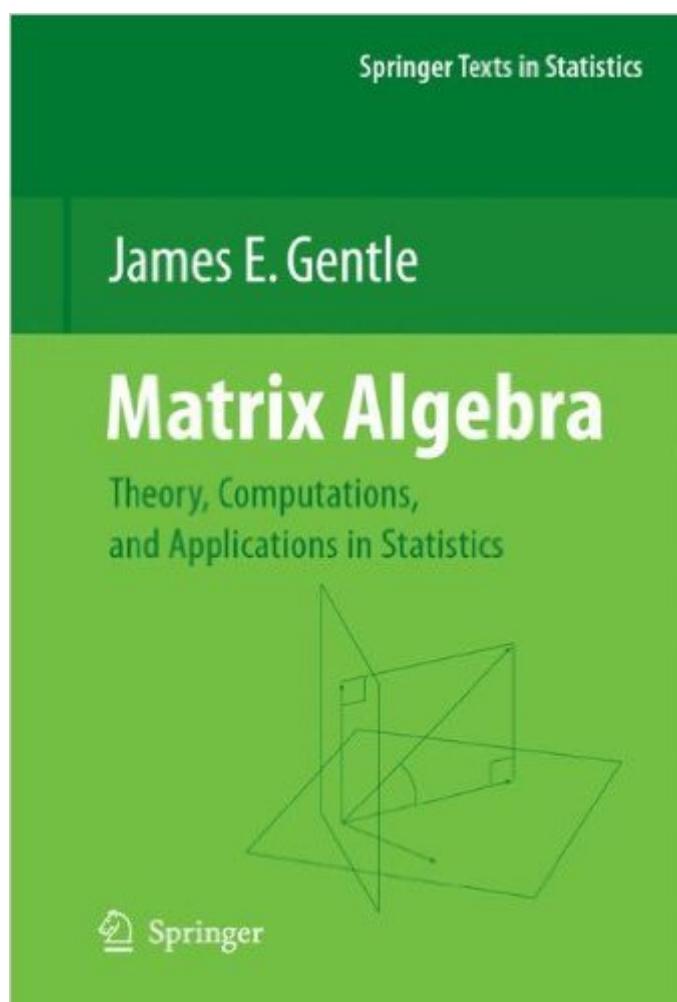


The book was found

Matrix Algebra: Theory, Computations, And Applications In Statistics (Springer Texts In Statistics)



Synopsis

This much-needed work presents, among other things, the relevant aspects of the theory of matrix algebra for applications in statistics. Written in an informal style, it addresses computational issues and places more emphasis on applications than existing texts.

Book Information

Series: Springer Texts in Statistics

Paperback: 530 pages

Publisher: Springer; Softcover reprint of hardcover 1st ed. 2007 edition (November 19, 2010)

Language: English

ISBN-10: 1441924248

ISBN-13: 978-1441924247

Product Dimensions: 6 x 1.2 x 9 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 starsÂ See all reviewsÂ (6 customer reviews)

Best Sellers Rank: #2,013,080 in Books (See Top 100 in Books) #121 inÂ Books > Science & Math > Mathematics > Matrices #316 inÂ Books > Science & Math > Mathematics > Number Systems #346 inÂ Books > Science & Math > Mathematics > Popular & Elementary > Counting & Numeration

Customer Reviews

I am not a real mathematician or hard core numeric analyst; my formal training is lacking, and maybe that's why I don't gravitate to Dennis Bernstein's text or others like it. I have managed to get past the very basics (rank, determinants, permanents, spectral decomposition, Jordon normal form) and come to appreciate the numeric issues involved in computing (or, more to the point, avoiding the computation of) inverses and pseudoinverses. The theory is less interesting to me than, or at least is primarily in service of, the applications. James Gentle's treatment of how numeric computing is actually done serves as useful context which I found missing in some more theoretical texts, and glossed over by some introductory texts. I guess that's why I keep coming back to it. It serves my personal needs. I find it surprisingly readable; diagrams are used as needed, and its index is good. Perhaps I am simply in a sort of limbo, where this intermediate (?) linear algebra text is something I might eventually outgrow. (When that might happen, I'm sure I don't know) Experienced numeric analysts seem to prefer treatments like Bernstein, Horn, or Golub & Van Loan, while the SIAM text by Meyer or the classic textbooks by Strang are probably better introductions. This book

is clearly slanted towards statisticians, and more than that, statisticians who find themselves operating on large datasets, perhaps without a rigorous math background. It was invaluable to me when I had to implement my own GLM engine (for reasons too boring to discuss here, I couldn't use GPLed software). You don't really need it to peck at R, for example, but if you go to scale up a piece of code in C++ or similar, it will be much more difficult if you haven't digested this material.

[Download to continue reading...](#)

Matrix Algebra: Theory, Computations, and Applications in Statistics (Springer Texts in Statistics)
Matrix Computations (Johns Hopkins Studies in the Mathematical Sciences) Fundamentals of Matrix Computations Applied Bayesian Statistics: With R and OpenBUGS Examples (Springer Texts in Statistics) All of Statistics: A Concise Course in Statistical Inference (Springer Texts in Statistics) Statistics for People Who (Think They) Hate Statistics (Salkind, Statistics for People Who(Think They Hate Statistics(Without CD)) A Survey of Matrix Theory and Matrix Inequalities (Dover Books on Mathematics) Applied Linear Algebra and Matrix Analysis (Undergraduate Texts in Mathematics) Modeling Longitudinal Data (Springer Texts in Statistics) The Essential Guide to the ACT Matrix: A Step-by-Step Approach to Using the ACT Matrix Model in Clinical Practice Hands-On Matrix Algebra Using R: Active and Motivated Learning with Applications Coding the Matrix: Linear Algebra through Applications to Computer Science Matrix Algebra: An Introduction (Quantitative Applications in the Social Sciences) Linear Algebra and Matrix Theory (Dover Books on Mathematics) Einstein in Matrix Form: Exact Derivation of the Theory of Special and General Relativity without Tensors (Graduate Texts in Physics) A-Plus Notes for Beginning Algebra: Pre-Algebra and Algebra 1 Books of Breathing and Related Texts -Late Egyptian Religious Texts in the British Museum Vol.1 (Catalogue of the Books of the Dead and Other Religious Texts in the British Museum) Matrix Theory and Applications with MATLAB Adjustment Computations: Spatial Data Analysis Matrix Analysis and Applied Linear Algebra Book and Solutions Manual

[Dmca](#)