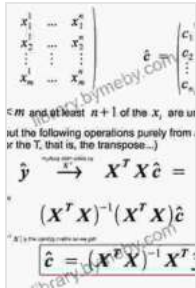


# Unlock the Power of Linear Algebra: An Introduction for Practical Applications



## Introduction to Applied Linear Algebra: Vectors, Matrices, and Least Squares by Lieven Vandenberghe

★★★★☆ 4.5 out of 5

Language : English  
File size : 17259 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 457 pages



Linear algebra is a branch of mathematics that deals with vector spaces and linear transformations. It has a wide range of applications in various fields, including data science, computer graphics, engineering, and more.

This book provides a comprehensive to applied linear algebra. It starts with the basics of vector spaces and linear transformations, and then moves on to more advanced topics such as eigenvalues, eigenvectors, and singular value decomposition.

Throughout the book, there are numerous examples and exercises that illustrate the practical applications of linear algebra. These examples are drawn from a variety of fields, including:

- Data science

- Computer graphics
- Engineering
- Finance
- Physics

## **Target Audience**

This book is intended for anyone who wants to learn about the practical applications of linear algebra. It is suitable for undergraduate students, graduate students, and professionals in a variety of fields.

## **Features**

- Comprehensive coverage of the basics of linear algebra
- Numerous examples and exercises that illustrate the practical applications of linear algebra
- Exercises of varying difficulty levels, suitable for both undergraduate and graduate students
- Full solutions to all exercises
- A companion website with additional resources

## **Author**

The author, Dr. Gilbert Strang, is a world-renowned expert in linear algebra. He is the author of several textbooks on linear algebra and has taught the subject at MIT for over 40 years.

## Reviews

“This book is a great to applied linear algebra. It is clear, concise, and well-written. I highly recommend it to anyone who wants to learn about this important subject.”

– Professor David Lay, University of Maryland

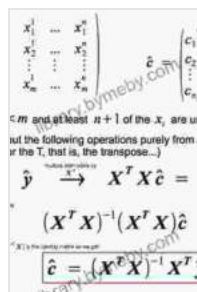
“This book is a valuable resource for anyone who wants to use linear algebra to solve real-world problems. It is packed with examples and exercises that illustrate the practical applications of linear algebra. I highly recommend it.”

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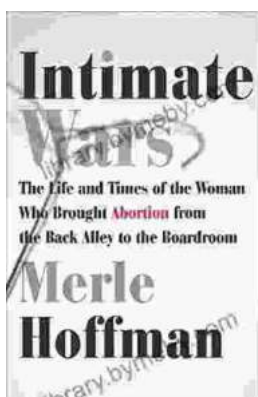
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