



Elementary Linear Algebra, Fifth Edition

By Stephen Andrilli, David Hecker

Download now

Read Online ➔

Elementary Linear Algebra, Fifth Edition By Stephen Andrilli, David Hecker

Elementary Linear Algebra, 5th edition, by Stephen Andrilli and David Hecker, is a textbook for a beginning course in linear algebra for sophomore or junior mathematics majors. This text provides a solid introduction to both the computational and theoretical aspects of linear algebra. The textbook covers many important real-world applications of linear algebra, including graph theory, circuit theory, Markov chains, elementary coding theory, least-squares polynomials and least-squares solutions for inconsistent systems, differential equations, computer graphics and quadratic forms. Also, many computational techniques in linear algebra are presented, including iterative methods for solving linear systems, **LDU** Decomposition, the Power Method for finding eigenvalues, **QR** Decomposition, and Singular Value Decomposition and its usefulness in digital imaging.

The most unique feature of the text is that students are nurtured in the art of creating mathematical proofs using linear algebra as the underlying context. The text contains a large number of worked out examples, as well as more than 970 exercises (with over 2600 total questions) to give students practice in both the computational aspects of the course and in developing their proof-writing abilities. Every section of the text ends with a series of true/false questions carefully designed to test the students' understanding of the material. In addition, each of the first seven chapters concludes with a thorough set of review exercises and additional true/false questions. Supplements to the text include an Instructor's Manual with answers to all of the exercises in the text, and a Student Solutions Manual with detailed answers to the starred exercises in the text. Finally, there are seven additional web sections available on the book's website to instructors who adopt the text.

- Builds a foundation for math majors in reading and writing elementary mathematical proofs as part of their intellectual/professional development to assist in later math courses
- Presents each chapter as a self-contained and thoroughly explained modular unit.
- Provides clearly written and concisely explained ancillary materials, including four appendices expanding on the core concepts of elementary linear algebra
- Prepares students for future math courses by focusing on the conceptual and

practical basics of proofs

 [Download Elementary Linear Algebra, Fifth Edition ...pdf](#)

 [Read Online Elementary Linear Algebra, Fifth Edition ...pdf](#)

Elementary Linear Algebra, Fifth Edition

By Stephen Andrilli, David Hecker

Elementary Linear Algebra, Fifth Edition By Stephen Andrilli, David Hecker

Elementary Linear Algebra, 5th edition, by Stephen Andrilli and David Hecker, is a textbook for a beginning course in linear algebra for sophomore or junior mathematics majors. This text provides a solid introduction to both the computational and theoretical aspects of linear algebra. The textbook covers many important real-world applications of linear algebra, including graph theory, circuit theory, Markov chains, elementary coding theory, least-squares polynomials and least-squares solutions for inconsistent systems, differential equations, computer graphics and quadratic forms. Also, many computational techniques in linear algebra are presented, including iterative methods for solving linear systems, **LDU** Decomposition, the Power Method for finding eigenvalues, **QR** Decomposition, and Singular Value Decomposition and its usefulness in digital imaging.

The most unique feature of the text is that students are nurtured in the art of creating mathematical proofs using linear algebra as the underlying context. The text contains a large number of worked out examples, as well as more than 970 exercises (with over 2600 total questions) to give students practice in both the computational aspects of the course and in developing their proof-writing abilities. Every section of the text ends with a series of true/false questions carefully designed to test the students' understanding of the material. In addition, each of the first seven chapters concludes with a thorough set of review exercises and additional true/false questions. Supplements to the text include an Instructor's Manual with answers to all of the exercises in the text, and a Student Solutions Manual with detailed answers to the starred exercises in the text. Finally, there are seven additional web sections available on the book's website to instructors who adopt the text.

- Builds a foundation for math majors in reading and writing elementary mathematical proofs as part of their intellectual/professional development to assist in later math courses
- Presents each chapter as a self-contained and thoroughly explained modular unit.
- Provides clearly written and concisely explained ancillary materials, including four appendices expanding on the core concepts of elementary linear algebra
- Prepares students for future math courses by focusing on the conceptual and practical basics of proofs

Elementary Linear Algebra, Fifth Edition By Stephen Andrilli, David Hecker Bibliography

- Sales Rank: #1082567 in Books
- Published on: 2016-03-10
- Original language: English
- Number of items: 1
- Dimensions: 1.80" h x 7.60" w x 9.30" l, 3.47 pounds
- Binding: Hardcover
- 806 pages

 [**Download** Elementary Linear Algebra, Fifth Edition ...pdf](#)

