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the book is intended to be a bridge between introductory and advanced textbooks on linear algebra it is intended for the advanced level undergraduate and postgraduate students in mathematics and other disciplines who need a comprehensive knowledge of linear algebra the book contains detailed proofs of various results these proofs may or may not be discussed by a teacher depending upon the course being offered it also contains large number of examples and remarks

using the same innovative and proven approach that made the authors engineering mathematics a worldwide bestseller this book can be used in the classroom or as an in depth

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this clear concise and highly readable text is designed for a first course in linear algebra and is intended for undergraduate courses in mathematics it focusses throughout on geometric explanations to make the student perceive that linear algebra is nothing but analytic geometry of n dimensions from the very start linear algebra is presented as an extension of the theory of simultaneous linear equations and their geometric interpretation is shown to be a recurring theme of the subject the integration of abstract algebraic concepts with the underlying geometric notions is one of the most distinguishing features of this book designed to help students in the pursuit of multivariable calculus and differential geometry in subsequent courses explanations and concepts are logically presented in a conversational tone and well constructed writing style so that students at a variety of levels can understand the material and acquire a solid foundation in the basic skills of linear algebra

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

a hands on introduction to the theoretical and computational aspects of linear algebra using mathematica many topics in linear algebra are simple yet computationally intensive and

computer algebra systems such as mathematica are essential not only for learning to apply the concepts to computationally challenging problems but also for visualizing many of the geometric aspects within this field of study principles of linear algebra with mathematica uniquely bridges the gap between beginning linear algebra and computational linear algebra that is often encountered in applied settings and the commands required to solve complex and computationally challenging problems using mathematica are provided the book begins with an introduction to the commands and programming guidelines for working with mathematica next the authors explore linear systems of equations and matrices applications of linear systems and matrices determinants inverses and cramer s rule basic linear algebra topics such as vectors dot product cross product and vector projection are explored as well as a unique variety of more advanced topics including rotations in space rolling a circle along a curve and the tnb frame subsequent chapters feature coverage of linear transformations from \mathbb{R}^n to \mathbb{R}^m the geometry of linear and affine transformations with an exploration of their effect on arclength area and volume least squares fits and pseudoinverses mathematica is used to enhance concepts and is seamlessly integrated throughout the book through symbolic manipulations numerical computations graphics in two and three dimensions animations and programming each section concludes with standard problems in addition to problems that were specifically designed to be solved with mathematica allowing readers to test their comprehension of the presented material all related mathematica code is available on a corresponding website along with solutions to problems and additional topical resources extensively class tested to ensure an accessible presentation principles of linear algebra with mathematica is an excellent book for courses on linear algebra at the undergraduate level the book is also an ideal reference for students and professionals who would like to gain a further understanding of the use of mathematica to solve linear algebra problems

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the vector space approach to the treatment of linear algebra is useful for geometric intuition leading to transparent proofs it is also useful for generalization to infinite dimensional spaces

the indian school led by professors c r rao and s k mitra successfully employed this approach this book follows their approach and systematically develops the elementary parts of matrix theory exploiting the properties of row and column spaces of matrices developments in linear algebra have brought into focus several techniques not included in basic texts such as rank factorization generalized inverses and singular value decomposition these techniques are actually simple enough to be taught at the advanced undergraduate level when properly used they provide a better understanding of the topic and give simpler proofs making the subject more accessible to students this book explains these techniques

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this paper aims to make a valuable contribution to the field of neutrosophic determinants and their properties by utilizing neutrosophic real numbers in the form of a bi we provide an alternative approach to recent research on determinants conducted between 2020 and 2023 our goal is to expand the scope of academic content being developed in the theory of neutrosophic linear algebra additionally we seek to complement our work on some algebraic structures of neutrosophic matrices

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the revised edition of the book fills in the urgent need of a treatise on the fundamental laws

of operation with numbers so that the readers can understand points of similarity and difference between the algebra of matrices and of numbers the subject is equally important to mathematical disciplines such as geometry and modern algebra and to sciences the book provides a well rounded and complete account of important concepts of group ring field isomorphism equivalence congruence and reduction of real quadratic and hermitian forms to canonical form elementary treatment of vector spaces and linear independence and dependence of vector systems helps in discussing ranks of matrices and in formulation of results of a system of equations and characteristic vector of a matrix illustration of every idea and theorem with abundant solved examples and lucid language are the unique features of this legendary textbook it is a must read for mathematics and science students of undergraduate programmes aspirants trying for competitive examinations will also find the book equally useful

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