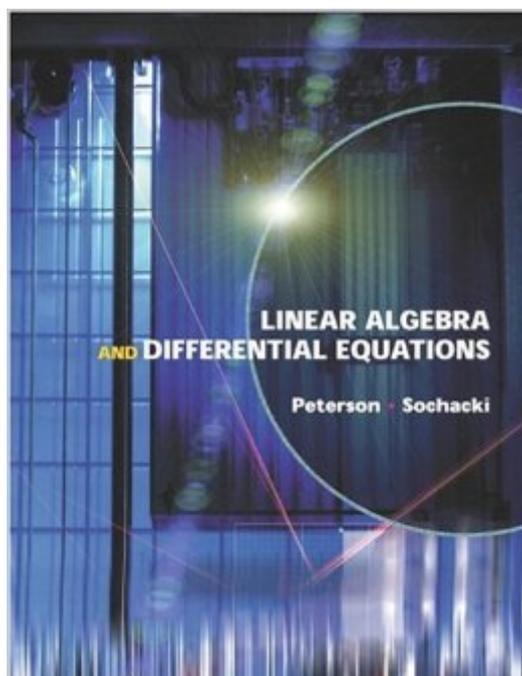# Linear Algebra And Differential Equations

## Synopsis

 This book has been written for a one-semester combined linear algebra and differential equations course, yet it contains enough material for a two-term sequence in linear algebra and differential equations. By introducing matrices, determinants, and vector spaces early in the course, the authors are able to fully develop the connections between linear algebra and differential equations. The book is flexible enough to be easily adapted to fit most syllabi, including courses that cover differential equations first. Technology is fully integrated where appropriate, and the text offers fresh and relevant applications to motivate student interest.   Matrices and Determinants; Vector Spaces; First Order Ordinary Differential Equations; Linear Differential Equations; Linear Transformations and Eigenvalues and Eigenvectors; Systems of Differential Equations; The Laplace Transform; Power Series Solutions to Linear Differential Equations; Inner Product Spaces   For all readers interested in linear algebra and differential equations.

## Book Information

Paperback: 480 pages

Publisher: Pearson; 1 edition (August 3, 2001)

Language: English

ISBN-10: 0201662124

ISBN-13: 978-0201662122

Product Dimensions:  7.4 x 1 x 9 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review:  2.7 out of 5 stars  See all reviews (15 customer reviews)

Best Sellers Rank: #138,414 in Books (See Top 100 in Books)   #51 in Books > Science & Math > Mathematics > Applied > Differential Equations   #59 in Books > Science & Math > Mathematics > Pure Mathematics > Algebra > Linear   #366 in Books > Textbooks > Science & Mathematics > Mathematics > Algebra & Trigonometry

## Customer Reviews

I bought this book for my linear algebra class. I actually enjoyed the class (math nerd) and I think this book was a factor in that. The explanations were clear and concise, the examples applicable for the exercises that followed. The only thing that could be improved upon is the software integration -- I struggled with the problems that used mathematical programs. I used Mathematica which is straight forward enough (and free) but still needed a lot of help from fellow classmates and TA's.

I actually had Peterson the author of this text for the course. The book is application driven as opposed to pure mathematics. If you are using this book in a course i would highly recommend the solution manual as well because some of the application problems are hard to tackle, and plus peterson wrote the solution manual so it goes with the text very well.

The condition of the book was actually better than the expected "good" condition. I was happy with the shipping and with the book itself.However, as others have mentioned, the content in the book is not very clear. My professor was not clear either and I had to rely on tutorials on the internet and Google to understand the concepts. I'm not a math major, so that may be the reason why. Prepare for a lot of hard work!

I like the way it was written and organized (for the most part), but the book fell apart before I got to chapter 2. I like to hold on my textbooks for reference, but the stitching was not good, and the pages kept falling out.

We only paid $20 to rent this textbook so I gave it 2 stars but the pages are falling out of the book. I will come back and take my rating down to 1 star if I have any problems when I turn the book back in.

If this book is required for your math course, I highly suggest taking another course! There were various books of Linear Algebra and Differential Equations that my college uses for lecture and unfortunately I took the course which requires this one. This book was definitely written for those gifted with an easy understanding for mathematics, and I feel that the author didn't consider the learning process of how a student absorbs new mathematical material. To quote the book, page 69, "Lest we be accused of doing everything for you, we will let you verify the last two properties as an exercise." And this was in regard to a definition's very first example! I thought the solutions manual would help so I decided to purchase that too. Unfortunately, it's as helpless as this book since it doesn't show step-by-step solutions, only direct answers. I've completed and Aced my whole calculus series, and yet, this material was so difficult to grasp primarily because of the way it was written.If you have no other option than to take a course which requires this book make sure beforehand who the professor is, and that he/she has a reputation of being an excellent professor.

I love both these subjects, but I hate this book.

Good product. Description matched perfectly.

Student Solutions Manual for Differential Equations: Computing and Modeling and Differential Equations and Boundary Value Problems: Computing and Modeling Differential Equations and Boundary Value Problems: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Differential Equations: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Applied Partial Differential Equations with Fourier Series and Boundary Value Problems (5th Edition) (Featured Titles for Partial Differential Equations) Fundamentals of Differential Equations and Boundary Value Problems (6th Edition) (Featured Titles for Differential Equations) Fundamentals of Differential Equations (8th Edition) (Featured Titles for Differential Equations) Algebra Essentials Practice Workbook with Answers: Linear & Quadratic Equations, Cross Multiplying, and Systems of Equations (Improve Your Math Fluency Series) Differential Equations and Linear Algebra (3rd Edition) Differential Equations and Linear Algebra (4th Edition) Differential Equations and Linear Algebra (2nd Edition) Student Solutions Manual for Differential Equations and Linear Algebra Linear Algebra and Differential Equations Linear algebra with differential equations Linear Algebra and Its Applications plus New MyMathLab with Pearson eText -- Access Card Package (5th Edition) (Featured Titles for Linear Algebra (Introductory)) Linear Algebra with Applications (9th Edition) (Featured Titles for Linear Algebra (Introductory)) Linear Algebra With Applications (Jones and Bartlett Publishers Series in Mathematics. Linear) A-Plus Notes for Beginning Algebra: Pre-Algebra and Algebra 1 Transformations Of Coordinates, Vectors, Matrices And Tensors Part I: LAGRANGE'S EQUATIONS, HAMILTON'S EQUATIONS, SPECIAL THEORY OF RELATIVITY AND CALCULUS ... Mathematics From 0 And 1 Book 16) Contact Geometry and Nonlinear Differential Equations (Encyclopedia of Mathematics and its Applications) Finite Difference Methods for Ordinary and Partial Differential Equations: Steady-State and Time-Dependent Problems (Classics in Applied Mathematics)