGWAMA	Ampelinae
PGWAMP	Ptilogonatinae (Ptilogonydinae)
PGWAR	Artamidae
PGWC	Campephagidae
PGWCE	Certhiidae
PGWCEC	Certhiinae
PGWCET	Tichodrominae
PGWCH	Chamaeidae
PGWCI	Cinclidae
PGWCN	Coerebidae
PGWCO	Corvidae
PGWCOC	Corvinae
PGWCOF	Fregilinae
PGWCOG	Garrulinae
PGWD	Dicaeidae
PGWDI	Dieruridae
PGWDR	Drepanidae
PGWE	Eulabetidae
PGWEU	Eurycerotidae
PGWF	Fringillidae
PGWFC	Coccothraustinae
PGWFE	Emberizinae
PGWFF	Fringillinae
PGWH	Henicuridae (Enicuridae)
PGWHI	Hirundinidae
PGWHY	Hyposittidae
PGWI	Icteridae
PGWIA	Agelaeinae
PGWIC	Cassicinae
PGWII	Icterinae
PGWIQ	Quiscalinae
PGWIS	Sturnellinae

PGWLA	Laniidae
PGWLAG	Gymnorhinae
PGWLAL	Laniinae
PGWLAM	Malaenotinae
PGWLAP	Paehycephalinae
PGWLE	Leiotrichidae
PGWM	Meliphagidae
PGWME	Meliphaginae
PGWMF	Myzomelinae
PGWMI	Mimidae
PGWMN	Mniotiltidae (Sylvicolidae)
PGWMO	Motacillidae
PGWMOA	Anthinae
PGWMOM	Motaellinae
PGWMU	Muscicapidae
PGWN	Neectariniidae
PGWO	Oriolidae
PGWP	Pauridae
PGWPA	Paradiseidae
PGWPB	Paridae
PGWPL	Ploceidae
PGWPLP	Ploceinae
PGWPLV	Viduiinae
PGWPR	Prionopidae (Aerocharidae)
PGWPT	Ptilonorhynchidae
PGWPY	Pyenonotidae
PGWS	Sittidae
PGWST	Sturnidae
PGWSY	Sylviidae
PGWSYP	Poliophtilinae
PGWSYR	Regulinae
PGWSYS	Sylviinae
PGWT	Tanagridae
PGWTI	Timeliidae (Timelidae)
PGWTR	Troglodytidae
PGWTU	Turdidae
PGWTUM	Myiadestinae
PGWTUT	Turdinae
PGWV	Vireonidae
PGWZ	Zosteropidae
PGX	Aves incertae sedis (arr. alphabetically by name of genera)
PGY	Ichtnites (Ornithichnites) (arr. alphabetically by so-called "genera")
PGZ	Oology

PH Mammalia

PHA Prototheria

PHB Protodonta

PHBD Dromatheriidae

PHL Allotheria (Multituberculata)

PHLB Bolodontidae

PHLP Plagiaulacidae (Neoplagiaulacidae, Polymastodontidae)

PHLPT Polydolopidae

PHLPT Tritylodontidae

PHT Monotremata (Ornithodelphia)

PHTO Ornithorhynchidae

PHTT Tachyglossidae (Echidnidae)

PHY Eutheria

PHZ *Didelphia*

PI Marsupialia

PIA Diprotodontia

PIAA Abderitidae

PIAD Diprotodontidae (Nototheriidae)

PIAE Epanorthidae

PIC Macropodidae (Hypsiprymnodontidae)

PICH Hypsiprymnodontinae

PICM Macropodinae

PICP Potoroinae

PIE Phalangistidae (Phalangeridae, Thylacoleonidae)

PIEP Phalangistinae

PIEPH Phascolarctinae

PIET Tarsipedinae

PIF Phascolomyidae

PIK Polyprotodontia

PIKA Amphitheriidae (Dryolestidae, Amblotheriidae)

PIKB Borhyaenidae (Sparassodontidae)

PIKC Cimolestidae

PIKD Dasyuridae

PIKDI Didelphyidae

PIKG Garzoniae

PIKM Microbiotheridae

PIKN Notoryctidae

PIKP Paurodontidae

PIKPE Peramelidae

PIKS Stagodontidae

PIKT Triconodontidae (Spalacotheriidae)

PIM	<i>Monodelphia</i>
PIN	Effodientia (Fodientia, Nomarthra, Tubulidentata)
PINM	Munidae
PINO	Orycteropodidae
Pj	Edentata (Bruta)
PJA	Ganodonta (Stylinodonta)
PJAC	Conoryctidae
PJAS	Stylinodontidae (Calamodontidae)
PJN	Xenarthra
PJNB	Bradyrodidae
PJND	Dasypodidae
PJNG	Glyptodontidae (Hoplophoridae)
PJNM	Megalonychidae
PJNME	Megatheriidae (Mylodontidae)
PJNMY	Myrmecophagidae
PK	Ungulata
PKA	Artiodactyla
PKB	Bunodonta
PKBA	Anoplotheriidae (Dichobunidae)
PKBC	Anthracotheriidae (Merycopotamidae)
PKBE	Anthracotherinae
PKBH	Hyopotaminae
PKBN	Caenotheriidae
PKBR	Helohyidae
PKC	Hippopotamidae
PKCC	Choeropsinae
PKCH	Hippopotaminae
PKCM	Homacodontidae (Agriochoeridae, Cotylipidae)
PKCO	Oreodontidae
PKCP	Pantolestidae
PKCS	Suidae (Pacochoeridae, Choeropotamidae)
PKCT	Tagassuidae (Tayassuidae, Dicotylidae)
PKCX	Xiphodontidae (Dichodontidae)
PKD	Solenodonta
PKDA	Antilocapridae
PKE	Bovidae <i>Ox, Sheep, Antelope, etc.</i>
PKEA	Aleelaphinae
PKEAU	Antilopinae
PKEB	Bovinae
PKEC	Caprinae
PKECE	Cephalophinae (Cephalolophinae)
PKECF	Cervicaprinae

