First Course In Abstract Algebra

A First Course in Abstract AlgebraCourse On Abstract Algebra, A (Second Edition)A First Course in Abstract AlgebraIntroduction to Abstract AlgebraFundamentals of Abstract AlgebraA Primer of Abstract MathematicsA First Course in Abstract AlgebraIntroduction to Abstract AlgebraCourse in abstract algebraA Course in Abstract Algebra, 5th EditionA Course in Abstract AlgebraA Course in Abstract Algebra, 4th EditionA Course in Abstract Harmonic AnalysisA First Course in Abstract AlgebraA First Course in Abstract AlgebraA First Course in Abstract AlgebraCourse in abstract algebraA First Course in Abstract Algebra [rental Edition]First Course in Abstract AlgebraA First Graduate Course in Abstract Algebra John B. Fraleigh Minking Eie Joseph J. Rotman Benjamin Fine Mark J. DeBonis Robert B. Ash Hiram Paley J. Strother Moore Khanna V.K. & Bhamri S.K V. K. Khanna V.K. Khanna & S.K Bhamri Gerald B. Folland John Blackmon Fraleigh Philip J. Higgins Joseph J. Rotman John B Fraleigh Fraleigh John B W.J. Wickless

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 textbook provides an introduction to abstract algebra for advanced undergraduate students based on the authors notes at the department of mathematics national chung cheng university it contains material sufficient for three semesters of study it begins with a description of the algebraic structures of the ring of integers and the field of rational numbers abstract groups are then introduced technical results such as lagrange s theorem and sylow s theorems follow as applications of group theory the theory of rings and ideals forms the second part of this textbook with the ring of integers the polynomial rings and matrix rings as basic examples emphasis will be on factorization in a factorial domain the final part of the book focuses on field extensions and galois theory to illustrate the correspondence between galois groups and splitting fields of separable polynomials three whole new chapters are added to this second edition group action is introduced to give a more in depth discussion

on sylow s theorems we also provide a formula in solving combinatorial problems as an application we devote two chapters to module theory which is a natural generalization of the theory of the vector spaces readers will see the similarity and subtle differences between the two in particular determinant is formally defined and its properties rigorously proved the textbook is more accessible and less ambitious than most existing books covering the same subject readers will also find the pedagogical material very useful in enhancing the teaching and learning of abstract algebra

a new approach to abstract algebra that eases student anxieties by building on fundamentals introduction to abstract algebra presents a breakthrough approach to teaching one of math s most intimidating concepts avoiding the pitfalls common in the standard textbooks benjamin fine anthony m gaglione and gerhard rosenberger set a pace that allows beginner level students to follow the progression from familiar topics such as rings numbers and groups to more difficult concepts classroom tested and revised until students achieved consistent positive results this textbook is designed to keep students focused as they learn complex topics fine gaglione and rosenberger s clear explanations prevent students from getting lost as they move deeper and deeper into areas such as abelian groups fields and galois theory this textbook will help bring about the day when abstract algebra no longer creates intense anxiety but instead challenges students to fully grasp the meaning and power of the approach topics covered include rings integral domains the fundamental theorem of arithmetic fields groups lagrange s theorem isomorphism theorems for groups fundamental theorem of finite abelian groups the simplicity of an for n5 sylow theorems the jordan hölder theorem ring isomorphism theorems euclidean domains principal ideal domains the fundamental theorem of algebra vector spaces algebras field extensions algebraic and transcendental the fundamental theorem of galois theory the insolvability of the quintic

fundamentals of abstract algebra is a primary textbook for a one year first course in abstract algebra but it has much more to offer besides this the book is full of opportunities for further deeper reading including explorations of interesting applications and more advanced topics such as galois theory replete with exercises and examples the book is geared towards careful pedagogy and accessibility and requires only minimal prerequisites the book includes a primer on some basic mathematical concepts that will be useful for readers to understand and in this sense the book is self contained features self contained treatments of all topics everything required for a one year first course in abstract algebra and could also be used as supplementary reading for a second course copious exercises and examples mark debonis received his phd in mathematics from the university of california irvine usa he began his career as a theoretical mathematician in the field of group theory and model theory but in later years switched to applied mathematics in particular to machine learning he spent some time working for the us department of energy at los alamos national lab as well as the us department of defense at the defense intelligence agency both as an applied mathematician of machine learning he held a position as associate professor of mathematics at manhattan college in new york city but later left to pursue research working for the us department of energy at sandia national laboratory as a principal data analyst his research interests include machine learning statistics and computational algebra

