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the new sixth edition of modern algebra has two main goals to introduce the most important kinds of algebraic structures and to help students improve their ability to understand and work with abstract ideas the first six chapters present the core of the subject the remainder are designed to be as flexible as possible the text covers groups before rings which is a matter of personal preference for instructors modern algebra 6e is appropriate for any one semester junior senior level course in modern algebra abstract algebra algebraic structures or groups rings and fields the course is mostly comprised of mathematics majors but engineering and computer science majors may also take it as well

this book presents an introduction to modern abstract algebra covering the basic ideas of groups rings and fields the first part of the book treats ideas that are important but neither abstract nor complicated and provides practice in handling mathematical statements their meaning quantification

negation and proof this edition features a new section to give more substance to the introduction to galois theory updated lists of references and discussions of topics such as fermat s last theorem and the finite simple groups mappings and operations introduction to groups equivalence congruence divisibility groups group homomorphisms introduction to rings the familiar number systems polynomials quotient rings field extensions galois theory geometric constructions applications of permutation groups symmetry cryptography and algebraic coding lattices and boolean algebras

this book is designed as a text for the first year of graduate algebra but it can also serve as a reference since it contains more advanced topics as well this second edition has a different organization than the first it begins with a discussion of the cubic and quartic equations which leads into permutations group theory and galois theory for finite extensions infinite galois theory is discussed later in the book the study of groups continues with finite abelian groups finitely generated groups are discussed later in the context of module theory sylow theorems simplicity of projective unimodular groups free groups and presentations and the nielsen schreier theorem subgroups of free groups are free the study of commutative rings continues with prime and maximal ideals unique factorization noetherian rings zorn s lemma and applications varieties and gr obner bases next noncommutative rings and modules are discussed treating tensor product projective injective and flat modules categories functors and natural transformations categorical constructions including direct and inverse limits and adjoint functors then follow group representations wedderburn artin theorems character theory theorems of burnside and frobenius division rings brauer groups and abelian categories advanced linear algebra treats canonical forms for matrices and the structure of modules over pids followed by multilinear algebra homology is introduced first for simplicial complexes then as derived functors with applications to ext tor and cohomology of groups crossed products and an introduction to algebraic k theory finally the author treats localization dedekind rings and algebraic number theory and homological dimensions the book ends with the proof that regular local rings have unique factorization publisher s description

for more than thirty years modern algebra has served the student community as a textbook for introductory courses on the subject the book starts from set theory and covers an advanced course in group theory and ring theory a detailed study of field theo

praise for the first edition stahl offers the solvability of equations from the historical point of view one of the best books available to support a one semester introduction to abstract algebra choice introductory modern algebra a historical approach second edition presents the evolution of algebra and provides readers with the opportunity to view modern algebra as a consistent movement from concrete problems to abstract principles with a few pertinent excerpts from the writings of some of the greatest mathematicians the second edition uniquely facilitates the understanding of pivotal algebraic ideas the author provides a clear precise and accessible introduction to modern algebra and also helps to develop a more immediate and well grounded understanding of how equations lead to permutation groups and what those groups can inform us about such diverse items as multivariate functions and the 15 puzzle featuring new sections on topics such as group homomorphisms the rsa algorithm complex conjugation the

factorization of real polynomials and the fundamental theorem of algebra the second edition also includes an in depth explanation of the principles and practices of modern algebra in terms of the historical development from the renaissance solution of the cubic equation to dedekind s ideals historical discussions integrated with the development of modern and abstract algebra in addition to many new explicit statements of theorems definitions and terminology a new appendix on logic and proofs sets functions and equivalence relations over 1 000 new examples and multi level exercises at the end of each section and chapter as well as updated chapter summaries introductory modern algebra a historical approach second edition is an excellent textbook for upper undergraduate courses in modern and abstract algebra