PKEH	Hippotraginae
PKEO	Ovibovinae
PKEP	Ovinae
PKER	Rupicaprinae
PKES	Saginae
PKET	Tragelaphinae
PKF	Camelidae
PKG	Cervidae <i>Deer</i>
PKGc	Cervinae
PKGe	Cervulinae
PKGm	Moschinae
PKH	Giraffidae (Camelopardidae. Helladoth- eridae. Sivatheriidae)
PKHp	Protoceratidae
PKHT	Tragulidae
PKI	Perissodactyla
PKIA	Amylodontidae
PKJ	Equidae <i>Horse</i>
PKJA	Anelitheriinae
PKJE	Equinae
PKJH	Hyracotheriinae
PKK	Hyracodontidae
PKKL	Lophiodontidae (Helaletidae)
PKKP	Palaeotheriidae
PKL	Rhinocerotidae (Elasmotheriidae. Cae- nopidae)
PKLD	Diceratheriinae
PKLE	Elasmotheriinae
PKLR	Rhinocerotinae
PKLT	Teleoceratinae
PKM	Tapiridae
PKMT	Titanotheriidae (Brontotheriidae. Lam- bdotheriidae. Palaeosyopinae)
PKN	Condylarthra
PKNM	Meniscotheriidae
PKNO	Mioclaenidae
PKNP	Phenacodontidae
PKNR	Pleuraspidotheriidae

PKO	Hyracoidea
PKOA	Acoelodidae
PKOH	Archaeohyracidae
PKOP	Procaviidae (Hyracidae)
PKQ	Amblypoda
PKQC	Coryphodontidae
PKQP	Pantolambdidae
PKQR	Periptychidae
PKQU	Uintatheriidae (Bathyopsidae)
PKS	Proboscidea
PKSD	Dinotheriidae
PKSE	Elephantidae
PKSF	Elephantinae
PKSG	Mastodontinae
PKT	Ancylopoda (Ancylodactyla)
PKTC	Chalicotheriidae (Ancylotheridae, Macrotheriidae)
PKTH	Homalodontotheriidae
PKTI	Isotemnidae
PKTL	Leontiniidae
PKU	<i>Notoungulata</i>
PKW	Typotheria
PKWE	Entrachytheriidae
PKWH	Hegetotheridae (Pachyrucidae)
PKWI	Interatheridae (Protypotheridae)
PKWT	Typotheriidae (Mesotheriidae)
PKX	Toxodontia
PKXN	Nesodontidae (Atryptheridae, Protoxodontidae)
PKXT	Toxodontidae
PKY	Astrapotheroidea
PKYA	Albertogaudryidae
PKYB	Astrapotheriidae

PKZ	Litopterna
PKZA	Adiantoridae
PKZM	Macraucheniiidae (Mesorhinidae)
PKZN	Notohippidae
PKZP	Proterotheriidae
PL	Sirenia
PLD	Dugongidae (Halicornidae)
PLH	Halitheriidae
PLJ	Hydrodamalidae (Rhytinae)
PLP	Prorastomidae
PLT	Trichechidae (Manatidae)
PM	Cete (Cetacea) <i>Whales</i>
PMA	Archaeoceti
PMB	Basilosauridae (Zeuglodontidae)
PMG	Mysticeti (Mystacoceti)
PMH	Balaenidae
PMI	Balaenopteridae (Megapteridae)
PMO	Odontoceti (Denticeti)
PMP	Delphinidae
PMPD	Delphinapterinae
PMPF	Delphininae
PMPG	Globicephalinae
PMQ	Physeteridae (Physodontidae, Ziphiidae)
PMQK	Kogiinae
PMQP	Physeterinae
PMQZ	Ziphiinae
PMR	Platanistidae (Pontoporidae)
PMS	Squalodontidae
PN	Ferae (Carnivora)
PNA	Fissipedia
PNB	Aeluroidea
PNF	Felidae <i>Cat</i>
PNFF	Felinae
PNFG	Guepardinae (Cynaelurinae)
PNFM	Machaerodontinae

	Hyaenidae
PNH	Protelidae
PNI	Viverridae
PNIC	Cryptoproctenae
PNIE	Euplerinae
PNIG	Galidictinae
PNII	Herpetiinae
PNIIV	Viverrinae
PNJ	Cynoidea
PNK	Canidae <i>Dog</i>
PNKC	Caninae
PNKM	Megalotinae
PNL	Arctoidea
PNM	Mustelidae
PNML	Lutrinae
PNMM	Mellinae
PNMN	Mustelinae
PNN	Procyonidae
PNNN	Nasutinae
PNNP	Procyoninae
PNO	Ursidae <i>Bear</i>
PNP	Pinnipedia
PNQ	Odobenidae (Trichechidae)
PNR	Otariidae
PNS	Phocidae
PNSC	Cystophorinae
PNSP	Phorinae
PNSS	Stenorhynchinae
PO	Creodonta
POA	Ambloctonidae (Palaeonictidae)
POAB	Arctocyonidae
POC	Chriacidae (Oxyclaenidae)
POH	Hyaenodontidae
POM	Mesonychidae
POO	Oxyaenidae
POP	Proviverridae

POT	Triisodontidae
POU	Uitacyonidae
POV	Viverravidae
PP	Glires (Rodentia)
PPA	Simplicidentata
PPB	Scinromorpha
PPBA	Anomaluridae
PPBC	Castoridae (Mylagaulidae)
PPBH	Haplodontidae (Aplodontidae)
PPBI	Ischyromyidae
PPBP	Pseudosciuridae
PPC	Sciuridae
PPCA	Arctomyinae
PPCS	Sciurinae
PPG	Myomorpha
PPGB	Bathyergidae
PPH	Dipodidae
PPHD	Dipodinae
PPHS	Smithinae
PPI	Geomyidae
PPJ	Heteromyidae (Sacomyidae)
PPJD	Dipodomysinae
PPJH	Heteromyinae
PPJP	Perognathidinae
PPK	Lophiomyidae
PPM	Muridae
PPMC	Cricetinae (Hesperomyinae)
PPMD	Dendromyinae (Deomyinae)
PPMG	Gerbillinae
PPMH	Hydromyinae
PPMI	Microtinae (Arvicolinae)
PPMK	Murinae
PPMN	Myotalpinae (Siphneinae)

	Stomomyinae
PPMO	Otomyinae
PPMP	Phloeomyinae
PPMR	Rhynchomyinae
PPN	Muscardinidae (Gliridae. Myoxidae)
PPNP	Pedetidae
PPNS	Spalacidae (Aspalacidae)
PPNZ	Zapodidae
PPO	Hystricomorpha
PPOA	Castorididae
PBOB	Caviidae (Hydrochoeridae)
PPOC	Chinchillidae
PPOD	Dasyproctidae (Agoutidae)
PPOE	Dinomyidae
PPOF	Eocardidae
PPOG	Erethizontidae (Cercolabidae)
PPOH	Hystricidae
PPQ	Octodontidae (Ctenodactylidae. Loncheridae)
PPQC	Capromyinae
PPQE	Ctenodactylinae
PPQL	Loncherinae (Echymyinae)
PPQO	Octodontinae
PPT	Theridomyidae
PPU	Duplicidentata
PPV	Lagomorpha
PPVL	Leporidae
PPVO	Ochotonidae (Lagomyidae)
PQ	Tillodontia
PQA	Anchippodontidae (Tillotheridae)
PQE	Esthonychidae
PQN	Notostylopidae

