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elementary linear algebra applications version 12th edition gives an elementary treatment of linear algebra that is suitable for a first course

for undergraduate students the aim is to present the fundamentals of linear algebra in the clearest possible way pedagogy is the main consideration calculus is not a prerequisite but there are clearly labeled exercises and examples which can be omitted without loss of continuity for students who have studied calculus

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introductory courses in linear algebra can be taught in a variety of ways and the order of topics offered may vary based on the needs of the students linear algebra with applications alternate eighth edition provides instructors with an additional presentation of course material in this edition earlier chapters cover systems of linear equations matrices and determinants the more abstract material on vector spaces starts later in chapter 4 with the introduction of the vector space r n this leads directly into general vector spaces and linear transformations this alternate edition is especially appropriate for students preparing to apply linear equations and matrices in their own fields clear concise and comprehensive the alternate eighth edition continues to educate and enlighten students leading to a mastery of the matehmatics and an understainding of how to apply it new and key features of the alternate eighth edition updated and revised throughout with new section material and exercises included in every chapter provides students with a flexible blend of theory important numerical techniques and interesting relevant applications includes discussions of the role of linear algebra in many areas such as the operation of the google search engine and the global structure of the worldwide air transportation network a matlab manual that ties into the regular course material is included as an appendix these ideas can be implemented on any matrix algebra software package a graphing calculator manual is also

included a student solutions manual that contain solutions to selected exercises is available as a supplement an instructor complete solutions manual containing worked solutions to all exercises is also available

assuming no prior matlab experience this clear easy to read book walks readers through the ins and outs of this powerful software for technical computing generously illustrated through computer screen shots and step by step tutorials that are applied in the areas of mathematics science and engineering clearly shows how matlab is used in science and engineering

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renowned for thoroughness and accessibility this book offers a challenging and enjoyable study of linear algebra that is infused with an abundance of applications balancing coverage of mathematical theory and applied topics concepts are explained with precision so that all readers can understand the material worked examples are heavily integrated into each chapter the book stresses the important role geometry and visualization play in understanding the subject

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