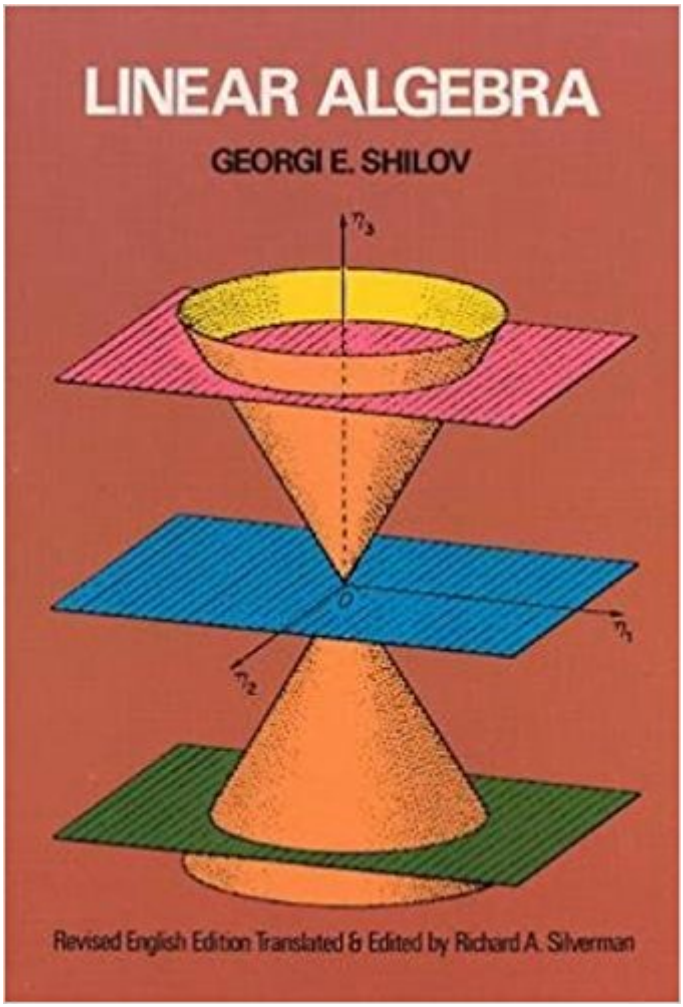
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Linear Algebra (Dover Books On Mathematics)



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Synopsis

In this volume in his exceptional series of translations of Russian mathematical texts, Richard Silverman has taken Shilov's course in linear algebra and has made it even more accessible and more useful for English language readers.Georgi E. Shilov, Professor of Mathematics at the Moscow State University, covers determinants, linear spaces, systems of linear equations, linear functions of a vector argument, coordinate transformations, the canonical form of the matrix of a linear operator, bilinear and quadratic forms, Euclidean spaces, unitary spaces, quadratic forms in Euclidean and unitary spaces, finite-dimensional algebras and their representations, with an appendix on categories of finite-dimensional spaces.The author begins with elementary material and goes easily into the advanced areas, covering all the standard topics of an advanced undergraduate or beginning graduate course. The material is presented in a consistently clear style. Problems are included, with a full section of hints and answers in the back.Keeping in mind the unity of algebra, geometry and analysis in his approach, and writing practically for the studentÃ Â who needs to learn techniques, Professor Shilov has produced one of the best expositions on the subject. Because it contains an abundance of problems and examples, the book will be useful for self-study as well as for the classroom.

Book Information

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Customer Reviews

Text: English, Russian (translation)

I am an engineering student who found the need to really learn Linear Algebra in order to move forward in my studies in stochastics and systems. This book is pretty awesome. Despite its proof/theory feel that math books always have, with patience this book reads very smoothly. It's actually helping me become more comfortable reading this type of literature.It may be helpful if you have experience with using matrices in Robotics or Statistics. I say this because to many people some concepts are hard to appreciate without seeing its implications, and understanding implications help you read these kinds of things much more easily.There were some typos that may be critical parts of equations, but if you read the text it should be clear what the book is saying.

Great text on the subject! Emphasis on proofs. Very interesting and explainable covering of determinants. The explanation is so vivid, that when you go into the advanced coverage, you simply feel solid and confident. The entire book has a highly smooth structure.

Great textbook, unfortunately the extremely small font size on bleeding paper makes it hard to read. Otherwise would have given this great textbook an easy 5 stars.

Great refresher for all the stuff I had forgotten. This is well-enough written and the subject matter is simple enough that it could even help a novice.

Simple,useful tool for a student.Formally correct and elegant as to demonstrations

AAA+

It's a excelent book

When I first picked up this book, with a small mathematical background, it was tedious and overbearing because of the complex and generalized notation. While going through my Linear Algebra course I would periodically look back in the book and much more of it makes sense. As I near the end of my summer course, this book reads much easier than my textbook, and I have been able to get a stronger grasp of this branch of mathematics. I highly recommend this book for anyone taking a linear algebra course, especially one that is much more rigorous in theory. This book is becoming a godsend as my final exam nears. I look forward to purchasing more books from dover.

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