

Dummit And Foote Abstract Algebra

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widely acclaimed algebra text this book is designed to give the reader insight into the power and beauty that accrues from a rich interplay between different areas of mathematics the book carefully develops the theory of different algebraic structures beginning from basic definitions to some in depth results using numerous examples and exercises to aid the reader s understanding in this way readers gain an appreciation for how mathematical structures and their interplay lead to powerful results and insights in a number of different settings the emphasis throughout has been to motivate the introduction and development of important algebraic concepts using as many examples as possible

abstract algebra an interactive approach third edition is a new concept in learning modern algebra although all the expected topics are covered thoroughly and in the most popular order the text offers much flexibility perhaps more significantly the book gives professors and students the option of including technology in their courses each chapter in the textbook has a corresponding interactive mathematica notebook and an interactive sagemath workbook that can be used in either the classroom or outside the classroom students will be able to visualize the important abstract concepts such as groups and rings by displaying multiplication tables homomorphisms by showing a line graph between two groups and permutations this in turn allows the students to learn these difficult concepts much more quickly and obtain a firmer grasp than with a traditional textbook thus the colorful diagrams produced by mathematica give added value to the students teachers can run the mathematica or sagemath notebooks in the classroom in order to have their students visualize the dynamics of groups and rings students have the option of running the notebooks at home and experiment with different groups or rings some of the exercises require technology but most are of the standard type with various difficulty levels the third edition is meant to be used in an undergraduate single semester course reducing the breadth of coverage size and cost of the previous editions additional changes include binary operators are now in an independent section the extended euclidean algorithm is included many more homework problems are added to some sections mathematical induction is moved to section 1.2 despite the emphasis on additional software the text is not short on rigor all of the classical proofs are included although some of the harder proofs can be shortened by using technology

reflects the authors belief that readers should be given some insight into the the main themes of abstract algebra as well as an understanding of how these themes provide a unifying framework for the study of basic algebra structures such as groups rings and fields

group theory ring theory modules and vector spaces field theory and galois theory an introduction to commutative rings algebraic geometry and homological algebra introduction to the representation theory of finite groups

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

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

this text offers a friendly and concise introduction to abstract algebra emphasizing its uses in the modern world

this book is mainly intended for first year university students who undertake a basic abstract algebra course as well as instructors it contains the basic notions of abstract algebra through solved exercises as well as a true or false section in each chapter each chapter also contains an

essential background section which makes the book easier to use

designed for advanced undergraduate and beginning graduate students in linear or abstract algebra advanced linear algebra covers theoretical aspects of the subject along with examples computations and proofs it explores a variety of advanced topics in linear algebra that highlight the rich interconnections of the subject to geometry algebra analysis combinatorics numerical computation and many other areas of mathematics the author begins with chapters introducing basic notation for vector spaces permutations polynomials and other algebraic structures the following chapters are designed to be mostly independent of each other so that readers with different interests can jump directly to the topic they want this is an unusual organization compared to many abstract algebra textbooks which require readers to follow the order of chapters each chapter consists of a mathematical vignette devoted to the development of one specific topic some chapters look at introductory material from a sophisticated or abstract viewpoint while others provide elementary expositions of more theoretical concepts several chapters offer unusual perspectives or novel treatments of standard results a wide array of topics is included ranging from concrete matrix theory basic matrix computations determinants normal matrices canonical forms matrix factorizations and numerical algorithms to more abstract linear algebra modules hilbert spaces dual vector spaces bilinear forms principal ideal domains universal mapping properties and multilinear algebra the book provides a bridge from elementary computational linear algebra to more advanced abstract aspects of linear algebra needed in many areas of pure and applied mathematics

designed for advanced undergraduate and beginning graduate students in linear or abstract algebra advanced linear algebra covers theoretical aspects of the subject along with examples computations and proofs it explores a variety of advanced topics in linear algebra that highlight the rich interconnections of the subject to geometry algebra

helping to make the study of modern algebra more accessible this text gradually introduces and develops concepts through helpful features that provide guidance on the techniques of proof construction and logic analysis the text develops mathematical maturity for students by presenting the material in a theorem proof format with definitions and major results easily located through a

user friendly format the treatment is rigorous and self contained in keeping with the objectives of training the student in the techniques of algebra and of providing a bridge to higher level mathematical courses

appropriate for a 1 or 2 term course in abstract algebra at the junior level this book explores the essential theories and techniques of modern algebra including its problem solving skills basic proof techniques many unusual applications and the interplay between algebra and geometry it takes a concrete example oriented approach to the subject matter

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Introduction

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