

# 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

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no detailed description available for an introduction to abstract algebra

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a comprehensive presentation of abstract algebra and an in depth treatment of the applications of algebraic techniques and the relationship of algebra to other disciplines such as number theory combinatorics geometry topology differential equations and markov chains

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the new edition of abstract algebra an interactive approach presents a hands on and traditional approach to learning groups rings and fields it then goes further to offer optional technology use to create opportunities for interactive learning and computer use this new edition offers a more traditional approach offering additional topics to the primary syllabus placed after primary topics are covered this creates a more natural flow to the order of the subjects presented this edition is transformed by historical notes and better explanations of why topics are covered this innovative textbook shows how students can better grasp difficult algebraic concepts through the use of computer programs it encourages students to experiment with various applications of abstract algebra thereby obtaining a real world perspective of this area each chapter includes corresponding sage notebooks traditional exercises and several interactive computer problems that utilize sage and mathematica to explore groups rings fields and additional topics this text does not sacrifice mathematical rigor it covers classical proofs such as abel s theorem as well as many topics not found in most standard introductory texts the author explores semi direct products polycyclic groups rubik s cube like puzzles and wedderburn s theorem the author also incorporates problem sequences that allow students to delve into interesting topics including fermat s two square theorem

this two volume course on abstract algebra provides a broad introduction to the subject for those with no previous knowledge of it but who are well grounded in ordinary algebraic techniques it starts from the beginning leading up to fresh ideas gradually and in a fairly elementary manner and moving from discussion of particular concrete cases to abstract ideas and methods it thus avoids the common practice of presenting the reader with a mass of ideas at the beginning which he is only later able to relate to his previous mathematical experience the work contains many concrete examples of algebraic structures each chapter contains a few worked examples for the student these are divided into straightforward and more advanced categories answers are provided from general sets volume 1 leads on to discuss special sets of the integers other number sets residues polynomials and vectors a chapter on mappings is followed by a detailed study of the fundamental laws of algebra and an account of the theory of groups which takes the idea of subgroups as far as langrange s theorem some improvements in exposition found desirable by users of the book have been incorporated into the second edition and the opportunity has also been taken to correct a number of errors

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