A First Course In Abstract Algebra 5th Edition

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First Graduate Course in Abstract Algebra A Course In Abstract Algebra, 3E A Primer of Abstract Mathematics First Course in Abstract Algebra Course in abstract algebra Introduction to Abstract Algebra A First Course in Abstract Algebra [rental Edition] A First Course in Abstract Algebra

John B. Fraleigh Joseph J. Rotman V.K. Khanna & S.K Bhamri Hiram Paley Minking Eie Khanna V.K. & Bhamri S.K Joseph J. Rotman V. K. Khanna Philip J. Higgins Benjamin Fine Mark J. DeBonis John Blackmon Fraleigh W.J. Wickless Vijay K. Khanna Robert B. Ash Richard E. Johnson J. Strother Moore John B Fraleigh Marlow Anderson

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

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

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

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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 h□lder 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

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 each of the final three chapters is logically independent and can be covered in any order perfect for a customized syllabus

designed for undergraduate and post graduate 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 o

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

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 gr bner bases 0136731627 9780136731627 a first course in abstract algebra rental edition 8 e

like its popular predecessors this text develops ring theory first by drawing on students familiarity with integers and polynomials this unique approach motivates students in studying abstract algebra and helps them understand the power of abstraction this edition makes it easier to teach unique factorization as an optional topic and reorganizes the core material on rings integral domains and fields along with new exercises on galois theory it also includes a more detailed treatment of permutations as well as new chapters on sylow theorems

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