

Elementary Algebra

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in the two volume set a selection of highlights we present basics of mathematics in an exciting and pedagogically sound way this volume examines fundamental results in algebra and number theory along with their proofs and their history in the second edition we include additional material on perfect and triangular numbers we also added new sections on elementary group theory p-adic numbers and galois theory a true collection of mathematical gems in algebra and number theory including the integers the reals and the complex numbers along with beautiful

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this book gives an advanced overview of several topics in infinite group theory it can also be considered as a rigorous introduction to combinatorial and geometric group theory the philosophy of the book is to describe the interaction between these two important parts of infinite group theory in this line of thought several theorems are proved multiple times with different methods either purely combinatorial or purely geometric while others are shown by a combination of arguments from both perspectives the first part of the book deals with nielsen methods and introduces the reader to results and examples that are helpful to understand the following parts the second part focuses on covering spaces and fundamental groups including covering space proofs of group theoretic results the third part deals with the theory of hyperbolic groups the subjects are illustrated and described by prominent examples and an outlook on solved and unsolved problems

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detailed description

this two volume graduate textbook gives a comprehensive state of the art account of describing large subgroups of the unit group of the integral group ring of a finite group and more generally of the unit group of an order in a finite dimensional semisimple rational algebra since the book is addressed to graduate students as well as young researchers all required background on these diverse areas both old and new is included supporting problems illustrate the results and complete some of the proofs volume 1 contains all the details on describing generic constructions of units and the subgroup they generate volume 2 mainly is about structure theorems and geometric methods without being encyclopaedic all main results and techniques used to achieve these results are included basic courses in group theory ring theory and field theory are assumed as background

in this book ring theoretical properties of skew laurent series rings $a \times \phi$ over a ring a where a is an associative ring with non zero identity element are described in addition we consider laurent rings and malcev neumann rings which are proper extensions of skew laurent series rings

this book contains surveys and research articles on the state of the art in finitely presented groups for researchers and graduate students overviews of current trends in exponential groups and of the classification of finite triangle groups and finite generalized tetrahedron groups are complemented by new results on a conjecture of rosenberger and an approximation theorem a special emphasis is on

algorithmic techniques and their complexity both for finitely generated groups and for finite \mathbb{Z} algebras including explicit computer calculations highlighting important classical methods a further chapter surveys connections to mathematical logic in particular to universal theories of various classes of groups and contains new results on countable elementary free groups applications to cryptography include overviews of techniques based on representations of p groups and of non commutative group actions further applications of finitely generated groups to topology and artificial intelligence complete the volume all in all leading experts provide up to date overviews and current trends in combinatorial group theory and its connections to cryptography and other areas

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