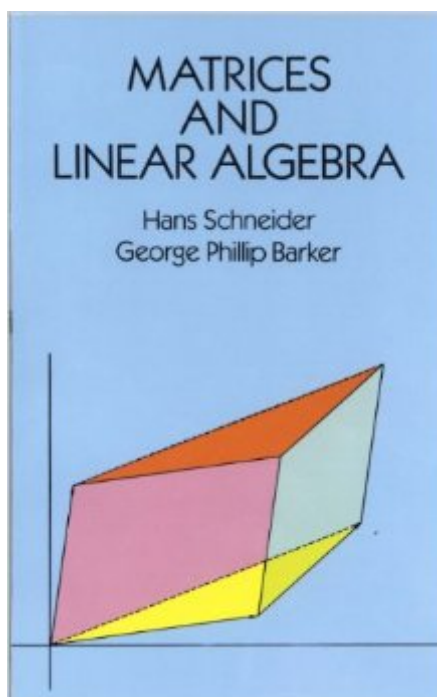


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Matrices And Linear Algebra (Dover Books On Mathematics)



Synopsis

Linear algebra is one of the central disciplines in mathematics. A student of pure mathematics must know linear algebra if he is to continue with modern algebra or functional analysis. Much of the mathematics now taught to engineers and physicists requires it. This well-known and highly regarded text makes the subject accessible to undergraduates with little mathematical experience. Written mainly for students in physics, engineering, economics, and other fields outside mathematics, the book gives the theory of matrices and applications to systems of linear equations, as well as many related topics such as determinants, eigenvalues, and differential equations.

Table of Contents:

1. The Algebra of Matrices
2. Linear Equations
3. Vector Spaces
4. Determinants
5. Linear Transformations
6. Eigenvalues and Eigenvectors
7. Inner Product Spaces
8. Applications to Differential Equations

For the second edition, the authors added several exercises in each chapter and a brand new section in Chapter 7. The exercises, which are both true-false and multiple-choice, will enable the student to test his grasp of the definitions and theorems in the chapter. The new section in Chapter 7 illustrates the geometric content of Sylvester's Theorem by means of conic sections and quadric surfaces. 6 line drawings. Index. Two prefaces. Answer section.

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Customer Reviews

This book is a bargain! Do a search on linear algebra and see what comes up; then look at the prices! This book is a well written exposition of the usual topics one finds in the typical introduction to linear algebra textbook...except at 10% of the price. That in itself is a serious motivation to consider this book -> saving \$90 on a book is not to be sneezed at. OK the book is a do-over...that means it's concise, compact, nothing fancy and not overly modern...but that's ok. When you're dealing with the fundamentals you don't have to be at the cutting edge. But what you must have is a strong, confusion free understanding of these fundamentals. And this book delivers. The proofs are simple and straightforward for the most part (if not terribly expansive) and you should be able to follow them. There are solutions (not worked) for many of the exercises in the book (calculations type questions, not proofs however). The content can be seen by using the looking inside the book feature. I have both elementary algebra by Howard Anton and this book, and truth be told, I can't see why the price is so different. Anton doesn't give you that much more. I would suggest however that you purchase this as a supplement to your class text (if your lecturer sets work from it), however if you want to do some self-study or brush-up then this little book is perfect (easy to carry too!) In fact for this book and the linear algebra problem solver (isbn 0878915184), you're looking at \$33.50 and between them they cover a large amount of linear algebra. And you're still \$82 dollars ahead of Elementary Linear algebra (isbn 0471170550) by Anton! So, in all, an excellent, well-written little book. Fantastic price.

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