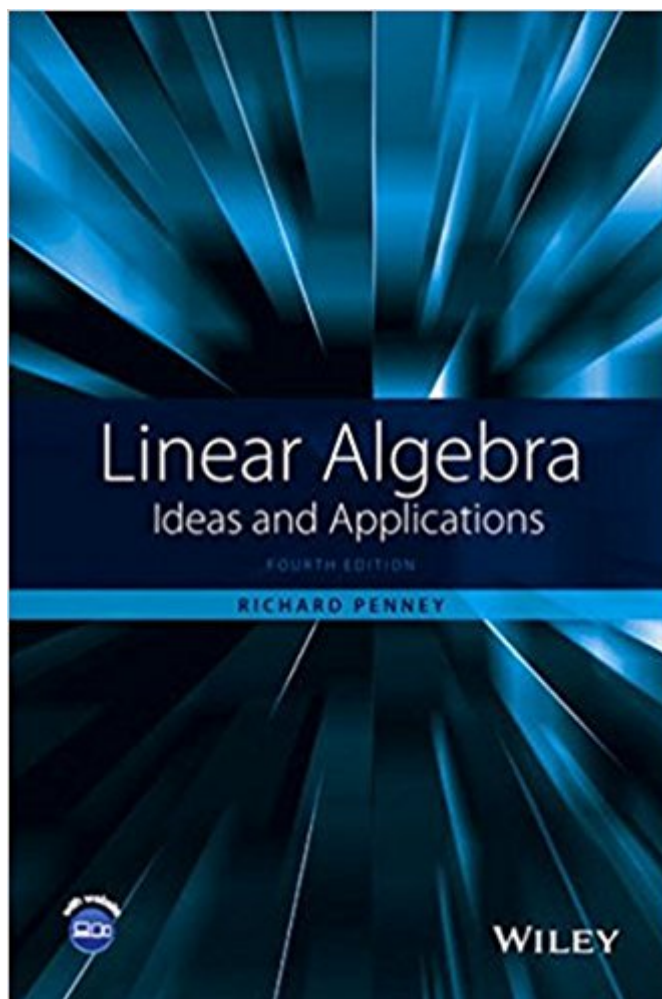


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# Linear Algebra: Ideas And Applications



## Synopsis

Praise for the Third Edition “This volume is ground-breaking in terms of mathematical texts in that it does not teach from a detached perspective, but instead, looks to show students that competent mathematicians bring an intuitive understanding to the subject rather than just a master of applications.” —Electric Review

A comprehensive introduction, *Linear Algebra: Ideas and Applications*, Fourth Edition provides a discussion of the theory and applications of linear algebra that blends abstract and computational concepts. With a focus on the development of mathematical intuition, the book emphasizes the need to understand both the applications of a particular technique and the mathematical ideas underlying the technique. The book introduces each new concept in the context of an explicit numerical example, which allows the abstract concepts to grow organically out of the necessity to solve specific problems. The intuitive discussions are consistently followed by rigorous statements of results and proofs.

*Linear Algebra: Ideas and Applications*, Fourth Edition also features:

- Two new and independent sections on the rapidly developing subject of wavelets
- A thoroughly updated section on electrical circuit theory
- Illuminating applications of linear algebra with self-study questions for additional study
- End-of-chapter summaries and sections with true-false questions to aid readers with further comprehension of the presented material
- Numerous computer exercises throughout using MATLAB® code

*Linear Algebra: Ideas and Applications*, Fourth Edition is an excellent undergraduate-level textbook for one or two semester courses for students majoring in mathematics, science, computer science, and engineering. With an emphasis on intuition development, the book is also an ideal self-study reference.

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## Customer Reviews

"The book is an excellent undergraduate-level textbook for one or two semester courses for students majoring in mathematics, science, computer science, and engineering. With an emphasis on intuition development, the book is also an ideal self-study reference." (Zentralblatt MATH 2016)" "I found this textbook very appealing, in large part due to my personal struggles finding the "perfect" text for the course. I have taught Linear Algebra using three different textbooks so far. Although each book had its strengths, none of them was quite right for the level of course and/or teaching style that I employ. What I really want is a readable, proof-inclusive but not proof-intensive, applications-driven textbook.....Another constructive addition to this text are the self-study questions that follow application topics. Recognizing that instructors likely won't have time to cover every interesting application, Penney wrote them into the text in a manner allowing for individual study. Since I live in a city with an increasing number of roundabouts, I especially enjoyed the systems of equations application using traffic patterns on page 72.....Overall, I think that this book has a lot of strengths. It seems especially useful for someone like me who wants their students to read the text more. It wouldn't necessarily be the best fit for a student population who was experienced with proving theorems, but for students who haven't made that transition it bridges the gap between computational and theoretical mathematics. I'll mention one final pro and con of the book. The con is that it is somewhat expensive, as mathematics textbooks often are. The pro is that there is a companion website with a password-protected solutions manual and figures". (Mindy Capaldi- MAA Review 15/01/17)

Praise for the Third Edition "This volume is ground-breaking in terms of mathematical texts in that it does not teach from a detached perspective, but instead, looks to show students that competent mathematicians bring an intuitive understanding to the subject rather than just a master of applications."  $\hat{A}$  • Electric Review A comprehensive introduction, Linear Algebra: Ideas and Applications, Fourth Edition provides a discussion of the theory and applications of linear algebra that blends abstract and computational concepts. With a focus on the development of mathematical intuition, the book emphasizes the need to understand both the applications of a particular technique and the mathematical ideas underlying the technique. The book introduces each new concept in the context of an explicit numerical example, which allows the abstract

concepts to grow organically out of the necessity to solve specific problems. The intuitive discussions are consistently followed by rigorous statements of results and proofs. Linear Algebra: Ideas and Applications, Fourth Edition also features: Two new and independent sections on the rapidly developing subject of wavelets A thoroughly updated section on electrical circuit theory Illuminating applications of linear algebra with self-study questions for additional study End-of-chapter summaries and sections with true-false questions to aid readers with further comprehension of the presented material Numerous computer exercises throughout using MATLAB® code A companion website with translations of the book's computer exercises into Maple™ code Linear Algebra: Ideas and Applications, Fourth Edition is an excellent undergraduate-level textbook for one or two semester undergraduate courses in mathematics, science, computer science, and engineering. With an emphasis on intuition development, the book is also an ideal self-study reference. Richard C. Penney, PhD, is Professor in the Department of Mathematics and Director of the Mathematics/Statistics Actuarial Science Program at Purdue University. He has authored numerous journal articles, received several major teaching awards, and is an active researcher.

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