



Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications)

By Mark S. Gockenbach

Download now

Read Online ➔

Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) By Mark S. Gockenbach

Linear algebra forms the basis for much of modern mathematics—theoretical, applied, and computational. **Finite-Dimensional Linear Algebra** provides a solid foundation for the study of advanced mathematics and discusses applications of linear algebra to such diverse areas as combinatorics, differential equations, optimization, and approximation.

The author begins with an overview of the essential themes of the book: linear equations, best approximation, and diagonalization. He then takes students through an axiomatic development of vector spaces, linear operators, eigenvalues, norms, and inner products. In addition to discussing the special properties of symmetric matrices, he covers the Jordan canonical form, an important theoretical tool, and the singular value decomposition, a powerful tool for computation. The final chapters present introductions to numerical linear algebra and analysis in vector spaces, including a brief introduction to functional analysis (infinite-dimensional linear algebra).

Drawing on material from the author's own course, this textbook gives students a strong theoretical understanding of linear algebra. It offers many illustrations of how linear algebra is used throughout mathematics.

 [Download Finite-Dimensional Linear Algebra \(Discrete Mathem ...pdf](#)

 [Read Online Finite-Dimensional Linear Algebra \(Discrete Math ...pdf](#)

Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications)

By Mark S. Gockenbach

Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) By Mark S. Gockenbach

Linear algebra forms the basis for much of modern mathematics—theoretical, applied, and computational. **Finite-Dimensional Linear Algebra** provides a solid foundation for the study of advanced mathematics and discusses applications of linear algebra to such diverse areas as combinatorics, differential equations, optimization, and approximation.

The author begins with an overview of the essential themes of the book: linear equations, best approximation, and diagonalization. He then takes students through an axiomatic development of vector spaces, linear operators, eigenvalues, norms, and inner products. In addition to discussing the special properties of symmetric matrices, he covers the Jordan canonical form, an important theoretical tool, and the singular value decomposition, a powerful tool for computation. The final chapters present introductions to numerical linear algebra and analysis in vector spaces, including a brief introduction to functional analysis (infinite-dimensional linear algebra).

Drawing on material from the author's own course, this textbook gives students a strong theoretical understanding of linear algebra. It offers many illustrations of how linear algebra is used throughout mathematics.

Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) By Mark S. Gockenbach
Bibliography

- Rank: #2537268 in eBooks
- Published on: 2010-05-06
- Released on: 2010-05-06
- Format: Kindle eBook

 [Download Finite-Dimensional Linear Algebra \(Discrete Mathem ...pdf](#)

 [Read Online](#) Finite-Dimensional Linear Algebra (Discrete Math ...pdf

Download and Read Free Online Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) By Mark S. Gockenbach

Editorial Review

About the Author

Mark S. Gockenbach is a professor and chair of the Department of Mathematical Sciences at Michigan Technological University.

Users Review

From reader reviews:

Benjamin Holmes:

What do you concentrate on book? It is just for students because they're still students or that for all people in the world, the particular best subject for that? Simply you can be answered for that concern above. Every person has various personality and hobby for each and every other. Don't to be pushed someone or something that they don't wish do that. You must know how great and important the book Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications). All type of book can you see on many sources. You can look for the internet methods or other social media.

Pauline Stern:

This Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) book is not really ordinary book, you have it then the world is in your hands. The benefit you receive by reading this book is actually information inside this reserve incredible fresh, you will get data which is getting deeper anyone read a lot of information you will get. This specific Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) without we comprehend teach the one who reading it become critical in pondering and analyzing. Don't always be worry Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) can bring once you are and not make your carrier space or bookshelves' turn into full because you can have it in your lovely laptop even phone. This Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) having very good arrangement in word along with layout, so you will not really feel uninterested in reading.

Jack Morgan:

Reading a e-book can be one of a lot of exercise that everyone in the world loves. Do you like reading book therefore. There are a lot of reasons why people love it. First reading a guide will give you a lot of new data. When you read a guide you will get new information because book is one of a number of ways to share the information or even their idea. Second, looking at a book will make an individual more imaginative. When you studying a book especially tale fantasy book the author will bring you to definitely imagine the story how the character types do it anything. Third, you may share your knowledge to other folks. When you read this Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications), you can tells your

family, friends and soon about yours guide. Your knowledge can inspire the mediocre, make them reading a reserve.

Shane Dagostino:

Many people spending their moment by playing outside using friends, fun activity together with family or just watching TV all day every day. You can have new activity to invest your whole day by looking at a book. Ugh, you think reading a book can definitely hard because you have to accept the book everywhere? It ok you can have the e-book, bringing everywhere you want in your Smartphone. Like Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) which is obtaining the e-book version. So , why not try out this book? Let's find.

**Download and Read Online Finite-Dimensional Linear Algebra
(Discrete Mathematics and Its Applications) By Mark S.
Gockenbach #5VNT4QEICA0**

Read Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) By Mark S. Gockenbach for online ebook

Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) By Mark S. Gockenbach
Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) By Mark S. Gockenbach books to read online.

Online Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) By Mark S. Gockenbach ebook PDF download

Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) By Mark S. Gockenbach Doc

Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) By Mark S. Gockenbach Mobipocket

Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) By Mark S. Gockenbach EPub

5VNT4QEICA0: Finite-Dimensional Linear Algebra (Discrete Mathematics and Its Applications) By Mark S. Gockenbach