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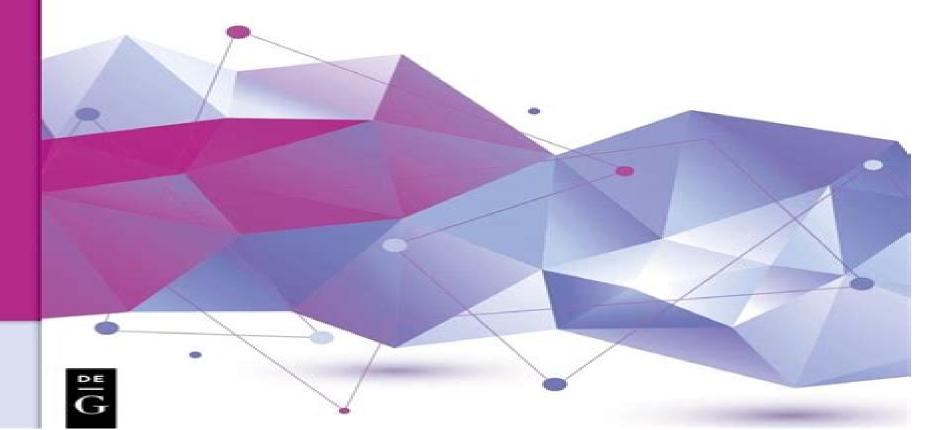
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# ABSTRACT ALGEBRA

AN INTRODUCTION WITH APPLICATIONS

3RD EDITION



# **Abstract Algebra Textbook**

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Bharavi Sharma

#### **Abstract Algebra Textbook:**

An Introduction to Abstract Algebra Derek J.S. Robinson, 2008-08-22 No detailed description available for An Introduction **Abstract Algebra** Derek J.S. Robinson, 2015-05-19 This is a high level introduction to abstract algebra which is aimed at readers whose interests lie in mathematics and in the information and physical sciences In addition to introducing the main concepts of modern algebra the book contains numerous applications which are intended to illustrate the concepts and to convince the reader of the utility and relevance of algebra today In particular applications to Polya coloring theory latin squares Steiner systems and error correcting codes are described Another feature of the book is that group theory and ring theory are carried further than is often done at this level There is ample material here for a two semester course in abstract algebra The importance of proof is stressed and rigorous proofs of almost all results are given But care has been taken to lead the reader through the proofs by gentle stages. There are nearly 400 problems of varying degrees of difficulty to test the reader s skill and progress The book should be suitable for students in the third or fourth year of study at a North American university or in the second or third year at a university in Europe and should ease the transition Abstract Algebra Gregory T. Lee, 2018-04-13 This carefully written textbook offers a thorough to post graduate studies introduction to abstract algebra covering the fundamentals of groups rings and fields The first two chapters present preliminary topics such as properties of the integers and equivalence relations. The author then explores the first major algebraic structure the group progressing as far as the Sylow theorems and the classification of finite abelian groups An introduction to ring theory follows leading to a discussion of fields and polynomials that includes sections on splitting fields and the construction of finite fields The final part contains applications to public key cryptography as well as classical straightedge and compass constructions Explaining key topics at a gentle pace this book is aimed at undergraduate students It assumes no prior knowledge of the subject and contains over 500 exercises half of which have detailed solutions provided

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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 **Abstract Algebra** Stephen Lovett, 2022-07-05 When a student of mathematics studies abstract algebra he or she inevitably faces questions in the vein of What is abstract algebra or What makes it abstract Algebra in its broadest sense describes a way of thinking about classes of sets equipped with binary operations In high school algebra a student explores properties of operations and on real numbers Abstract algebra studies properties of operations without specifying what types of number or object we work with Any theorem established in the abstract context holds not only for real numbers but for every possible algebraic structure that has operations with the stated properties This textbook intends to serve as a first course in abstract algebra The selection of topics serves both of the common trends in such a course a balanced introduction to groups rings and fields or a course that primarily emphasizes group theory. The writing style is student centered conscientiously motivating definitions and offering many illustrative examples Various sections or sometimes just examples or exercises introduce applications to geometry number theory cryptography and many other areas This book offers a unique feature in the lists of projects at the end of each section the author does not view projects as just something extra or cute but rather an opportunity for a student to work on and demonstrate their potential for open ended investigation The projects ideas come in two flavors investigative or expository The investigative projects briefly present a topic and posed open ended questions that invite the student to explore the topic asking and to trying to answer their own questions Expository projects invite the student to explore a topic with algebraic content or pertain to a particular mathematician s work through responsible research The exercises challenge the student to prove new results using the theorems presented in the text The student then becomes an active participant in the development of the field

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