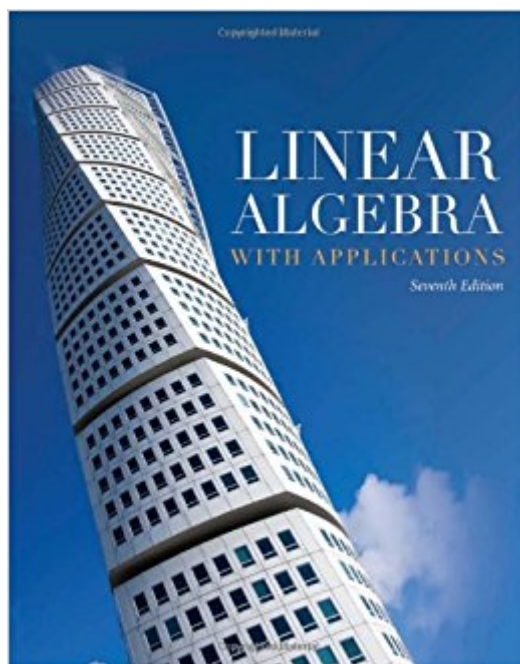


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Linear Algebra With Applications (Jones And Bartlett Publishers Series In Mathematics. Linear)



Synopsis

Revised and edited, Linear Algebra with Applications, Seventh Edition is designed for the introductory course in linear algebra and is organized into 3 natural parts. Part 1 introduces the basics, presenting systems of linear equations, vectors and subspaces of $\mathbb{R}^n$, matrices, linear transformations, determinants, and eigenvectors. Part 2 builds on this material, introducing the concept of general vector spaces, discussing properties of bases, developing the rank/nullity theorem and introducing spaces of matrices and functions. Part 3 completes the course with many of the important ideas and methods of numerical linear algebra, such as ill-conditioning, pivoting, and LU decomposition. Offering 28 core sections, the Seventh Edition successfully blends theory, important numerical techniques, and interesting applications making it ideal for engineers, scientists, and a variety of other majors.

Book Information

Series: Jones and Bartlett Publishers Series in Mathematics. Linear

Hardcover: 532 pages

Publisher: Jones & Bartlett Learning; 7 edition (December 23, 2009)

Language: English

ISBN-10: 0763782483

ISBN-13: 978-0763782481

Product Dimensions: 8.7 x 0.9 x 10.9 inches

Shipping Weight: 3.2 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars [See all reviews](#) (15 customer reviews)

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Customer Reviews

This book was not purchased for any required course, but because I wanted to gain a better understanding about linear algebra. What I was looking for was a book with clarity, conciseness, and readability and this is exactly what this book provided. I am an electrical engineer, and very rarely have I come across a book so enjoyable to read. Not even one time had I been stumbled or stuck or wonder-struck as to what the author was trying to convey or how something had been derived. Not even once! I had seen and reviewed many books on linear algebra by many authors (Strang, Poole, Anton, Myers) and was convinced that I would have had to settle for a book by one

of them. In most cases, they were either too simple and boring, or only touched on the surface, or were all over the place, or were more difficult than what I could easily take in. This book was not only the easiest to understand, it also went right to the point in just the right amount of words with easy to understand and very thorough examples to follow which would show all the steps involved - yet never feeling like an over simplified or elementary introduction to the subject and somehow keeping me so interested that I wanted to keep on reading. About the proofs, all I can say is that it felt as though they were written to be understood. I am not a mathematician by any means, and I still think they were extremely easy to follow, yet they were the real thing. But what about the applications of linear algebra? This aspect of the book just stands out from anything that I've ever seen in a book on LA. The applications chosen are highly motivating and really help you appreciate the subject, why you are learning what you are, and what amazing things can be done through it.

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