 [**Read Online** Elementary Linear Algebra, Fifth Edition ...pdf](#)

Download and Read Free Online Elementary Linear Algebra, Fifth Edition By Stephen Andrilli, David Hecker

Editorial Review

About the Author

Dr. Andrilli has a Ph.D. degree in mathematics from Rutgers University, and is an Associate Professor in the Mathematics and Computer Science Department at La Salle University in Philadelphia, PA, having previously taught at Mount St. Mary's University in Emmitsburg, MD. He has taught linear algebra to sophomore/junior mathematics, mathematics-education, chemistry, geology, and other science majors for over thirty years. Dr. Andrilli's other mathematical interests include history of mathematics, college geometry, group theory, and mathematics-education, for which he served as a supervisor of undergraduate and graduate student-teachers for almost two decades. He has pioneered an Honors Course at La Salle based on Douglas Hofstadter's "Godel, Escher, Bach," into which he weaves the Alice books by Lewis Carroll. Dr. Andrilli lives in the suburbs of Philadelphia with his wife Ene. He enjoys travel, classical music, classic movies, classic literature, science-fiction, and mysteries. His favorite author is J. R. R. Tolkien.

Dr. Hecker has a Ph.D. degree in mathematics from Rutgers University, and is a Professor in the Mathematics Department at Saint Joseph's University in Philadelphia, PA. He has taught linear algebra to sophomore/junior mathematics and science majors for over three decades. Dr. Hecker has previously served two terms as Chair of his department, and his other mathematical interests include real and complex analysis, and linear algebra. He lives on five acres in the farmlands of New Jersey with his wife Lyn, and is very devoted to his four children. Dr. Hecker enjoys photography, camping and hiking, beekeeping, geocaching, science-fiction, humorous jokes and riddles, and rock and country music. His favorite rock group is the Moody Blues.

Users Review

From reader reviews:

Cody Smith:

Now a day folks who Living in the era just where everything reachable by connect with the internet and the resources within it can be true or not need people to be aware of each data they get. How many people to be smart in having any information nowadays? Of course the answer then is reading a book. Looking at a book can help individuals out of this uncertainty Information particularly this Elementary Linear Algebra, Fifth Edition book as this book offers you rich facts and knowledge. Of course the information in this book hundred per cent guarantees there is no doubt in it you probably know this.

Jeffrey Spencer:

Playing with family in a very park, coming to see the marine world or hanging out with pals is thing that usually you will have done when you have spare time, and then why you don't try point that really opposite from that. 1 activity that make you not sensation tired but still relaxing, trilling like on roller coaster you are ride on and with addition of knowledge. Even you love Elementary Linear Algebra, Fifth Edition, you can enjoy both. It is fine combination right, you still desire to miss it? What kind of hang-out type is it? Oh come on its mind hangout folks. What? Still don't understand it, oh come on its called reading friends.

Edward McClung:

Are you kind of hectic person, only have 10 or maybe 15 minute in your moment to upgrading your mind expertise or thinking skill also analytical thinking? Then you have problem with the book when compared with can satisfy your short space of time to read it because all of this time you only find publication that need more time to be read. Elementary Linear Algebra, Fifth Edition can be your answer mainly because it can be read by you who have those short spare time problems.

Rachel Addison:

What is your hobby? Have you heard in which question when you got learners? We believe that that problem was given by teacher to their students. Many kinds of hobby, All people has different hobby. And also you know that little person such as reading or as reading become their hobby. You need to know that reading is very important and also book as to be the factor. Book is important thing to include you knowledge, except your own teacher or lecturer. You find good news or update in relation to something by book. Amount types of books that can you go onto be your object. One of them is this Elementary Linear Algebra, Fifth Edition.

Download and Read Online Elementary Linear Algebra, Fifth Edition By Stephen Andrilli, David Hecker #6VPM0U5ICBK

Read Elementary Linear Algebra, Fifth Edition By Stephen Andrilli, David Hecker for online ebook

Elementary Linear Algebra, Fifth Edition By Stephen Andrilli, David Hecker 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 Elementary Linear Algebra, Fifth Edition By Stephen Andrilli, David Hecker books to read online.

Online Elementary Linear Algebra, Fifth Edition By Stephen Andrilli, David Hecker ebook PDF download

Elementary Linear Algebra, Fifth Edition By Stephen Andrilli, David Hecker Doc

Elementary Linear Algebra, Fifth Edition By Stephen Andrilli, David Hecker Mobipocket

Elementary Linear Algebra, Fifth Edition By Stephen Andrilli, David Hecker EPub