the purpose of this book is to provide a concise yet detailed account of fundamental concepts in modern algebra the target audience for this book is first year graduate students in mathematics though the first two chapters are probably accessible to well prepared undergraduates the book covers a broad range of topics in modern algebra and includes chapters on groups rings modules algebraic extension fields and finite fields each chapter begins with an overview which provides a road map for the reader showing what material will be covered at the end of each chapter we collect exercises which review and reinforce the material in the corresponding sections these exercises range from straightforward applications of the material to problems designed to challenge the reader we also include a list of questions for further study which pose problems suitable for master s degree research projects

standard text provides an exceptionally comprehensive treatment of every aspect of modern algebra explores algebraic structures rings and fields vector spaces polynomials linear operators much more over 1 300 exercises 1965 edition

the book provides an introduction to modern abstract algebra and its applications it covers all major topics of classical theory of numbers groups rings fields and finite dimensional algebras the book also provides interesting and important modern applications in such subjects as cryptography coding theory computer science and physics in particular it considers algorithm rsa secret sharing algorithms diffie hellman scheme and elgamal cryptosystem based on discrete logarithm problem it also presents buchberger s algorithm which is one of the important algorithms for constructing gröbner basis key features covers all major topics of classical theory of modern abstract algebra such as groups rings and fields and their applications in addition it provides the introduction to the number theory theory of finite fields finite dimensional algebras and their applications provides interesting and important modern applications in such subjects as cryptography coding theory computer science and physics presents numerous examples illustrating the theory and applications it is also filled with a number of exercises of various difficulty describes in detail the construction of the cayley dickson construction for finite dimensional algebras in particular algebras of quaternions and octonions and gives their applications in the number theory and computer graphics

praise for the first edition this book is clearly written and presents a large number ofexamples illustrating the theory there is no other book ofcomparable content available because of its detailed coverage ofapplications generally neglected in the literature it is adesirable if not essential addition to undergraduate mathematicsand computer science libraries choice as a cornerstone of mathematical science the importance ofmodern algebra and discrete structures to many areas of science andtechnology is apparent and growing with extensive use incomputing science physics chemistry and data communications aswell as in areas of mathematics such as combinatorics blending the theoretical with the practical in the instructionof modern algebra modern algebra with applications second editionprovides interesting and important applications of thissubject effectively holding your interest and creating a moreseamless method of instruction incorporating the applications of modern algebra throughout itsauthoritative treatment of the subject this book covers the fullcomplement of group ring and field theory typically contained ina standard modern algebra course numerous examples are included ineach chapter and answers to odd numbered exercises are appended inthe back of the text chapter topics include boolean algebras polynomial and euclidean rings groups quotient rings quotient groups field extensions symmetry groups in three dimensions latin squares pólya burnside method of enumeration geometrical constructions monoids and machines error correcting codes rings and fields in addition to improvements in exposition this fully updatedsecond edition also contains new material on order of an elementand cyclic groups more details about the lattice of divisors of aninteger and new historical notes filled with in depth insights and over 600 exercises of varyingdifficulty modern algebra with applications second edition canhelp anyone appreciate and understand this subject

the book starts from set theory and covers an advanced course in group theory and ring theory a detailed study of field theory and its application to geometry is undertaken after a brief and concise account of vector spaces and linear transformations one of the chapters discusses rings with chain conditions and hilbert s basis theorem the book is replete with solved examples to provide ample opportunity to students to comprehend the subject

this classic work is now available in an unabridged paperback edition hilton and wu s unique approach brings the reader from the elements of linear algebra past the frontier of homological algebra they describe a number of different algebraic domains then emphasize the similarities and differences between them employing the terminology of categories and functors exposition begins with set theory and group theory and continues with coverage categories functors natural transformations and duality and closes with discussion of the two most fundamental derived functors of homological algebra ext and tor

the book describes two stages in the historical development of the notion of mathematical structures first it traces its rise in the context of algebra from the mid nineteenth century to its consolidation by 1930 and then it considers several attempts to formulate elaborate theories after 1930 aimed at elucidating from a purely mathematical perspective the precise meaning of this idea first published in the series science networks historical studies vol 17 1996 in the second rev edition the author has eliminated misprints revised the chapter on richard dedekind and updated the bibliographical

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Introduction

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