POP	Pantostylopidae
PR	Insectivora
PRA	Dermoptera
PRB	Galeopithecidae
PRD	Insectivora vera
PRE	Adapisoricidae
PRF	Chrysochloridae
PRG	Dimylidae
PRH	Erinaceidae
PRHE	Erinaceinae
PRHG	Gymnuriinae
PRK	Hyposodidae (Lemnraividae)
PRL	Leptictidae (Ictopsidae)
PRM	Macroscelididae (Macroscelidae)
PRN	<i>Necrolestidae</i>
PRP	Potamogalidae
PRQ	Solenodontidae
PRS	Soricidae
PRT	Talpidae (Myogalidae)
PRFM	Myogalinae
PRTT	Talpinae
PRU	Tentrecidae (Centetidae)
PRUC	Centetinae
PRUG	Oryzorictinae
PRV	Tupaiidae
PS	Chiroptera
PSA	Megachiroptera
PSB	Pteropodidae
PSI	Microchiroptera
PSL	Megadermatidae (Nycterinae)
PSN	Natalidae
PSNO	Noctilionidae (Emballonuridae. Molcsidae)
PSP	Phyllostomatidae

PSR	Rhinolophidae
PSV	Vespertilionidae
PT	Primates
PTC	Chiromyoidea
PTD	Daubentoniidae (Chiromyidae. Cheiromyidae)
PTE	Metachiromyidae
PTF	Mixodectidae (Microsyopsidae)
PTH	Lemuroidea (Prosimiae)
PTI	Adapidae
PTJ	Anaptomorphidae
PTK	Indrididae
PTL	Lemuridae (Nycticebidae)
PTLG	Galagtiinae
PTLL	Lemurinae
PTLO	Lorisinae
PTM	Megaladapidae
PTMI	Microchoeridae
PTMN	Nesopithecidae
PTMO	Notharctidae
PTMP	Plesiadapidae
PTMT	Tarsiidae
PTN	Anthropoidea
PTNA	Archaeopithecidae
PTO	Callitrichidae (Hapalidae. Mididae)
PTP	Cebidae
PTPC	Cebinae
PTPM	Mycetinae
PTPN	Nyctipithecinae
PTPP	Pitheciinae
PTR	Cercopithecidae (Cynopithecidae. Semnopithecidae)
PTRC	Cynopithecinae
PTRS	Semnopithecinae

PTS	Henricosbornidae
PTT	Hominidae (Bimana)
PTV	Notopithecidae
PTW	Simiidae (Anthropomorphidae. Hylobi- atidae. Pithecidae)
PTz	<i>Mammalia incertae sedis.</i> Arrange by orders and genera
PU	Economic zoology <p>Arrange subdivisions, if needed, according to the order followed in the synopsis. PUU Insects (unless the books are put in OWX); PUD Fishes; PUQ Birds</p> <p>Mythological zoology <i>See</i> BUB</p>

ANTHROPOLOGY

(INCLUDING ETHNOLOGY)

Classification made by Mr. Richard Bliss, Librarian of Redwood Library, Newport, R. I.

SYNOPSIS

General Works PW

Natural history of Man PWA

Anthropography (Somatology) PWB

Anthroponomics PWY

Anthropogeny PWZ

Prehistoric archaeology PX

Ethnology PY

Ethnography PYE

Anthropo-Sociology PYQ

Race (Social) psychology PYY

Comparative psychology PYZ

Primitive Culture (Social origin) PZ

Material PZB

Mental PZE

Folk psychology PZV

Folk lore PZW

Sophiology PZY

- Pw'1 Study
- Pw'2 Biography
- Pw'3 Bibliography
- Pw'4 History
- Pw'5 Dictionaries. Encyclopedias
- Pw'6 Compendis. Tables
- Pw'7 Periodicals
- Pw'8 Societies
- Pw'9 Collections

PW General and miscellaneous works

PWA Natural history of man

- PWB Anthropography (Somatology. Physical characters)
- PWBA Stature. Bodily form. *See also* PWR'6
- PWBE Proportions of the body.
- PWBF Curve of the back. (*Ensellure*)
- PWBI Steatopyga
- PWC Child. Children
- With the local list.
- PWD Woman. Female beauty
- With the local list.‡
- PWE Cranium. Head. *See also* PWL
- PWEA Dolichocephalic type
- PWEB Brachycephalic type
- PWEG Gnathism

‡The local list is to be used wherever needed even though it is not specifically mentioned in the text

PWEH	Prognathism
PWEK	Orthognathism
PWEP	Eurygnathism
PWF	Trunk and limbs
PWFA	Skeleton
PWFE	Vertebral column
PWFH	Shoulder-girdle and arms
PWFD	Pelvis and legs
PWFO	Extremities
PWFR	Muscular system
PWG	Visceral system
PWGA	Alimentary organs
PWGE	Teeth. Dentition
PW GK	Circulatory organs
PWGR	Respiratory organs
PWGV	Excretory organs
PWH	Nervous system
PWHA	Brain. Brain weight
PWHM	Organs of special sense
PWHN	Nose
PWHP	Ear
PWHR	Eye
PWHS	Organs of speech
PWI	Genital organs
PWIF	Female
PWIM	Male
PWIP	Breasts
PWIS	Sex characteristics. The sexes
PWJ	Tegumentary system <i>See also</i> PWJP

PWJA	Skin
PWJF	Finger-prints
PWJK	Hair
PWJP	Pigmentation
PWJS	Skin
PWJU	Hair
PWJW	Iris
	Deformities. <i>See</i> PWXM
PWK	Anthropometry. (Measurement)
PWKA	Instruments for measuring
PWKT	Tests
PWL	Craniometry. Cephalometry
PWM	Cephalic indices
PWM'6	Tables
PWN	Facial indices
PWN'6	Tables
PWO	Other indices
PWOA	Vertical
PWON	Nasal
PWOR	Orbital
PWF	Cranial capacity
PWF'6	Tables
PWQ	Local craniometry and cephalometry With the local list
PWR	Trunk and limbs
PWR'6	Tables of height
PWRS	External sexual organs
PWS	Physiological anthropology
PWSB	Bodily strength

