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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

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covering the main fields of mathematics this handbook focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology the authors describe formulas methods equations and solutions that are frequently used in scientific and engineering applications and present classical as well as newer solution methods for various mathematical equations the book supplies numerous examples graphs figures and diagrams and contains many results in tabular form including finite sums and series and exact solutions of differential integral and functional equations

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linear algebra is something all mathematics undergraduates and many other students in subjects ranging from engineering to economics have to learn the fifth edition of this hugely successful textbook retains all the qualities of earlier editions while at the same time seeing numerous minor

improvements and major additions the latter include a new chapter on singular values and singular vectors including ways to analyze a matrix of data a revised chapter on computing in linear algebra with professional level algorithms and code that can be downloaded for a variety of languages a new section on linear algebra and cryptography a new chapter on linear algebra in probability and statistics a dedicated and active website also offers solutions to exercises as well as new exercises from many different sources including practice problems exams and development of textbook examples plus codes in matlab julia and python

mastering algebra is a comprehensive and student friendly exploration of fundamental principles and advanced applications of algebra tailored specifically for undergraduate students we provide a valuable resource for those seeking to deepen their understanding of algebraic theory and its diverse range of applications across various disciplines our book starts with foundational concepts such as algebraic manipulation equation solving and functions it then progresses to more advanced topics including linear algebra abstract algebra and algebraic geometry offering a seamless transition from basic to advanced algebraic theory what sets this book apart is its emphasis on clarity coherence and practical relevance each chapter is meticulously crafted to provide clear explanations of complex concepts supported by illustrative examples and thought provoking exercises that encourage active learning and critical thinking furthermore mastering algebra highlights the practical applications of algebra in fields such as physics computer science engineering and economics demonstrating its importance and versatility in solving real world problems whether you are a mathematics major looking to deepen your understanding of algebraic theory or a student from another discipline seeking to strengthen your quantitative skills this book is your essential companion on the journey to mastering algebra prepare to embark on an enriching intellectual adventure that will empower you to unlock the full potential of algebraic concepts and their applications

introduction to linear algebra sixth edition is a foundation text that bridges both practical computation and theoretical principles this book s flexible table of contents makes it suitable for students majoring in science and engineering as well as students who want an introduction to mathematical abstraction and logical reasoning a to achieve this flexibility the authors focus on three principle topics matrix theory and systems of linear equations elementary vector space concepts and the eigenvalue problem this highly adaptable text is appropriate for a one quarter or one semester course at the sophomore junior level or for a more advanced class at the junior senior level

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