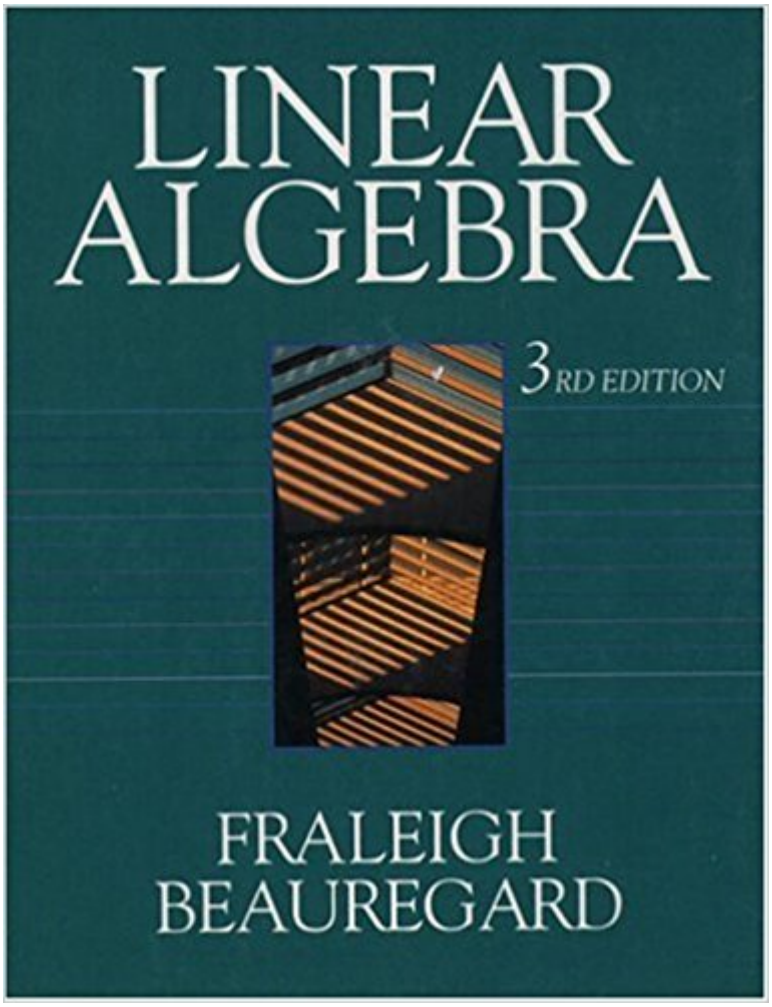
Linear Algebra, Third Edition



Synopsis

Fraleigh and Beauregard's text is known for its clear presentation and writing style, mathematical appropriateness, and overall usability. Its inclusion of calculus-related examples, true/false problems, section summaries, integrated applications, and coverage of Cn make it a superb text for the sophomore or junior-level linear algebra course. This Third Edition retains the features that have made it successful over the years, while addressing recent developments of how linear algebra is taught and learned. Key concepts are presented early on, with an emphasis on geometry. Â KEY TOPICS : Vectors, Matrices, and Linear Systems; Dimension, Rank, and Linear Transformations; Vector Spaces; Determinants; Eigenvalues and Eigenvectors; Orthogonality; Change of Basis; Eigenvalues: Further Applications and Computations; Complex Scalars; Solving Large Linear Systems Â MARKET: For all readers interested in linear algebra.

Book Information

Paperback: 595 pages
Publisher: Addison-Wesley Publishing Company; 3rd edition (January 10, 1995)
Language: English
ISBN-10: 0201526751
ISBN-13: 978-0201526752
Product Dimensions: 7.2 x 1.5 x 9.1 inches
Shipping Weight: 2.4 pounds (View shipping rates and policies)
Average Customer Review: 3.3 out of 5 stars 32 customer reviews
Best Sellers Rank: #81,459 in Books (See Top 100 in Books) #55 inÂ Books > Science & Math > Mathematics > Pure Mathematics > Algebra > Linear #427 inÂ Books > Textbooks > Science & Mathematics > Mathematics > Algebra & Trigonometry

Customer Reviews

Starting w/ Section 1.5 the some of the problems are too abstract to figure out how to solve the problems. Starting with Section 1.6 the content is confusing in more than one part, along with the problem set. The text seems to be written for a graduate course, or for someone with lots of experience working with Linear Algebra. I took a Linear Algebra course twenty-three years ago at the University of Washington, and it was easy to make a grade of A-. But this course is hard to even pass with this textbook.