PWSH	Movement
PWSL	Circulation
PWSP	Senses
PWT	Expression of the emotions
PWU	Reproduction. Embryology
PWUA	Puberty. Menstruation
PWUF	Fertility. Sterility. <i>See also</i> MXFN
PWUH	Heredity. <i>See also</i> MX, PYRF
PWUM	Crossing. Interbreeding. <i>See also</i> MXL
PWV	Effect of light and heat
PWW	Statistics (Somatological)
	With the local list
PWX	Pathological anthropology
PWXA	Liability to disease. Immunity
PWXC	Nervous diseases. Mental diseases
PWXF	Other particular diseases
PWXI	Pathological growths. <i>See also</i> PWBT, PWXK
PWXX	Cretinism
PWXM	Monstrosities
PWXP	Dwarfs. Pygmies. <i>See also</i> PYGH
PWXT	Degeneration
PWY	Anthroponomics
PWYA	Relation to other organisms
PWYE	Relation to environment. <i>See also</i> PYSE
PWYF	Food supply
PWZ	Anthropogeny. (Zoological anthropology)
PWZA	Comparative anatomy and physiology
PWZG	Relation to the Simiidae
PWZH	Pithecanthropus alalus

PWZI Pithecanthropus erectus

PX Prehistoric archaeology

PXA Antiquity of man

PXAG Man and the glacial period. *See also* MGLVZ

PXB Tertiary era

PXBA Artifacts (Flints, Eoliths, etc.)

PXBL Local remains

With the local list.

PXC Quaternary era

PXD Palaeolithic age. Stone age.

PXDA Cave man. Cave dwellings (Weems)

PXDE Kitchen middens (Shell-heaps)

PXDH Palaeoliths

PXDI Chipped stone

PXDJ Flake flints

PXDJR Rejects

PXDO Other

PXDP Palaeolithic art

PXDS Sepulture

PXE Epochs

PXEA Lower quaternary

PXEC Chellian culture

PXEG Acheulian culture

PXEL Middle quaternary

PXEM Mousterian culture

PXEP Upper quaternary. Reindeer epoch

PXEQ Eburnian horizon

PXER Aurignacian culture

PXES	Solutrian culture
PXEY	Magdalenian culture
PXF	Special races and remains
PXEA	Homo heidelbergensis
PXFE	Neanderthal man
PXFH	Cro-magnan race
PXFK	Grimaldi find
PXFN	La Naulette remains
PXFT	La Truchere race
PXFU	<i>Moulin-Quignon jaw</i>
PXFW	Spy remains
PXG	Local remains and palaeoliths
	With the local list
PXGZ	Transition to Neolithic age
PXH	Neolithic age. Polished-stone age
PXI	Stations. Villages and workshops
PXIA	Azilian stations
PXIE	Arisian station
PXJ	Dwellings
PXJA	Caverns. Rock shelters
PXJE	Lake dwellings
PXJG	Crammogs
PXJK	Fascine structures
PXJM	Pile structures
PXJS	Stone structures
PXJV	Kitchen middens. (Shell-heaps)
PXK	Neolithic sepulture
PXKA	Inhumation
PXKC	Pre-sepulchral <i>decharnement</i>

PXKF	Burial posture
PXKI	Incineration. Urn burial
PXKN	Burial places. (Necropoli)
	With the local list
PXL	Neolithic industry. Artifacts
PXLA	Shaped stone implements
PXLB	Polished stone implements
PXLC	Weapons and utensils
PXLD	Lance and arrow heads
PXLE	Knives
PXLF	Axes
PXLG	Other implements
PXLJ	Other stone objects
PXLN	Neolithic ceramics
PXLO	Vases, Urns, etc.
PXLT	Bodily ornaments
PXLV	Garments
PXM	Neolithic art
PXMA	Sculptures
PXMG	Grottoes
PXMI	Slabs. Menhirs
PXMJ	Human figures. "Idols" <i>See also PziQ</i>
PXML	Dolmens
PXMP	Engraving
PXMS	Neolithic commerce
PXN	Local remains and neoliths
PXO	Age of metals
PXOC	Copper
PXOG	Copper mining

PXOG	Implements
PXOT	Tin mining
PXP	Bronze
PXPF	Manufacture
PXPI	Implements
PXQ	Iron
PXQC	Smelting
PXQL	Implements
PXQL	La Halstat culture
PXQM	La Tene culture
PXR	Constructive arts. (Prehistoric) <i>See also</i> PzC Mound structures. <i>See</i> PzCF
PXRD	Dwellings. <i>See mainly</i> PXJ
PXRI	Sepulchral structures. <i>See also</i> PXU
PXRN	Defensive structures
PXRS	Stone structures. (other than Pxs)
PXS	Megalithic monuments. (Rude stone monuments)
PXSA	Menhirs. Obelisks
PXSL	Alignments. Avenues
PXSN	Carnac
PXT	Cromlechs. (Stone circles. Cycloliths)
PXTA	Avebury With alphabetical arrangement
PXTE	Er-Lanic
PXTS	Stonehenge
PXU	Dolmens
PXUC	Covered alleys
PXUG	Galleries
PXUT	Tumulus-Dolmens (Barrows cairns)
PXUU	“Druidical altars” With the local list

Pxv	Local distribution of dolmens and tumuli
Pxw	Other monuments
Pxwa	Trilithous (Triliths)
Pxwg	Gateways
Pxwk	Cists. (Kistvaens)
Pxwn	Nurhagi. Talayots
Pxwr	Kurgans
Pxx	Local megalithic monuments

With the local list

Pxy	Implements and weapons
Pxya	Stone
Pxyn	Bone
Pxyw	Wood

Pxz Local exploration and research

With local list.

Includes such general works as *La France pré-historique* (Pxz39), *Prehistoric remains of Kentucky* (Pxz883)

PY Ethnology (*Volkerkunde*)

PYA	Museums (including Anthropological museums)
PYB	Photographs. Models
PYC	Actiology and evolution
PYD	Origin of man. <i>See also</i> Pwz
PYDA	Special creation theory
PYDF	Evolution theory
PYDI	Specific unity of the human race

PYDJ	Monogenetic (Single stock)
PYDK	Place of origin. "Cradle land"
PYDN	Polygenetic (Several stocks)
PYDP	Centers of creation
PYDT	Varietal diversity of the Hominidae
PYDU	Fundamental type variants
	Geographical distribution. Migration. <i>See</i> PYSM, PYSN
PYE	Ethnography (Races of men)
PYEC	Classification. Taxonomy
PYED	Somatological (physical) grouping
PYEF	Geographical grouping
PYEG	Linguistic grouping
PYEI	By institutions and social organization. (<i>Ratzel</i>)
PYEJ	By arts and culture
PYEK	By musical systems (<i>Fetis</i>)
PYEL	By mythology and religion (<i>M. Muller</i>)
PYER	Individual classifications. Sub-arrangement by the name of the classifier.
PYF	Ethnic groups
PYG	Negroid type. (<i>Black race</i>)
PYGA	Negroes
PYGB	Sudanese Nubians
PYGF	Bantus
PYGH	Negrillos (Pygmies)
PYGI	Bushmen
PY GK	Hottentots
PYGM	Melanesians (Oceanic negroes)

