

Abstract Algebra Khanna Bhambri Abstract Algebra Khanna Bhambri

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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

this book on group theory for undergraduate students mathematics scholarship test nbhm tifr jest jrf ls csir ugc net m sc entrance test iit jam ph d admission entrance test iit gate aspirants of civil services examinations upsc cse and ifs state pcs drdo examinations etc in this book all the topics of group theory are discussed with theory and suitable examples the book is divided into eight chapters viz groups subgroups normal subgroups homomorphism direct products in group theory sylow s theorems group actions and finite groups all chapters containing solved examples solution of previous years question papers of different competitive examinations upsc cse upsc ifs nbhm csir ugc net gate bpsc iit jam and exercises

topology is a branch of mathematics that studies the properties of spaces that are preserved under continuous deformations such as stretching or bending but not tearing or gluing it focuses on concepts like continuity open and closed sets compactness and connectedness without relying on exact measurements like distance or angles a key idea is the topological space a set with a structure that defines which subsets are open two spaces are considered topologically equivalent homeomorphic if they can be transformed into each other through continuous functions with continuous inverses topology has various branches including point set topology algebraic topology and differential topology and it plays a foundational role in fields like geometry analysis and theoretical physics starts with point set topology basic definitions open closed sets interior closure boundary etc pearsoned co in moves on to continuous functions and homeomorphisms metric spaces pearsoned co in key topological properties connectedness compactness pearsoned co in advanced topics applications knots robotics graphs manifolds embeddings fixed point theorems homotopy theory degree theory pearsoned co in also includes topics like dynamical systems and chaos

a textbook of discrete mathematics provides an introduction to fundamental concepts in

discrete mathematics the study of mathematical structures which are fundamentally discrete rather than continuous it explains how concepts of discrete mathematics are important and useful in branches of computer science such as computer algorithms programming languages automated theorem proving and software development to name a few written in a simple and lucid style it has a balanced mix of theory and application to illustrate the implication of theory it is designed for the students of graduate and postgraduate courses in computer science and computer engineering the students pursuing it related professional courses may also be benefitted

the book has been designed for the students of commerce and economics it covers a vast selection of topics including sets logic number system algebra both classical and modern geometry trigonometry matrices determinants linear programming vectors calculus both differential and integral along with applications to commerce and economics it is a self contained book that requires only school level knowledge of mathematics

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this book is the first to be devoted entirely to fuzzy abstract algebra it presents an up to date version of fuzzy commutative algebra and focuses on the connection between l subgroups of a group and l subfields of a field in particular an up to date treatment of nonlinear systems of fuzzy intersection equations is given

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

this textbook provides an introduction to abstract algebra for advanced undergraduate students

based on the authors lecture notes at the department of mathematics national chung cheng university of taiwan it begins with a description of the algebraic structures of the ring and field of rational numbers abstract groups are then introduced technical results such as lagrange s theorem and sylow s theorems follow as applications of group theory ring theory forms the second part of abstract algebra with the ring of polynomials and the matrix ring as basic examples the general theory of ideals as well as maximal ideals in the rings of polynomials over the rational numbers are also discussed the final part of the book focuses on field theory field extensions and then galois theory to illustrate the correspondence between the galois groups and field extensions this textbook is more accessible and less ambitious than most existing books covering the same subject readers will also find the pedagogical material very useful in enhancing the teaching and learning of abstract algebra

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