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and intuitive approach to the classical and beautiful theory of complex variables. With very little dependence on advanced concepts from several-variable calculus and topology, the text focuses on the authentic complex-variable ideas and techniques. Accessible to students at their early stages of mathematical study, this full first year course in complex analysis offers

new and interesting motivations for classical results and introduces related topics stressing motivation and technique. Numerous illustrations, examples, and now 300 exercises, enrich the text. Students who master this textbook will emerge with an excellent grounding in complex analysis, and a solid understanding of its wide applicability. *A Course on Group Theory*

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books. It also contains a large number of worked examples and exercises dealing with problems in fluid mechanics, gas dynamics, optics, plasma physics, elasticity, biology, and chemistry; solutions are provided. Problems and Solutions Nova Publishers Algebra: Abstract and Modern, introduces the reader to the preliminaries of algebra and then explains topics like group theory

and field theory in depth. It also features a blend of numerous challenging exercises and examples that further enhance e Problems in Abstract Algebra Cengage Learning Classical Sets Fuzzy Relation Equations Basic Concepts On Fuzzy Sets Possibility Theory Fuzzy Sets Versus Crisp Sets Fuzzy Logic Operations On Fuzzy Sets Uncertainty-Based Information

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Discussed In
Detail.
Uniform
Convergence,
Power Series,
Fourier Series,
Improper
Integrals Have
Been
Presented In
As Simple And
Lucid Manner
As Possible
And Fairly
Large Number
Solved
Examples To
Illustrate
Various Types
Have Been
Introduced.As
Per Need, In
The Present
Set Up, A
Chapter On
Metric Spaces
Discussing
Completeness,
Compactness
And
Connectednes
s Of The

Spaces Has
Been Added.
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Appendices
Discussing
Beta-Gamma
Functions, And
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Theory Of
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undergraduat
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mathematics,
this textbook
covers both
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tensor in a
single volume.
This book
aims to
provide a
conceptual
exposition of
the
fundamental
results in the
theory of
tensors. It also
illustrates the
applications of
tensors to
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geometry,
mechanics
and relativity.
Organized in
ten chapters,
it provides the
origin and
nature of the
tensor along
with the scope
of the tensor
calculus.
Besides this, it
also discusses
N-dimensional
Riemannian

space, characteristic peculiarity of Riemannian space, intrinsic property of surfaces, and properties and transformation of Christoffel's symbols. Besides the students of mathematics, this book will be equally useful for the postgraduate students of physics. KEY FEATURES : Contains 250 worked out examples Includes more than 350 unsolved problems Gives thorough foundation in

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Mathematica I Analysis
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 Algebra is a compulsory paper offered to the undergraduate students of Mathematics. The majority of universities offer the subject as a two /three year paper or in two/three semesters. Algebra I: A Basic Course in Abstract Algebra covers the topic required for a basic course.
Complex Variables with

Applications
 Springer Science & Business Media
 Accessible but rigorous, this outstanding text encompasses all of the topics covered by a typical course in elementary abstract algebra. Its easy-to-read treatment offers an intuitive approach, featuring informal discussions followed by thematically arranged exercises. This second edition features additional

exercises to improve student familiarity with applications. 1990 edition. *A Textbook of Algebra* McGraw Hill Professional Designed for undergraduate and postgraduate students of mathematics, the book can also be used by those preparing for various competitive examinations. The text starts with a brief introduction to results from Set theory and Number theory. It then goes on to

cover Groups, Rings, Fields and Linear Algebra. The topics under groups include subgroups, finitely generated abelian groups, group actions, solvable and nilpotent groups. The course in ring theory covers ideals, embedding of rings, Euclidean domains, PIDs, UFDs, polynomial rings, Noetherian (Artinian) rings. Topics of field include algebraic extensions, splitting fields,

normal extensions, separable extensions, algebraically closed fields, Galois extensions, and construction by ruler and compass. The portion on linear algebra deals with vector spaces, linear transformations, Eigen spaces, diagonalizable operators, inner product spaces, dual spaces, operators on inner product spaces etc. The theory has been strongly supported by

numerous examples and worked-out problems. There is also plenty of scope for the readers to try and solve problems on their own. New in this Edition • A full section on operators in inner product spaces. • Complete survey of finite groups of order up to 15 and Wedderburn theorem on finite division rings. • Addition of around one hundred new worked-out problems and examples. •

Alternate and simpler proofs of some results. • A new section on quick recall of various useful results at the end of the book to facilitate the reader to get instant answers to tricky questions. *Schaum's Outline of Complex Variables, 2ed* Academic Publishers The book caters to the 1st semester students of BSc (Hons) Mathematics of Indian universities. It has been written strictly

in accordance with the CBCS syllabus of the UGC. The book teaches the concepts and techniques of basic algebra with a focus on explaining definitions and theorems, and creating proofs. The theory is supported by numerous examples and plenty of worked-out problems. Its strict logical organization has been designed to help the reader to develop confidence in the subject. By introducing

various interesting applications of algebra the book also aims at creating a broad and solid foundation for the study of advanced mathematics. The contents covered in the book are equivalence relations, functions, cardinality, congruence-modulo, mathematical induction and De Moivre's theorem. Further, some basic topics of linear algebra like vectors and matrices, linear

equations, Gauss elimination, subspace and its dimension, rank-nullity theorem, linear transformations and their relations to matrices, and eigenvalues and eigenvectors are also covered. Since practice makes the man perfect, there are a good number of problems that stretch the thinking power of the learner. The problems are graded from easy to those involving higher order

thinking. By its virtue the book inculcates that mathematical maturity which students need in their current and future courses to grow up into mathematicians of substance. *Ordinary and Partial Differential Equations* Springer Linear Algebra is designed for postgraduate and undergraduate students of Mathematics. This book explains the basics comprehensiv

ely and with clarity. The flowing narrative of the book provides a refreshing approach to the subject. Drawing on a decade of teaching *Algebra 2* at Vikas Group, Group theory is the branch of mathematics that studies symmetry, found in crystals, art, architecture, music and many other contexts, but its beauty is lost on students when it is taught in a technical style that is difficult to

understand. *Visual Group Theory* assumes only a high school mathematics background and covers a typical undergraduate course in group theory from a thoroughly visual perspective. The more than 300 illustrations in *Visual Group Theory* bring groups, subgroups, homomorphisms, products, and quotients into clear view. Every topic and theorem is accompanied with a visual

demonstration of its meaning and import, from the basics of groups and subgroups through advanced structural concepts such as semidirect products and Sylow theory. *Contemporary Abstract Algebra S.* Chand Publishing A clear and structured introduction to the subject. After a chapter on the definition of rings and modules there are brief accounts of Artinian rings, commutative

Noetherian rings and ring constructions, such as the direct product, Tensor product and rings of fractions, followed by a description of free rings. Readers are assumed to have a basic understanding of set theory, group theory and vector spaces. Over two hundred carefully selected exercises are included, most with outline solutions.

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 An undergraduat e-level introduction to number theory, with

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cryptography. The final part, suitable for third-year students, uses ideas from algebra, analysis, calculus and geometry to study Dirichlet series and sums of squares. In particular, the last chapter gives a concise account of Fermat's Last Theorem, from its origin in the ancient Babylonian and Greek study of Pythagorean triples to its recent proof

by Andrew Wiles. [Integral Equation & Boundary Value Problem](#) PHI Learning Pvt. Ltd. This book has been designed for Undergraduate (Honours) and Postgraduate students of various Indian Universities. A set of objective problems has been provided at the end of each chapter which will be useful to the aspirants of competitive examinations

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