

First Course In Abstract Algebra

A First Course in Abstract Algebra Introduction To Abstract Algebra, An: Sets, Groups, Rings, And Fields A Course in Abstract Algebra, 4th Edition A Course in Abstract Algebra, 5th Edition A History of Abstract Algebra Algebra I: A Basic Course in Abstract Algebra Lectures in Abstract Algebra Lectures in Abstract Algebra Discovering Abstract Algebra Abstract Algebra: An Introduction To Groups, Rings And Fields Lectures in Abstract Algebra Modern Abstract Algebra Concepts in Abstract Algebra Topics In Abstract Algebra (second Edition) Introduction to Abstract Algebra A First Course in Abstract Algebra Lectures in abstract algebra. 1. Basic concepts Abstract Algebra An Introduction to Abstract Algebra Lectures in Abstract Algebra John B. Fraleigh Steven Howard Weintraub V.K. Khanna & S.K Bhamri Khanna V.K. & Bhamri S.K Israel Kleiner Rajendra Kumar Sharma N. Jacobson Nathan Jacobson John K. Osoinach, Jr. Clive Reis N. Jacobson David C. Buchthal Charles Lanski P. Mukhopadhyay Neal Henry McCoy Marlow Anderson Nathan Jacobson William Paulsen Derek J.S. Robinson Nathan Jacobson A First Course in Abstract Algebra Introduction To Abstract Algebra, An: Sets, Groups, Rings, And Fields A Course in Abstract Algebra, 4th Edition A Course in Abstract Algebra, 5th Edition A History of Abstract Algebra Algebra I: A Basic Course in Abstract Algebra Lectures in Abstract Algebra Lectures in Abstract Algebra Discovering Abstract Algebra Abstract Algebra: An Introduction To Groups, Rings And Fields Lectures in Abstract Algebra Modern Abstract Algebra Concepts in Abstract Algebra Topics In Abstract Algebra (second Edition) Introduction to Abstract Algebra A First Course in Abstract Algebra Lectures in abstract algebra. 1. Basic concepts Abstract Algebra An Introduction to Abstract Algebra Lectures in Abstract Algebra John B. Fraleigh Steven Howard Weintraub V.K. Khanna & S.K Bhamri Khanna V.K. & Bhamri S.K Israel Kleiner Rajendra Kumar Sharma N. Jacobson Nathan Jacobson John K. Osoinach, Jr. Clive Reis N. Jacobson David C. Buchthal Charles Lanski P. Mukhopadhyay Neal Henry McCoy Marlow Anderson Nathan Jacobson William Paulsen Derek J.S. Robinson Nathan Jacobson

considered a classic by many a first course in abstract algebra is an in depth introductory text which gives students a firm foundation for more specialized work by emphasizing an understanding of the nature of algebraic structures the sixth edition continues its tradition of teaching in a classical manner while integrating field theory and new exercises

this book is a textbook for a semester long or year long introductory course in abstract algebra at the upper undergraduate or beginning graduate level it treats set theory group theory ring and ideal theory and field theory including galois theory and culminates with a

treatment of dedekind rings including rings of algebraic integers in addition to treating standard topics it contains material not often dealt with in books at this level it provides a fresh perspective on the subjects it covers with in particular distinctive treatments of factorization theory in integral domains and of galois theory as an introduction it presupposes no prior knowledge of abstract algebra but provides a well motivated clear and rigorous treatment of the subject illustrated by many examples written with an eye toward number theory it contains numerous applications to number theory including proofs of fermat's theorem on sums of two squares and of the law of quadratic reciprocity and serves as an excellent basis for further study in algebra in general and number theory in particular each of its chapters concludes with a variety of exercises ranging from the straightforward to the challenging in order to reinforce students knowledge of the subject some of these are particular examples that illustrate the theory while others are general results that develop the theory further

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 vector spaces linear algebra and fields the topics under groups include subgroups permutation groups finite abelian groups sylow theorems direct products group actions solvable and nilpotent groups the course in ring theory covers ideals embedding of rings euclidean domains pids ufds polynomial rings irreducibility criteria noetherian rings the section on vector spaces deals with linear transformations inner product spaces dual spaces eigen spaces diagonalizable operators etc under fields algebraic extensions splitting fields normal and separable extensions algebraically closed fields galois extensions and construction by ruler and compass are discussed 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 learning objectives and summary with each chapter a large number of additional worked out problems and examples alternate proofs of some theorems and lemmas reshuffling rewriting of certain portions to make them more reader friendly

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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

prior to the nineteenth century algebra meant the study of the solution of polynomial equations by the twentieth century it came to encompass the study of abstract axiomatic systems such as groups rings and fields this presentation provides an account of the history of the basic concepts results and theories of abstract algebra the development of abstract algebra was propelled by the need for new tools to address certain classical problems that appeared unsolvable by classical means a major theme of the approach in this book is to show how abstract algebra has arisen in attempts to solve some of these classical problems providing a context from which the reader may gain a deeper appreciation of the mathematics involved mathematics instructors algebraists and historians of science will find the work a valuable reference the book may also serve as a supplemental text for courses in abstract algebra or the history of mathematics

algebra is a compulsory paper offered to the undergraduate students of mathematics the majority of universities offer the subject as a two three year paper or in two three semesters algebra i a basic course in abstract algebra covers the topic required for a basic course