the purpose of this book is to prepare the reader for coping with abstract mathematics the intended audience is both students taking a first course in abstract algebra who feel the need to strengthen their background and those from a more applied background who need some experience in dealing with

abstract ideas learning any area of abstract mathematics requires not only ability to write formally but also to think intuitively about what is going on and to describe that process clearly and cogently in ordinary english ash tries to aid intuition by keeping proofs short and as informal as possible and using concrete examples as illustration thus it is an ideal textbook for an audience with limited experience in formalism and abstraction a number of expository innovations are included for example an informal development of set theory which teaches students all the basic results for algebra in one chapter

introduction to abstract algebra provides insight into the methods of abstract algebra this book provides information pertinent to the fundamental concepts of abstract algebra organized into five chapters this book begins with an overview of the study of natural numbers that are used historically for the purpose of counting the objects in different assemblages this text then examines the concepts of set and elements of a set other chapters contain an intuitive survey of the different kinds of real numbers with the inclusion of many very important results on integers this book presents as well a brief survey of algebraic systems from the trivial sets to the more highly structures groups with emphasis on the elementary properties of groups the final chapter deals with the simple development of complex numbers this book is intended to be suitable for students in abstract 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 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

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

abstract theory remains an indispensable foundation for the study of concrete cases it shows what the general picture should look like and provides results that are useful again and again despite this however there are few if any introductory texts that present a unified picture of the general abstract theory a course in abstract harmonic analysis offers a concise readable introduction to fourier analysis on groups and unitary representation theory after a brief review of the relevant parts of banach algebra theory and spectral theory the book proceeds to the basic facts about locally compact groups haar measure and unitary representations including the gelfand raikov existence theorem the author devotes two chapters to analysis on abelian groups and compact groups then explores induced representations featuring the imprimitivity theorem and its applications the book concludes with an informal discussion of some further aspects of the representation theory of non compact non abelian groups

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this print textbook is available for students to rent for their classes the pearson print rental program provides students with affordable access to learning materials so they come to class ready to succeed for courses in abstract algebra a comprehensive approach to abstract algebra a first course in abstract algebra 8th edition retains its hallmark goal of covering all the topics needed for an in depth introduction to abstract algebra and is designed to be relevant to future graduate students future high school teachers and students who intend to work in industry new co author neal brand has revised this classic text carefully and thoughtfully drawing on years of experience teaching the course with this text to produce a meaningful and worthwhile update this in depth introduction gives students a firm foundation for more specialized work in algebra by including extensive explanations of the what the how and the why behind each method the authors choose this revision also includes applied topics such as rsa encryption and coding theory as well as examples of applying gröbner bases 0136731627 9780136731627 a first course in abstract algebra rental edition 8 e

since abstract algebra is so important to the study of advanced mathematics it is critical that students have a firm grasp of its principles and underlying theories before moving on to further study to accomplish this they require a concise accessible user friendly textbook that is both challenging and stimulating a first graduate course in abstract algebra is just such a textbook divided into two sections this book covers both the standard topics groups modules rings and vector spaces associated with abstract algebra and more advanced topics such as galois fields noncommutative rings group extensions and abelian groups the author includes review material where needed instead of in a single chapter giving convenient access with minimal page turning he also provides ample examples exercises and problem sets to reinforce the material this book illustrates the theory of finitely generated modules over principal ideal domains discusses tensor products and demonstrates the development of determinants it also covers sylow theory and jordan canonical form a first graduate course in abstract algebra is ideal for a two semester course providing enough examples problems and exercises for a deep understanding

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