BE INSPIRED The University Library

University of Leeds Classification of Books Mathematics

[A General]

- A-0.01 Periodicals
- A-0.02 Series
- A-0.03 Collections of essays, symposia etc.
- A-0.04 Guides to the literature; bibliographies
- A-0.05 Methodology and philosophy of mathematics
- A-0.06 Study and teaching
- A-0.19 Dictionaries, encyclopaedias (except statistics see Mathematics K)
- A-1 General texts (including mathematics for non-mathematicians)
- A-1.1 Treatises on mathematics (e.g. Bourbaki)
- A-1.2 Mathematics for engineers and scientists See also Engineering B-1
- A-2 Logic and foundations
- A-2.1 Set theory
- A-4 Combinatorics (including graph theory)

[B History & biography]

- B-1 General works
- No longer used; see History of Science E No longer used ; see History of Science C-9
- B-2 BiographyB-2.1 Collected works

[C Number theory; Arithmetic]

- C-0 Elementary and general works; Arithmetic
- C-1 Algebraic number theory, field theory and polynomials
- C-2 Special topics not in the above

[D Algebra]

- Algebras of functions: see F-4
- D-1 Elementary and general works
- D-3 Linear and multilinear algebra; Matrix theory
- D-4 Category theory, homological algebra
- D-5 Rings and algebras commutative associative non-associative (including Lié algebras)



- D-6 Group theory and generalisations (including quantum groups)
- D-6.1 Topological groups (including Lié groups)
- D-7 Special topics not in the above, including: general mathematical systems order, lattices, ordered algebraic systems Boolean algebras
- [E Geometry; Trigonometry]
- E-0 Elementary (up to S-level) and general works
- E-0.19 Dictionaries
- E-2 Classical geometry (including Euclidean, elliptic, projective,
- spherical and hyperbolic geometries)
- E-4 Algebraic geometry
- E-5 Differential geometry
- E-6 Topology, including:
 - algebraic topology
 - manifolds and cell-complexes
 - Riemann surfaces
 - For topological linear and vector spaces see F-4.1
 - For topological groups see D-6.1
- E-7 Special topics not in the above (including convex sets and geometric inequalities)

[F Analysis]

- F-0 Elementary (up to 1st year undergraduate level)
- F-1 General works (including collections of articles)
- F-2 Theory of functions of real and complex variables
 F-2.1 functions of real variables (including vector calculus) sequences, series, summability
 Asymptotic expansions see F-7
- F-2.2 functions of one complex variable *Analysis on manifolds see F-7* F-2.3 functions of several complex variables & analytic spaces
- F-3 Differential and difference equations Stability theory see F-7
- F-3.1 ordinary differential equations
- F-3.2 partial differential equations
- F-3.3 finite difference and functional equations
- F-4 Functional analysis and related topics
- F-4.1 Functional analysis (including works written for engineers and scientists) F-4.11 operator theory (including c* and w* algebras; von Neumann algebras)
- F-4.2 Fourier analysis and Fourier transforms
- abstract harmonic analysis
- F-4.3 Integral transforms
- F-4.4 Integral and integro-differential equations
- F-6 Measure and integration
- F-7 Special topics not in the above, including:

potential theory

- approximation theory
- global analysis, analysis on manifolds
- (including differentiable dynamical systems and stability theory)
- F-7.3 calculus of variations

G-1 Tables and data

Except statistical tables - see Mathematics K-0.09

[H Theoretical mechanics]

- H-0.19 Dictionaries
- H-1 General works; mechanics of particles and systems
- H-2 Mechanics of solids (including general continuum mechanics)
- H-3 Fluid dynamics
- H-3.1 incompressible
- H-3.2 compressible
- H-3.3 magnetohydrodynamics and electrohydrodynamics
- H-3.4 aerohydrodynamics and aeronautics

[J Mathematical physics]

- J-1 Mathematical techniques (including general techniques for engineers and scientists); Includes string theory, supersymmetry *Preferred location* (See also Physics A-2) J-2 Relativity
- [J-3 Special topics, including thermodynamics, optics, electricity, magnetism] No longer used

[K Probability & statistics]

- K-0.02 Series
- K-0.03 Collected works
- K-0.04 Bibliographies, guides to the literature
- [K-0.06 History and philosophy] No longer used : see History of Science
- K-0.09 Tables and data
- K-0.19 Dictionaries, encyclopaedias, handbooks
- K-0.2 Mathematics for statisticians
- K-1 Textbooks; general works (including introductory works on probability and statistics)
- K-2 Probability (including measure theoretic aspects, limit theorems, characteristic functions etc.)
- K-3 Stochastic processes (including Markov chains & processes, theory of queues; reliability theory; renewal theory; diffusion; applied probability; optimal stopping)
- K-4 Distribution theory (including binomial and normal distributions; shape, & other descriptive statistics)
- K-5 Statistical inference
- K-5.1 parametric inference (including estimation and hypothesis testing)
- K-5.2 decision theory (including Bayesian methods)
- K-5.3 sequential methods (including order statistics, ranking)
- K-5.4 non-parametric inference (including theory of sequential procedures) K-5.9 other topics not in the above (including information theory)
- K-6 Linear inference (including regression analysis; variance and covariance analysis; functional and structural relationships; non-orthogonal data and missing values; curve fitting)
- K-7 Design of experiments (including particular designs e.g. randomised blocks, Latin squares, response surfaces, repeated and sequential experiments)
- K-8 Sampling techniques (including censoring and non-response; quality control)
- K-9 Multivariate analysis (including multidimensional scaling, cluster analysis, principal components, factor analysis, taxonomy, latent structure analysis, discriminant analysis)
- K-10 Time series (including forecasting; spectral theory)
- K-11 Computational statistics *Theory of computation and programming: see Computer Studies*

- K-11.1 programming techniques (including Monte Carlo techniques; curve fitting, algorithms)
- K-12 Applied statistics (including data analysis; error analysis)
- K-12.1 applied statistics in different disciplines e.g. science, engineering, medicine For statistical works devoted to one subject see also the appropriate subject
- K-13 Special topics
- K-13.1 directional data
- K-13.2 analysis of binary data
- K-13.3 probit analysis
- K-13.4 life-testing
- K-13.9 others

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