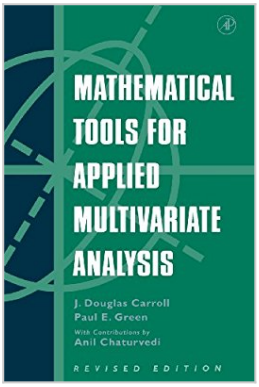

Mathematical Tools for Applied Multivariate Analysis

By J. Douglas Carroll, Paul E. Green

Mathematical Tools for Applied Multivariate Analysis By J. Douglas Carroll, Paul E. Green

This revised edition presents the relevant aspects of transformational geometry, matrix algebra, and calculus to those who may be lacking the necessary mathematical foundations of applied multivariate analysis. It brings up-to-date many definitions of mathematical concepts and their operations. It also clearly defines the relevance of the exercises to concerns within the business community and the social and behavioral sciences. Readers gain a technical background for tackling applications-oriented multivariate texts and receive a geometric perspective for understanding multivariate methods."**Mathematical Tools for Applied Multivariate Analysis, Revised Edition** illustrates major concepts in matrix algebra, linear structures, and eigenstructures geometrically, numerically, and algebraically. The authors emphasize the applications of these techniques by discussing potential solutions to problems outlined early in the book. They also present small numerical examples of the various concepts.

- Provides a technical base for tackling most applications-oriented multivariate texts
- Presents a geometric perspective for aiding ones intuitive grasp of multivariate methods
- Emphasizes technical terms current in the social and behavioral sciences, statistics, and mathematics
- Can be used either as a stand-alone text or a supplement to a multivariate statistics textbook
- Employs many pictures and diagrams to convey an intuitive perception of matrix algebra concepts
- Toy problems provide a step-by-step approach to each model and matrix algebra concept
- Provides solutions for all exercises

Mathematical Tools for Applied Multivariate Analysis

By J. Douglas Carroll, Paul E. Green

Mathematical Tools for Applied Multivariate Analysis By J. Douglas Carroll, Paul E. Green

This revised edition presents the relevant aspects of transformational geometry, matrix algebra, and calculus to those who may be lacking the necessary mathematical foundations of applied multivariate analysis. It brings up-to-date many definitions of mathematical concepts and their operations. It also clearly defines the relevance of the exercises to concerns within the business community and the social and behavioral sciences. Readers gain a technical background for tackling applications-oriented multivariate texts and receive a geometric perspective for understanding multivariate methods."**Mathematical Tools for Applied Multivariate Analysis, Revised Edition** illustrates major concepts in matrix algebra, linear structures, and eigenstructures geometrically, numerically, and algebraically. The authors emphasize the applications of these techniques by discussing potential solutions to problems outlined early in the book. They also present small numerical examples of the various concepts.

- Provides a technical base for tackling most applications-oriented multivariate texts
- Presents a geometric perspective for aiding ones intuitive grasp of multivariate methods
- Emphasizes technical terms current in the social and behavioral sciences, statistics, and mathematics
- Can be used either as a stand-alone text or a supplement to a multivariate statistics textbook
- Employs many pictures and diagrams to convey an intuitive perception of matrix algebra concepts
- Toy problems provide a step-by-step approach to each model and matrix algebra concept
- Provides solutions for all exercises

Mathematical Tools for Applied Multivariate Analysis By J. Douglas Carroll, Paul E. Green Bibliography

- Sales Rank: #2213691 in Books
- Published on: 1997-10-14
- Original language: English
- Number of items: 1
- Dimensions: 9.02" h x .81" w x 5.98" l, 1.25 pounds
- Binding: Paperback
- 376 pages

Editorial Review

Review

"This revision includes an update of terminology and basic mathematical concepts necessitated by the increasing use of multivariate techniques in a wide range of applied fields. It is highly recommended as a companion text for courses in multivariate methods and theory." --***JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION***

"[The book's] approach is unique and should be an interesting and effective way to learn basic linear algebra, even for some who are primarily interested in linear algebra for its own sake." --***CHOICE***

"It provides a careful and thorough introduction to vectors and matrices. Especially valuable is the material providing geometric interpretations...A particular strength of the book is the frequent use of small numerical examples which, for example, actually demonstrate the useful properties of determinants, and make absolutely clear what is meant by operations like the multiplication of matrices. The book is designed for readers who have no prior knowledge of matrix theory, and specifically for students in the behavioural and administrative sciences. However, it is also very clear and useful that it has material of value to anyone using multivariate methods. It should be on the reading list for all courses on multivariate analysis." --**B.J.T. Morgan, Univeristy of Kent, Canterbury, U.K. in *SHORT BOOK REVIEWS*, December 1998**

From the Back Cover

This revised edition presents the relevant aspects of transformational geometry, matrix algebra, and calculus to those who may be lacking the necessary mathematical foundations of applied multivariate analysis. It brings up-do-date many definitions of mathematical concepts and their operations. It also clearly defines the relevance of the exercises to concerns within the business community and the social and behavioral sciences. Readers will gain a technical background for tackling applications-oriented multivariate texts and receive a geometric perspective for understanding multivariate methods.