PYGN	Papuasians
PYGO	Western (Papua)
PYGR	Eastern (West Pacific islands)
PYGU	Australians
PYGY	Tasmanians
PYGZ	Negritos. (Andaman islanders)
PYH	Mongolian type. (<i>Yellow race</i>)
PYHA	Southern mongols (Sinitic)
PYHB	Tibetan
PYHC	Burmese
PYHD	Indo-Chinese
PYHDA	Tai-Shan (Siamese, etc.)
PYHDG	Giao-Shi (Anamese. Cochin China)
PYHE	Chinese
PYHF	Oceanic mongols
PYHG	Malaya. (Indo-Malayan archipelago)
PYHGA	Proto-Malays (Batta, Dyak, Javanese)
PYHH	Madagascans
PYHI	Malays proper
PYHJ	Polynesians (Malayo-Polynesians, Kanakas)
PXHK	Northern mongols. (Mongolo-Turkee)
PYHL	Mongols proper
PXHM	Tunguses. Manchus
PYHN	Koreans
PYHO	Japanese
PYHOL	Liu-Kiu
PYHP	Tartaric group (Turkei)
PYHQ	Turks (Osmanic)
PYHR	Cossacks

PYHS	Kirghiz
PYHT	Finnic group (Finnic Ugrians)
PYHU	Finns
PYHV	Bulgars
PYHW	Magyars
PYHX	Lapps
PYHY	Arctic group
PYHYC	Chuckcheis
PYHYK	Kamchatdales
PYHZ	Eskimos. Aleuts
PYI	American. (<i>Red Race</i>)
PYIA	North American

Following are the names of the principal stocks. The various tribes can be entered under their appropriate stocks, when necessary, by adding another letter to the stock mark, thus: PYIBN—Narragansetts; PYTED—Dakotas; PYIDM—Mohawks. Consult the Standard Dictionary under the word American for a full list of the tribes and Stocks.

PYIB	Athabaskan
PYIC	Algonkian
PYID	Iroquoian
PYIE	Siouan
PYIF	Shoshonean
PYIG	Caddoan
PYIH	Muskhogeian
PYII	Pueblo Indians
PYIJ	Hopi (Moqui)
PYIK	Zuni
PYIL	<i>Others</i>
PYILE	Eskiman (If not put in PYIY)

PYILK	Kolushan
PYILR	Salishan
PYILS	Shahaptian
PYILY	Yuman
PYIM	Hypothetical races
PYIMM	Mound-builders
PYIMT	Toltecs
PYIN	Mexican and Central American
PYIO	Nahuatlan (Aztec, Pipil)
PYIP	Huaxtean (Maya, Quiche)
PYIQ	<i>Others</i>
PYIR	South American
PYIS	Andean
PYISC	Chibúchas (Muyscas)
PYISQ	Quechuan-Aymaras (Incas, etc.)
PYIT	Amazonian
PYITA	Arawaks
PYITC	Caribs
PYITM	Miranha
PYITP	Pand
PYIV	Brazilian
PYIVG	Ges (Botocudo-Kayapo)
PYIVT	Tupi-Guarani
PYIX	Patagonian
PYIZ	Fuegian
PYJ	Caucasic (<i>White Race</i>)
PYK	Mediterranean branch
PYKA	Semites
PYKB	Phoenicians

PYKC	Assyrians
PYKD	Arabs
PYKE	Aramaeans (Syro-Chaldeans)
PYKF	Syrians
PYKG	Jews
PYKH	Hamites
PYKI	Eastern
PYKJ	Egyptians
PYKK	Nubians
PYKL	Abyssinians
PYKLG	Gallas
PYKM	Massai
PYKN	Northern
PYKO	Berbers. Tuaregs Basques. <i>See</i> PYKV
PYKQ	Tibus
PYKR	Fulahs
PYKS	Guanches
PYKT	Northern Mediterranean group
PYKU	Iberians
PYKV	Basques
PYKW	Ligurians
PYKX	Pelasgians
PYKY	Pre-Hellenes
PYL	<i>Peoples of Aryan speech</i>
PYM	Alpine branch
PYMA	Kelto-Slavs
PYMB	Tyrolese type
PYMC	Rhaetians. Etruscans

PYMD	Kelts (Celts)
PYME	Gaels
PYMF	Kymry (Cymry)
PYMG	Picts
PYMH	French
PYMI	Spaniards
PYMJ	Portuguese
PYMK	Italians
PYML	Rumanians
PYMM	Hellenes
PYMN	Slavs
PYMNS	Sarmatians
PYMNW	Wends
PYMO	Chekhs
PYMP	Poles
PYMPC	Serbs. Croats. Bosnians
PYMQ	Albanians
PYMR	Russians
PYMS	Caucasus peoples
PYMT	Indo-Iranians
PYMU	Iranians
PYMUA	Armenians
PYMUKE	Kurds
PYMV	Persians
PYMVA	Tajiks
PYMVG	Galchas
PYMW	Afghans
PYMX	Hindus
PYMXD	Dravidians

PYMXK	Kols
PYMXT	Todas. Kurumbas
PYMY	Veddas
PYMZ	Ainu
PYN	Northern (Teutonic) branch
PYNA	Bastarne
PYNB	Meso-Goths
PYNC	Teutons
PYND	Dutch
PYNG	Germans
PYNI	Belgians
PYNK	Flemings
PYNL	Frisians
PYNO	Saxons
PYNP	Anglo-Saxons
PYNS	Skandinavians
PYNT	Danes
PYNU	Norwegians
PYNV	Icelanders
PYNY	Swedes
PYO	Classification by geographic-linguistic groups.

(Deniker)

See Deniker's Races of men for racial subdivisions. This classification is alternative one to PYF.