the present volume completes the series of texts on algebra which the author began more than ten years ago the account of field theory and galois theory which we give here is based on the notions and results of general algebra which appear in our first volume and on the more elementary parts of the second volume dealing with linear algebra the level of the present work is roughly the same as that of volume ii in preparing this book we have had a number of objectives in mind first and foremost has been that of presenting the basic field theory which is essential for an understanding of modern algebraic number theory ring theory and algebraic geometry the parts of the book concerned with this aspect of the subject are chapters i iv and v dealing respectively with finite dimensional field extensions and galois theory general structure theory of fields and valuation theory also the results of chapter i on abelian extensions although of a somewhat specialized nature are of interest in number theory a second objective of our account has been to indicate the links between the present theory of fields and the classical problems which led to its development

discovering abstract algebra takes an inquiry based learning approach to the subject leading

students to discover for themselves its main themes and techniques concepts are introduced conversationally through extensive examples and student investigation before being formally defined students will develop skills in carefully making statements and writing proofs while they simultaneously build a sense of ownership over the ideas and results the book has been extensively tested and reinforced at points of common student misunderstanding or confusion and includes a wealth of exercises at a variety of levels the contents were deliberately organized to follow the recommendations of the maa s 2015 curriculum guide the book is ideal for a one or two semester course in abstract algebra and will prepare students well for graduate level study in algebra

this book is appropriate for second to fourth year undergraduates in addition to the material traditionally taught at this level the book contains several applications polya burnside enumeration mutually orthogonal latin squares error correcting codes and a classification of the finite groups of isometries of the plane and the finite rotation groups in euclidean 3 space it is hoped that these applications will help the reader achieve a better grasp of the rather abstract ideas presented and convince him her that pure mathematics in addition to having an austere beauty of its own can be applied to solving practical problems considerable emphasis is placed on the algebraic system consisting of congruence classes mod n under the usual operations of addition and multiplication the reader is thus introduced via congruence classes to the idea of cosets and factor groups this enables the transition to cosets and factor objects in a more abstract setting to be relatively painless the chapters dealing with applications help to reinforce the concepts and methods developed in the context of more down to earth problems most introductory texts in abstract algebra either avoid cosets factor objects and homomorphisms completely or introduce them towards the end of the book in this book these topics are dealt with early on so that the reader has at his her disposal the tools required to give elegant proofs of the fundamental theorems moreover homomorphisms play such a prominent role in algebra that they are used in this text wherever possible even if there are alternative methods of proof

the present volume is the second in the author s series of three dealing with abstract algebra for an understanding of this volume a certain familiarity with the basic concepts treated in volume i groups rings fields homomorphisms is presupposed however we have tried to make this account of linear algebra independent of a detailed knowledge of our first volume references to specific results are given occasionally but some of the fundamental concepts needed have been treated again in short it is hoped that this volume can be read with complete understanding by any student who is mathematically sufficiently mature and who has a familiarity with the standard notions of modern algebra our point of view in the present volume is basically the abstract conceptual one however from time to time we have deviated somewhat from this occasionally formal calculational methods yield sharper results moreover the results of linear algebra are not an end in themselves but are essential tools for use in

other branches of mathematics and its applications it is therefore useful to have at hand methods which are constructive and which can be applied in numerical problems these methods sometimes necessitate a somewhat lengthier discussion but we have felt that their presentation is justified on the grounds indicated a student well versed in abstract algebra will undoubtedly observe short cuts some of these have been indicated in footnotes we have included a large number of exercises in the text

the style and structure of concepts in abstract algebra is designed to help students learn the core concepts and associated techniques in algebra deeply and well providing a fuller and richer account of material than time allows in a lecture this text presents interesting examples of sufficient complexity so that students can see the concepts and results used in a nontrivial setting author charles lanski gives students the opportunity to practice by offering many exercises that require the use and synthesis of the techniques and results both readable and mathematically interesting the text also helps students learn the art of constructing mathematical arguments overall students discover how mathematics proceeds and how to use techniques that mathematicians actually employ this book is included in the brooks cole series in advanced mathematics series editor paul sally jr

this book covers the elements of abstract algebra which is a major mathematics course for undergraduate students all over the country and also for first year postgraduate students of many universities it is designed according to the new ugc syllabus prescribed for all indian universities

this is the classic text for the first undergraduate course in abstract algebra it follows the rings before groups philosophy that relies on the student's familiarity with the ring of integers to make the abstract axioms feel more concrete the text and exercises are coordinated to help the student learn to read and write mathematical proofs to achieve an understanding of the methods of proof the unique factorization theorems are presented several times in different contexts the integers are covered first then polynomial rings over a field and in the final chapter factorization in principal ideal domains results on finite fields up through existence and uniqueness are proved without the use of linear algebra the material on groups is studied in three chapters the first giving definitions and examples including permutation groups the second gives the classification of finite abelian groups the third discusses groups acting on sets and gives the proofs of the sylow theorems there are many worked examples and a large number of exercises of varying levels of difficulty by carefully selecting sections to be covered in class lectures an instructor will find this text suitable for almost any syllabus giving an introduction to abstract algebra

most abstract algebra texts begin with groups then proceed to rings and fields while groups are the logically simplest of the structures the motivation for studying groups can be

somewhat lost on students approaching abstract algebra for the first time to engage and motivate them starting with something students know and abstracting from there

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

no detailed description available for an introduction to abstract algebra

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