Mathematical Tools for Applied Multivariate Analysis illustrates major concepts in matrix algebra, linear structures, and eigenstructures geometrically, numerically, and algebraically. The authors emphasize the applications of these techniques by discussing potential solutions to problems outlined early in the book. They also present small numerical examples of the various concepts.

Key Features

* Provides a technical base for tackling most applications-oriented multivariate texts
* Presents a geometric perspective for aiding one's intuitive grasp of multivariate methods
* Emphasizes technical terms current in the social and behavioral sciences, statistics, and mathematics
* Can be used either as a stand-alone text or a supplement to a multivariate statistics textbook
* Employs many pictures and diagrams to convey an intuitive perception of matrix algebra concepts
* "Toy" problems provide a step-by-step approach to each model and matrix algebra concept
* Provides solutions for all exercises

About the Author

J. Douglas Carroll is the Board of Governor's Professor of Marketing and Psychology in the Graduate School of Management at Rutgers, the State University of New Jersey. He holds a Ph.D. in mathematics from Princeton University. Dr. Carroll has published widely on multidimensional scaling and related techniques of

data analysis. He is a member of several professional organizations.

Users Review

From reader reviews:

Diana Sturgill:

Do you have favorite book? In case you have, what is your favorite's book? Guide is very important thing for us to understand everything in the world. Each book has different aim or even goal; it means that reserve has different type. Some people really feel enjoy to spend their a chance to read a book. They may be reading whatever they have because their hobby is actually reading a book. How about the person who don't like reading through a book? Sometime, particular person feel need book when they found difficult problem as well as exercise. Well, probably you will require this Mathematical Tools for Applied Multivariate Analysis.

Jennifer Wadsworth:

The actual book Mathematical Tools for Applied Multivariate Analysis will bring someone to the new experience of reading a new book. The author style to elucidate the idea is very unique. In the event you try to find new book you just read, this book very suited to you. The book Mathematical Tools for Applied Multivariate Analysis is much recommended to you to learn. You can also get the e-book in the official web site, so you can quickly to read the book.

Ann Mickey:

Do you have something that you want such as book? The book lovers usually prefer to opt for book like comic, brief story and the biggest the first is novel. Now, why not attempting Mathematical Tools for Applied Multivariate Analysis that give your pleasure preference will be satisfied simply by reading this book. Reading habit all over the world can be said as the method for people to know world much better then how they react when it comes to the world. It can't be explained constantly that reading routine only for the geeky person but for all of you who wants to always be success person. So , for all you who want to start reading through as your good habit, you can pick Mathematical Tools for Applied Multivariate Analysis become your starter.

Michele Brown:

In this period of time globalization it is important to someone to find information. The information will make a professional understand the condition of the world. The health of the world makes the information easier to share. You can find a lot of sources to get information example: internet, newspaper, book, and soon. You will observe that now, a lot of publisher that will print many kinds of book. Typically the book that recommended for your requirements is Mathematical Tools for Applied Multivariate Analysis this e-book consist a lot of the information with the condition of this world now. This particular book was represented how do the world has grown up. The dialect styles that writer require to explain it is easy to understand. The actual writer made some research when he makes this book. This is why this book ideal all of you.

Read Mathematical Tools for Applied Multivariate Analysis By J. Douglas Carroll, Paul E. Green for online ebook

Mathematical Tools for Applied Multivariate Analysis By J. Douglas Carroll, Paul E. Green 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 Mathematical Tools for Applied Multivariate Analysis By J. Douglas Carroll, Paul E. Green books to read online.

Online Mathematical Tools for Applied Multivariate Analysis By J. Douglas Carroll, Paul E. Green ebook PDF download

Mathematical Tools for Applied Multivariate Analysis By J. Douglas Carroll, Paul E. Green Doc

Mathematical Tools for Applied Multivariate Analysis By J. Douglas Carroll, Paul E. Green Mobipocket

Mathematical Tools for Applied Multivariate Analysis By J. Douglas Carroll, Paul E. Green EPub

G7DLIZ8Q1HT: Mathematical Tools for Applied Multivariate Analysis By J. Douglas Carroll, Paul E. Green