PYOA	Europe
PYOB	Aryans
PYOC	Anaryans
PYOD	Asia

PYOE	Northern
PYOF	Central
PYOG	Eastern
PYOH	Indo-China
PYOI	Cisgangetic peninsula
PYOJ	Anteria Asia
PYOK	Africa
PYOL	Semito-Hamites
PYOM	Bushmen-Hottentots
PYON	Negroes. (Negrillos, Negritos)
PYOP	Madagascans
PYOQ	Oceania
PYOR	Australasians
PYOS	Malaysians
PYOT	Melanesians
PYOU	Polynesians
PYOV	America
PYOW	North America
PYOWE	Eskimos. Aleuts
PYOX	Indians of Canada and the United States
PYOY	Indians of Mexico and Central America
PYOZ	South America
PYOZA	Andeans
PYOZE	Amazonians
PYOZI	Brazilians
PYOZS	South Argentines

With the local list

Here will go works which treat of the peoples of any particular country without regard to race, as: The races of Europe (PYP30); The peoples of the Mediterranean (PYP27), The wild tribes of the Sudan (PYP725)

PYQ	Anthropo-Sociology (Social relations)
PYR	Social evolution
PYRA	Origin and descent. <i>See also</i> MYVA
PYRC	Aggregation
PYRE	Variation
PYRF	Transmission and heredity. <i>See also</i> MX
PYRG	Social forces
PYRI	Autonomic theories
PYRJ	Psychical theories
PYRM	Social selection. Or in MYVS
PYRN	Natural selection
PYRP	Individual selection
PYRQ	Group selection. Or in MYVG
PYRS	Social progress
PYRT	Monotypic
PYRU	Polytypic
PYS	Socionomics. Socionomic forces
PYSA	Intergroup intercourse
PYSC	Socionomic conditions.
PYSE	Relation to environment. <i>See also</i> PWYF
PYSF	Influence of climate
PYSH	Acclimatization
PYSI	Influence of desert environment

PYSJ	Influence of oceanic environment
PYSM	Migration. Or in MYVT
PYSN	Geographical distribution. Or in MYVN
PYSP	Isolation. Or in MYVP
PYSR	Rivalry. (Commercial and hostile war)
PYSV	Accommodation
PYTT	Social organization. Communities, etc.
PYTA	Anthropogenic association. (Beginnings of human society)
PYTE	Ethnogenic association. Primitive society
PYTF	The family. <i>See also</i> JBF
PYTG	Hetaerism (Promiscuity)
PYTH	Marriage
PYTHC	Bride capture. Rape. Bride purchase
PYTI	Wedding ceremonies
PYTJ	Father and child. Paternity
PYTJC	Juridical children
PYTK	Consanguine family
PYTKI	Incest
PYTL	Endogamy. Exogamy
PYTM	Punaluan family. Group marriage
PYTO	Syudyasmian (Pairing) family
PYTP	Polyandrian family. (Patriarchal family) Polyandry
PYTPN	Nair polyandry
PYTPT	Tibetan polyandry
PYTO	Levirate Niyogo
PYTQP	“Parental” marriage
PYTR	Polygynous family (Polygyny (Polygamy))

PYTRM	Monogamous family
PYTS	Family life
PYTT	The child
PYTU	Birth
PYTV	Birth ceremonies
PYTVC	Convade
PYTVN	Nurture
PYTW	Puberty rites. Circumcision. <i>See also</i> PZRC
PYTX	Initiation. <i>See also</i> PYYN, PZRI
PYTZ	The aged
PYU	Kinship
PYUA	Stock group
PYUB	Totem. Totemism
PYUE	Systems of consanguinity and affinity
PYUET	Turanian. Ganowanian
PYUF	Female (metronymic) kinship
PYUG	Matriarchate. (<i>Mutterrecht</i>)
PYUH	Male (agnatic) kinship. Agnation
PYUI	Patriarchate. (<i>Vaterrecht</i>)
PYUK	Law of succession
PYUKN	Nomenclatures
PYUKZ	Fabricated genealogies
PYUM	Adoption
PYUMA	Of a son, as first-born
PYUME	Of clan by clan
PYUMI	Of a prisoner
PYUN	Kinship organization
PYUP	Gens (Clan. Sept.) <i>See also</i> JBK
PYUR	Phratry. Curia
PYUT	Tribe. <i>See also</i> PYYH

PYUV	Confederacy. Nation
PYUZ	Local organizations With the local list
PYV	Social organization. Social life
PYVA	Horde
PYVC	House community
PYVD	Village community. <i>See also</i> HXE
PYVF	Social life
PYVH	Tribal organization. <i>See also</i> PYUT
PYVJ	Associations. Fraternities
PYVK	Cult societies
PYVL	Religious societies
PYVM	Tribal secret and semi-secret societies
PYVN	Initiation ceremonies. <i>See also</i> PYTX, PZRI
PYVP	Local associations With the local list
PYVR	Social morals
PYVS	Social taboo
PYUT	Sexual taboo
PYVU	Vendetta. Blood-feud
PYVUJ	Judicial combat
PYVW	Ordeal. <i>See also</i> KAHO
PYVX	International life
PYVY	Hostile relations. War
PYVZ	Commercial relations
PYW	Demogenic association. (Development of civil society)
PYWA	Territorial rule
PYWC	Organization of caste. <i>See also</i> HAR

PYWH	Class rule
PYWK	Secondary classes
PYWL	Chief
PYWP	Slavery
PYWR	Feudal and democratic organization
PYWT	Forms of government
PYWX	Judicial and deliberative assemblies

PYX Law. Justice. Institutions

PYXA	Origins. Primitive law
PYXF	Law and religion
PYXG	Ownership. Property rights
PYXI	Feudal property
PYXK	Land tenure
PYXL	Defense of property
PYXM	Inheritance
PYXMI	Inheritance and ancestor worship
PYXP	Trials. Oaths
PYXQ	Torture
PYXS	Punishment
PYXSA	Asylums
PYXSW	Wergild
PYXT	Sovereignty
PYXV	Criminal anthropology
PYXW	Descriptive criminology
PYXX	Genetic (Racial) criminology
PYXZ	Special topics
PYXZA	Abortion. Infanticide
PYXZS	Suicide

PYY Race (Social) psychology *See also* PZV

PYYA	Evolution of mind
PYYE	Mental descent. <i>See also</i> PYRA
	Inheritance
PYYE	Race experience (Spencer)
PYYG	Variation
PYYI	Selection
PYYK	Adaptation. Accommodation
PYYM	Emotions. Temperament
PYYP	Reaction times
PYYS	Relation of the sexes
PYYU	Position of woman. With the local list if needed
PYYW	Child study (primitive peoples)

PYZ Comparative psychology

Man compared with the lower animals

PY Primitive culture (Early civilization. Social origin)

