First Course In Abstract Algebra

A First Course in Abstract AlgebraIntroduction To Abstract Algebra, An: Sets, Groups, Rings, And FieldsA Course in Abstract Algebra, 5th EditionA History of Abstract AlgebraLectures in Abstract AlgebraLectures in abstract algebraLectures in Abstract AlgebraA First Course in Abstract AlgebraAbstract AlgebraTopics In Abstract Algebra (second Edition)Lectures in Abstract AlgebraA First Course in Abstract AlgebraA First Course in Abstract AlgebraDiscovering Abstract AlgebraLectures in Abstract AlgebraA Course in Abstract Algebra, 4th EditionLectures in abstract algebra. 1. Basic conceptsLectures in Abstract AlgebraModern Abstract AlgebraA First Course in Abstract Algebra John B. Fraleigh Steven Howard Weintraub Khanna V.K. & Bhamri S.K Israel Kleiner Nathan Jacobson Nathan Jacobson N. Jacobson Hiram Paley David R. Finston P. Mukhopadhyay Nathan Jacobson Joseph J. Rotman Marlow Anderson John K. Osoinach, Jr. Nathan Jacobson V.K. Khanna & S.K Bhamri Nathan Jacobson Nathan Jacobson David C. Buchthal Philip J. Higgins

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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 fields and linear algebra the topics under groups include subgroups finitely generated abelian groups group actions solvable and nilpotent groups the course in ring theory covers ideals embedding of rings euclidean domains pids ufds polynomial rings noetherian artinian rings topics of field include algebraic

extensions splitting fields normal extensions separable extensions algebraically closed fields galois extensions and construction by ruler and compass the portion on linear algebra deals with vector spaces linear transformations eigen 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

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 dimen sional field extensions and galois theory general structure theory of fields and valuation theory also the results of chapter ilion abelian extensions although of a somewhat specialized nature are ofinterest in number theory a second objective of our ac count has been to indicate the links between the present theory of fields and the classical problems which led to its development

this text seeks to generate interest in abstract algebra by introducing each new structure and topic via a real world application the down to earth presentation is accessible to a readership with no prior knowledge of abstract algebra students are led to algebraic concepts and questions in a natural way through their everyday experiences applications include identification numbers and modular arithmetic linear error correcting codes including cyclic codes ruler and compass constructions cryptography symmetry of patterns in the real plane abstract algebra structure and application is suitable as a text for a first course on abstract algebra whose main purpose is to generate interest in the subject or as a supplementary text for more advanced courses the material paves the way to subsequent courses that further develop the theory of abstract algebra and will appeal to students of mathematics mathematics education computer science and engineering interested in applications of algebraic concepts

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

for one semester or two semester undergraduate courses in abstract algebra this new edition has been completely rewritten the four chapters from the first edition are expanded from 257 pages in first edition to 384 in the second two new chapters have been added the first 3 chapters are a text for a one semester course the last 3 chapters are a text for a second semester the new chapter 5 groups ii contains the fundamental theorem of finite abelian groups the sylow theorems the jordan holder theorem and solvable groups and presentations of groups including a careful construction of free groups the new chapter 6 commutative rings ii introduces prime and maximal ideals unique factorization in polynomial rings in several variables noetherian rings and the hilbert basis theorem affine varieties including a proof of hilbert s nullstellensatz over the complex numbers and irreducible components and grobner bases including the generalized division algorithm and buchberger s algorithm

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

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

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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