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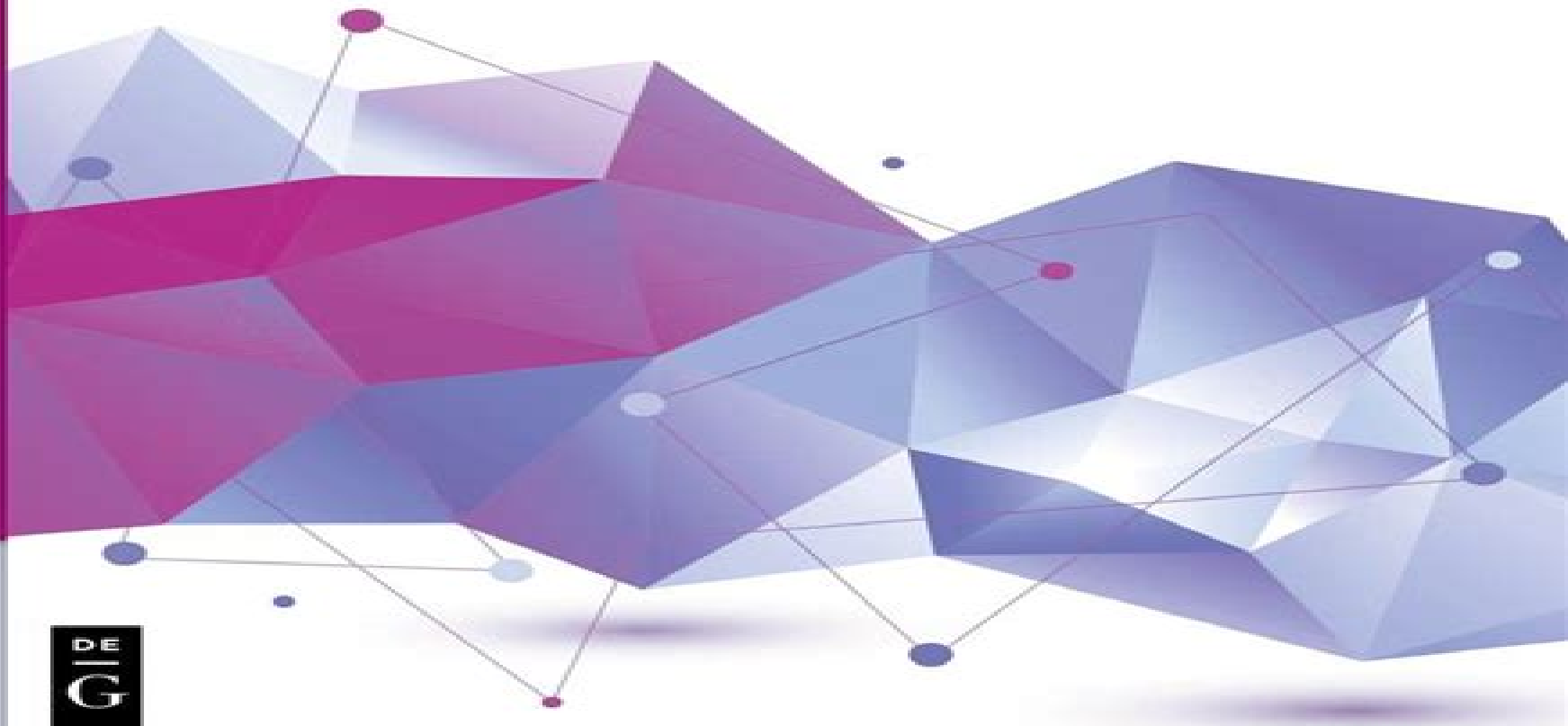
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Derek J. S. Robinson

ABSTRACT ALGEBRA

AN INTRODUCTION WITH APPLICATIONS

3RD EDITION



Abstract Algebra Textbook

Gregory T. Lee



Abstract Algebra Textbook:

An Introduction to Abstract Algebra Derek J.S. Robinson, 2008-08-22 No detailed description available for An Introduction to Abstract Algebra 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 to post graduate studies Abstract Algebra Gregory T. Lee, 2018-04-13 This carefully written textbook offers a thorough 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

Contemporary Abstract Algebra Joseph Gallian, 2021-01-19 Contemporary Abstract Algebra Tenth Edition For more than three decades this classic text has been widely appreciated by instructors and students alike The book offers an enjoyable read and conveys and develops enthusiasm for the beauty of the topics presented It is comprehensive lively and engaging The author presents the concepts and methodologies of contemporary abstract algebra as used by working mathematicians computer scientists physicists and chemists Students will learn how to do computations and to write proofs A unique feature of the book are exercises that build the skill of generalizing a skill that students should develop but rarely do Applications are included to illustrate the utility of the abstract concepts Examples and exercises are the heart of the book Examples elucidate the definitions theorems and proof techniques exercises facilitate understanding provide insight and develop the ability to do proofs The exercises often foreshadow definitions concepts and theorems to come Changes for the tenth edition include new exercises new examples new quotes and a freshening of the discussion portions The hallmark features of previous editions of

the book are enhanced in this edition These include A good mixture of approximately 1900 computational and theoretical exercises including computer exercises that synthesize concepts from multiple chapters Approximately 300 worked out examples from routine computations to the challenging Many applications from scientific and computing fields and everyday life Historical notes and biographies that spotlight people and events Motivational and humorous quotations Numerous connections to number theory and geometry While many partial solutions and sketches for the odd numbered exercises appear in the book an Instructor s Solutions Manual written by the author has comprehensive solutions for all exercises and some alternative solutions to develop a critical thought and deeper understanding It is available from CRC Press only The Student Solution Manual has comprehensive solutions for all odd numbered exercises and many even numbered exercises

A Textbook of B.Sc. Mathematics Abstract Algebra V. Venkateswara Rao, N. Krishnamurthy, B.V.S.S. Sarma S. Anjaneya Sastry, S. Ranganatham & R. Bharavi Sharma, A Textbook of B Sc Mathematics Abstract Algebra **Abstract Algebra** Joseph H. Silverman, 2022-03-07 This abstract algebra textbook takes an integrated approach that highlights the similarities of fundamental algebraic structures among a number of topics The book begins by introducing groups rings vector spaces and fields emphasizing examples definitions homomorphisms and proofs The goal is to explain how all of the constructions fit into an axiomatic framework and to emphasize the importance of studying those maps that preserve the underlying algebraic structure This fast paced introduction is followed by chapters in which each of the four main topics is revisited and deeper results are proven The second half of the book contains material of a more advanced nature It includes a thorough development of Galois theory a chapter on modules and short surveys of additional algebraic topics designed to whet the reader s appetite for further study This book is intended for a first introduction to abstract algebra and requires only a course in linear algebra as a prerequisite The more advanced material could be used in an introductory graduate level course **Introduction to Abstract Algebra** Jonathan D. H. Smith, 2015-10-23 Introduction to Abstract Algebra Second Edition presents abstract algebra as the main tool underlying discrete mathematics and the digital world It avoids the usual groups first rings first dilemma by introducing semigroups and monoids the multiplicative structures of rings along with groups This new edition of a widely adopted textbook covers Abstract Algebra William Paulsen, 2016-02-10 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

A Book of Abstract Algebra Charles C Pinter, 2010-01-14 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

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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