PZA	Development of culture
PZAB	Degradation theory
PZAD	Development theory. Progression theory
PZB	Material culture (Primitive industry. Arts of life)
PZBA	Individual
PZBB	Tribal
PZBC	Tools. Implements. <i>See also</i> PZBI and following entries

PZBD	Cutting. (Axes, knives, etc.)
PZBE	Abrading. Smoothing. (Scrapers, etc)
PZBF	Crushing. Pounding. (Hammers, Pestles, etc)
PZBG	Perforating. (Drills. Lathes)
PZBH	Other
PZBI	Fire-making
PZBID	Fire drill. Fire plough
PZBIP	Fire piston
PZBJ	Food
PZBJA	Anthropophagy. Cannibalism
PZBJG	Geophagy
PZBK	Cooking utensils
PZBL	Quest of food
PZBM	Capture of animals
PZBMA	Trap. Snare. Pitfall
PZBMH	Hunting with weapons
PZBN	Fishing
PZBO	Implements of the chase
PZBP	Bow and arrow
PZBPA	Arrow poison
PZBPG	Blow-gun
PZBPH	Spear. Throwing-stick. Harpoon
PZBPN	Net
PZBQ	Stimulants. Distillation
PZBR	Narcotics
PZBRT	Tobacco smoking. Pipes
PZBS	Clothing. <i>See also</i> PZBV
PZBSM	Sense of modesty
PZBT	Garments

BZBU	Head-dress
PZBV	Bodily adornment. <i>See also</i> PZBS
PZBVP	Painting
PZBVT	Tattooing
PZBW	Ethnic mutilation. Deformation
PZBWA	Head
PZBWF	Foot
PZBX	Ornaments attached to the body
PZBY	Use of skins
PZBYA	Preparation
PZBZ	Utensils
PZC	Constructive arts. <i>See also</i> PXR
PZCA	Shelter, Habitations
PZCB	Cave dwellings
PZCC	Cliff dwellings
PZCCA	Cajon structures
PZCCP	Pueblos
PZCD	Pile structures
PZCE	Huts. Houses. Tents
PZCEH	Heating and lighting
PZCF	Mounds
PZCFA	Conical (Tumuli)
PZCFE	Sacrificial
PZCFI	Emblematic
PZCG	Earthworks. Fortifications
PZCH	Excavations
PZCHD	Dene-holes
PZCHP	Dew-ponds
PZCK	Temples. Shrines

PzCL	Sacrificial altars. Or in PzPLS
PzCN	Stone working
PzCNA	Quarrying
PzCNC	Cutting and polishing
PzCP	Pottery
PzCQ	Moulded by hand
PzCR	Modeled
PzCS	Coiled
PzCT	Ornamentation
PzCU	Utensils
PzCV	Fiber and wood
	Basketry. <i>See</i> PzDB
PzCW	Canoes
PzCX	Wood-carving
PzCY	Utensils
PzCZ	Primitive use of plants
PzD	Textile industry
PzDA	Weaving
PzDB	Basketry
PzDBA	Woven
PzDBK	Coiled
PzDC	Mat-making. Plaiting
PzDCN	Netting
PzDD	Spinning
PzDE	Embroidery. Ornamentation
PzDEF	Feather-weaving
PzDF	Dyeing
PzDG	Metal working. <i>See also</i> PxO
PzDGM	Primitive metallurgy

PzDH	Utensils
PzDI	Glass working
PzDK	Agriculture. Husbandry
	Dew ponds. <i>See</i> PzCHP
PzDL	Animal culture
PzDLD	Dog. Lycotechny
PzDLH	Horse. Mule
PzDM	Locomotion
PzDMA	Aids to individual locomotion
PzDML	Primitive vehicles
PzDN	Transportation
PzDO	Boats. Canoes
PzDOA	Oar. Paddle
PzDOS	Sail
PzDP	Roads. Bridges
PzDQ	Economics
PzDR	Trade. Commerce
PzDS	Barter. Money
PzDSC	Shell money. Wampum
PzDSM	Weights and measures
PzDT	Navigation
PzDU	Offensive and defensive weapons. Warfare
PzDV	Hand weapons. <i>See also</i> PzBO
PzDW	Missile weapons
PzDX	Armour
PzDY	Watch-towers
	Treatment of captives. <i>See</i> PzKP
	Classification of mankind by arts. <i>See</i> PVEJ
PZE	Mental culture
PZEA	Number systems. Counting

PZEG	Gesture counting. Hand numerals
PZEN	Numeral words
PZET	Time measurement. Chronometry
PZEX	Calendars. <i>See also</i> LSW
	With the local list
PZF	Language (Linguistics. Glossology)
PZFA	Origin. <i>See also</i> XDAA
PZFB	Gesture language. Sign language. <i>See also</i> PZEG, XDAG
PZFE	Spoken language
PZFH	Written language
PZFI	Iconographic (Ideographic. Picture writing)
PZFJ	Symbolic
PZFK	Iconomatic
PZFL	Phonetic
PZFM	Special forms
PZFMK	Knot writing
PZFMS	Message sticks
	Grammatical structures. <i>See</i> XDH
PZG	Language by ethnical groups (Familiar etc.) <i>See also</i> XE, XV
	Can be used with the local list, though the latter is not well adapted to this usage here. It will be better to follow the ethnical grouping (PYF), adding the group or tribe letters to PZG, thus: Negro languages—PZGGA; Language of the Zuni Indians—PZGIK.
PZH	Amusements
PZHA	Toys
PCHG	Games
PZHI	Children's games
PZHJ	Games of chance. Gaming

PZHN	Sports
PZHR	Dance. Dancing
PZHS	Festal
PZHV	Pantomimic. Play acting
PZI	Esthetology (Primitive fine arts)
PZID	Drawing. Pyrography
PZIF	Painting
PZIH	Pictographs. Rock pictures. <i>See also</i> PzFI
PZIK	Carving. Engraving
PZIP	Sculpture
PZIQ	Easter Island statues
PZIS	Decoration
PZIV	Primitive symbolism in art
PZJ	Primitive music. <i>See also</i> Vv12
PZJA	Musical instruments
PZJI	Instrumental music
PZJS	Songs. <i>See also</i> Vv13
PZJW	Native music (by peoples)
	Use the group or tribe letters with the class- mark, PzJW, thus: Music of the Hopi Indians—PzJWIJ. <i>See</i> note to PzG
PZJX	Primitive drama. <i>See also</i> PzHV
PZK	Customs. Survivals and superstitions. <i>See also</i> Pzo
PZKA	Birth customs. <i>See chiefly</i> PYTE
PZKB	Wedding customs. <i>See also</i> PzTL
PZKM	War customs
PZKN	War dances
PZKO	Trophies. Triumphal marches
PZKP	Treatment of captives
PZKQ	Mutilation. Scalping