Simple explanations have made learning this difficult subject easier.

If this book were addressed to experts in mathematics and linear algebra, it would probably be an excellent outline of the topic. It is chalk-full of proofs, proofs of proofs, and vague assumptions which are later proven.But, to the best of my knowledge, this claims to be targeted toward students... not teachers. In that respect, it is deplorable. No student could ever possibly use this textbook to better his knowledge of linear algebra.It explains NOTHING. I’m not kidding. If there exists a topic that needs to be explained or elaborated on, the student must do it himself. In fact, that’s what most of the problems are: "explain this concept you don’t understand."And may God have mercy on you if the book renames a concept so that Google can no longer provide an explanation, because then you are truly doomed.If you find your professor is using this book for your math class, then now is a good time to start believing in God, or Mars or Baal or Moloch, or whoever you think is going to help you, because trust me, you’re going to need all the help you can get, and it won’t come from this book.

The book is little bit worn, but usable. Other things are perfect.

I wont recommend this textbook for an introductory linear algebra course. It is difficult to understand the concepts when it is so poorly written.

Was exactly what was described.

Everything was great

First off, I am a student that "just didn’t get it" in linear algebra. It takes a lot for me to understand proofs and the different notation that is used in linear algebra. Any textbook can explain the basic arithmetic involved in linear algebra, but a well-written book is required for topics such as subspaces, vector spaces, linear transformations, and Eigenvalues/Eigenvectors.For the more difficult topics, the explanations in the book left me extremely confused. The confusion begins with chapter 2, section 3 (linear transformations) and goes from there. In chapter 3 (vector spaces), the use of mathematical symbols increases to the point where symbols are used to form complete sentences. I get that mathematicians are comfortable with learning the material this way, but I am confused enough as it is without having to look up what every symbol means. For example, instead of using the "backwards E," in a sentence, why not just say, "there exists"? Mathematicians would

frown on me for the statement I just made, but most of the people who are taking linear algebra need it as a requirement for their respective engineering program. Therefore, why not go light on the symbol usage and heavy on thorough explanation of the concepts?I go to Green River CC and am aware that Steven Black recommends this textbook. In fact, I heard that he LOVES it. I speculate that the reason why he likes it is so that students will drool over his notes after suffering through reading sections in this book. I am sure that any instructor who has been through linear algebra (and has had to do a fair amount of complicated proofs) would love this book because the few, emphasis on few, examples that are provided in each section are done in an "elegant" manner. But the average pre-engineering student whose first experience in linear algebra is taking one class at the university will probably think differently about this book.If you have to endure using this book for your class, I would recommend getting Falvo's Elementary Linear Algebra textbook as a supplement... replacement, actually, for your study of linear algebra. The examples and problems in this book are at the same level of difficulty/rigor as Beauregard's book.As a side note, I want to be fair about this book. It is from 1995! I am aware that there are GOOD textbooks from 18+ years ago, but this one has not stood the test of time. Although most current linear algebra textbooks are still notorious for being very poorly written/presented, there ARE a few books out there that are magnitudes better than Beauregard's book.(Two stars for the explanations on topics in chapter 1, and I'm sorry if I come across as a poor writer. It is not my strong suit, just thought I'd get my opinion out there for fellow engineering students, or students in general who were confused with this book)Recommended Text: (you can find an Int'l edition way cheaper on DealOz)Elementary Linear Algebra, Enhanced Edition (with Enhanced WebAssign 1-Semester Printed Access Card) (Available 2010 Titles Enhanced Web Assign)

(5th Edition) Linear Algebra and Its Applications, 4th Edition Differential Equations and Linear Algebra (4th Edition) Differential Equations and Linear Algebra (3rd Edition) Differential Equations and Linear Algebra (2nd Edition) Differential Equations and Linear Algebra (Classic Version) (2nd Edition) (Pearson Modern Classics for Advanced Mathematics Series) Linear Algebra with Applications, 5th Edition Elementary Linear Algebra with Applications (9th Edition) Introduction to Linear Algebra, Fifth Edition Introduction to Linear Algebra (5th Edition) Introduction to Linear Algebra, Fourth Edition