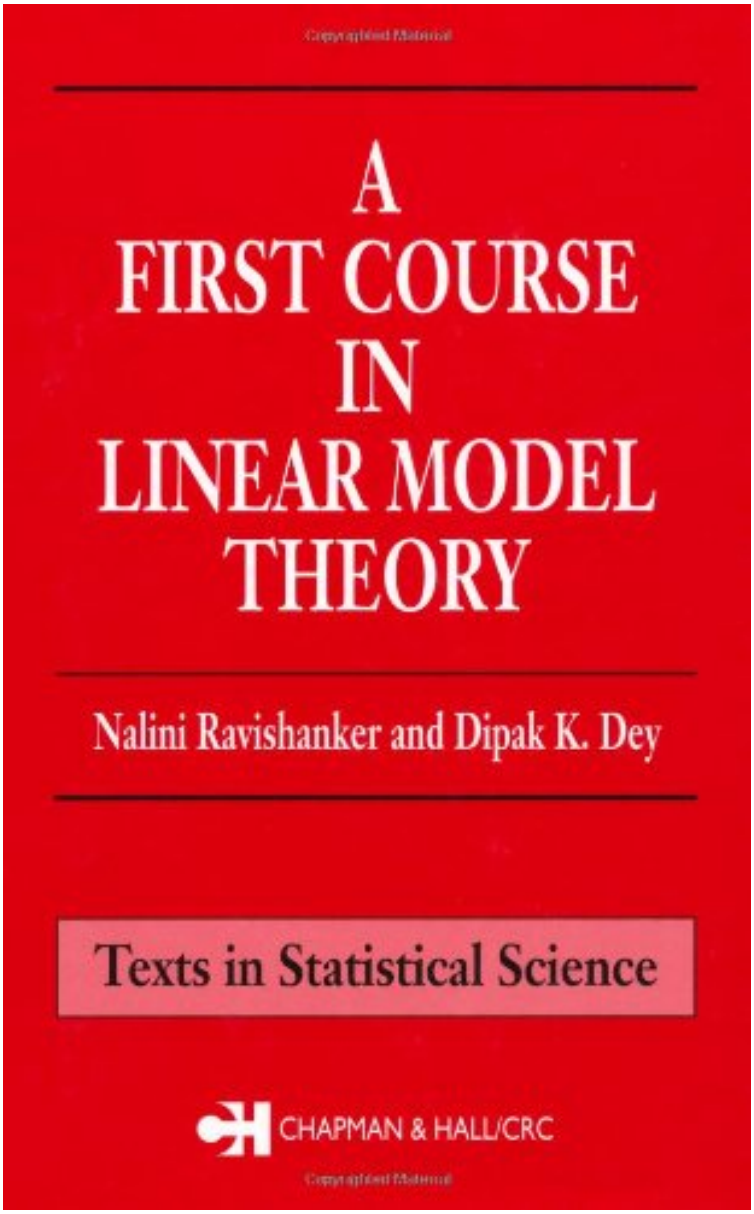
A First Course in Linear Model Theory

Nalini Ravishanker, Dipak K. Dey



#1319605 in Books Chapman and Hall/CRC 2001-12-21Original language:EnglishPDF # 1 9.60 x 1.24 x 6.40l, 1.81 #File Name: 1584882476496 pages | File size: 70.Mb

Nalini Ravishanker, Dipak K. Dey : A First Course in Linear Model Theory before purchasing it in order to gage whether or not it would be worth my time, and all praised A First Course in Linear Model Theory:

3 of 4 people found the following review helpful. Excellent Introductory bookBy Anonymous statmanThis book may serve as an excellent introductory tool to a graduate linear models class; specially for students who come from fields

not all that related to math and statistics. The book starts with a broad review of linear algebra (it even mentions the forgotten tool of reduced row echelon form to find the rank of a matrix) followed by the theory of basic linear modelling. After the introduction, the book will gradually get deeper into the theory while implementing the concepts of the first few chapters. Some sections can be fairly complex which as a result makes the book appealing to both master and phD level students. The later chapters provide brief introductions to smoothing, longitudinal models, principal components and other concepts used in practice. There were some errors in the book but it is my understanding that most of them have been fixed in the second printing. My complements to the authors for such work.0 of 0 people found the following review helpful. It's okBy KeylaI bought this book because it was required for my linear models class. The book has nice examples and I like the way it is organized. However, this version it is not the first printing, yet it still have too many typos.0 of 0 people found the following review helpful. Five StarsBy Wentao GeSomewhat expensive

This innovative, intermediate-level statistics text fills an important gap by presenting the theory of linear statistical models at a level appropriate for senior undergraduate or first-year graduate students. With an innovative approach, the author's introduces students to the mathematical and statistical concepts and tools that form a foundation for studying the theory and applications of both univariate and multivariate linear modelsA First Course in Linear Model Theory systematically presents the basic theory behind linear statistical models with motivation from an algebraic as well as a geometric perspective. Through the concepts and tools of matrix and linear algebra and distribution theory, it provides a framework for understanding classical and contemporary linear model theory. It does not merely introduce formulas, but develops in students the art of statistical thinking and inspires learning at an intuitive level by emphasizing conceptual understanding.The authors' fresh approach, methodical presentation, wealth of examples, and introduction to topics beyond the classical theory set this book apart from other texts on linear models. It forms a refreshing and invaluable first step in students' study of advanced linear models, generalized linear models, nonlinear models, and dynamic models.