PzKR	Cannibalism
PzKW	Customs relating to various occupations
PzL	Occult science. <i>See also</i> BU
PzLA	Witchcraft. <i>See also</i> BW
PzLN	Augury. Divination. <i>See also</i> BU _F . With alphabetical sub-arrangement
PzLNC	Chiromancy
PzLNR	Rhabdomancy
PzLO	Omens Astrology. <i>See</i> LRB
PzLS	Spiritism (Spiritualism). <i>See also</i> Bxs
PzM	Local manners and customs
PzN	Mythology. Religion. Animism. <i>See also</i> BTD
PzNA	Origin and development of myth (Mythogeny)
PzNC	Creation myths. Cosmogonies
PzNE	Nature myths
PzNF	Sun myth. Dawn myth
PzNG	Mood and star myths
PzNH	Myth of the winds
PzNJ	Other nature myths
PzNP	Philosophical myths
PzNPA	Ape men. Giants. Dwarfs, etc.
PzNQ	Eponymic myths
PzNR	Hero myths
PzNU	Legends
PzNY	Classification of myths
PzNZ	Local mythology. With the local list
PZO	Animism. Origin of religion
PzOA	Ghost theory

PzOF	Doctrine of souls
PzOG	Ghost soul
PzOJ	Journey of the soul to Hades
PzOM	Feasts of the dead
PzOT	Transmigration of souls
PzOW	Mutilation of soul with body
PzP	Doctrine of spirits
PzPA	Manes worship. Ancestor worship
PzPB	Tutelar divinities
PzPC	Totemism. <i>See also</i> PYUB
PzPD	Good and evil demons. <i>See also</i> BW
PzPDD	The devil
PzPE	Vampires. Succubi
PzPG	Nature spirits
PzPH	Fire worship. Sun worship. <i>See also</i> PzNF
PzPHA	Water worship
PzPHT	Tree worship. <i>See also</i> BRO
PzPI	Animal worship. <i>See also</i> BRO, PzPC, PYUB
PzPJ	Serpent worship
PzPL	Places of worship. <i>See also</i> BRQ
PzPLG	Groves. Temples
PzPLI	Idols
PzPLS	Sacrificial altars. Or in PzCL
PzPM	Fetishism. <i>See also</i> BTF
PzPMV	Voodooism
PzPN	Magic
PzPNI	Spells. Incantation
PzPNS	Sympathetic magic
PzPP	Shamanism

PzPQ	Shaman. Medicine man. Exorcist
PzPR	Medicine lodge
PzPS	Anthropomorphism. Idolatry
PzPT	Polytheism. Monotheism. <i>See also</i> PYA, PYG
PzPV	Mysticism
PzPX	Family and tribal religions
PzPY	Primitive religious systems. With the local list
PzQ	Rites. Ceremonies and practices
PzQA	Religious practices. Worship
PzQB	Prayer
PzQG	Sacrifice. Priesthood. <i>See also</i> BTRS, BTXS
PzQH	Human sacrifices
PzQO	Oracles. Revelations
PzQP	Expiatory rites
PzQR	Fasting. Religious exaltation
PzQT	Religious dances. <i>See also</i> PzRM
PzQV	Religious intoxication
PzQX	Religious prostitution
PzR	Symbolical rites and ceremonies
PzRC	Circumcision. <i>See also</i> PYTW
PzRE	Purification. Lustration
PzRG	Orientation
PzRI	Initiation. <i>See also</i> PYTX
PzRJ	Ceremonial mutilation
PzRM	Symbolism
PzRP	Phallic. Worship of the generative powers. Phallicism. <i>See also</i> BTP
PzRQ	Pre-Christian cross
PzRR	Fylfot (Swastika)

PzRT	Ceremonial dances. <i>See also</i> PzQT, PzRV
PzRU	Ceremonial chants
PzRV	Special ceremonies
PzRVF	Fire ceremony. Fire dance. Fire walking
PzRVR	Rain ceremony
PzRVS	Snake ceremony. Snake dance
PzRW	Ceremonial objects and utensils
PzRX	Masks
PzS	Mortuary rites and customs
PzSB	Burial. Sepulture. <i>See also</i> PxBS, Pxx
PzSC	Cremation. Urn burial
PzSE	Mummification. Mummy case
PzSG	Exposure
PzSI	Inhumation
PzSM	Self immolation (Sutter)
PzSP	Particular funeral customs
PzSQ	Mourning
PzT	Other ceremonies and customs
	Birth ceremonies. <i>See</i> PzTV
PzTG	Menstrual seclusion
PzTK	Courtship ceremonies
PzTL	"Bundling"
PzTN	Wedding ceremonies
PzU	Local rites and ceremonies
	With local list; or with the group or tribe mark. (See PzF) following PzU, as: Study of Siouan cults—PzUIE

Pzv Folk psychology (*Volkerpsychologie*) *See also* **PYY**

- PzVA Evolution of national characteristics
- PzVE Effects of climate on national characteristics
- PzVI Primitive mental processes
- PzVN Ethics
- PzVO Origin of moral sense
- Pzvs Social ethics
- PzvU Family ethics

PzW Folk-lore. (*Volkskunde*) *See also* **BU**

- Pzw'4 History
- Pzw'5 Dictionaries
- Pzw'7 Periodicals
- Pzw'8 Societies
- Pzw'9 Collections
- PzWA Weather-lore
- PzWC Plant lore
- PzWE Animal lore and fables
- PzWG Superstitions, beliefs and practices. *See also* PzH
- PzWGA Amulets. Charms
- PzWK Traditional and local customs
- With the local list
- PzWL Fairy tales
- PzWN Folk sayings. Proverbs
- PzWP Fortune telling
- PzWQ Dream books

PzWR	Riddles
PzWS	Nursery rhymes
PzWT	Place rhymes
PzWU	Ballads. <i>Better in YN</i>
PzWV	Folk-songs. <i>Better in YV</i>
PzWX	Folk-tales. Hero stories. <i>See also PzNR</i>
PzWY	Folk-lore about children
PzWZ	Folk-lore about women
PzX	Local folk lore

With the local list

PZY Sophiology. Primitive arts and sciences (Exclusive of PzB—PZE)

PzYA	Astronomy
PzYG	Geography
PzYM	Mathematics
PZYR	Medicine and surgery
PZYRC	Craniotomy

PZZ Local anthropology and ethnology

With the local list

This includes Somatology, Prehistoric archaeology,
and Sociology, by countries or peoples.

