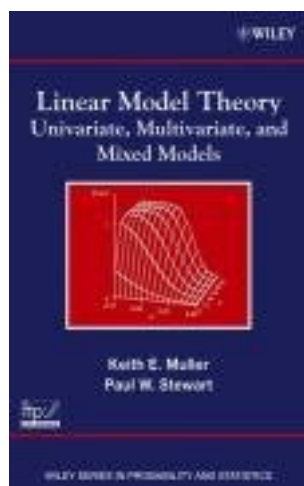


Linear Model Theory



[Linear Model Theory_ 下载链接1](#)

著者:Muller, Keith E./ Stewart, Paul W.

出版者:John Wiley & Sons Inc

出版时间:2006-8

装帧:HRD

isbn:9780471214885

A precise and accessible presentation of linear model theory, illustrated with data examples. Statisticians often use linear models for data analysis and for developing new statistical methods. Most books on the subject have historically discussed univariate, multivariate, and mixed linear models separately, whereas *Linear Model Theory: Univariate, Multivariate, and Mixed Models* presents a unified treatment in order to make clear the distinctions among the three classes of models. *Linear Model Theory: Univariate, Multivariate, and Mixed Models* begins with six chapters devoted to providing brief and clear mathematical statements of models, procedures, and notation. Data examples motivate and illustrate the models. Chapters 7-10 address distribution theory of multivariate Gaussian variables and quadratic forms. Chapters 11-19 detail methods for estimation, hypothesis testing, and confidence intervals. The final chapters, 20-23, concentrate on choosing a sample size. Substantial sets of exercises of varying difficulty serve instructors for their classes, as well as help students to test their own knowledge. The reader needs a basic knowledge of statistics, probability, and inference, as well as a solid background in matrix theory and

applied univariate linear models from a matrix perspective. Topics covered include: * A review of matrix algebra for linear models * The general linear univariate model * The general linear multivariate model * Generalizations of the multivariate linear model * The linear mixed model * Multivariate distribution theory * Estimation in linear models * Tests in Gaussian linear models * Choosing a sample size in Gaussian linear models

Filling the need for a text that provides the necessary theoretical foundations for applying a wide range of methods in real situations, Linear Model Theory: Univariate, Multivariate, and Mixed Models centers on linear models of interval scale responses with finite second moments. Models with complex predictors, complex responses, or both, motivate the presentation.

作者介绍:

目录:

[Linear Model Theory_ 下载链接1](#)

标签

评论

[Linear Model Theory_ 下载链接1](#)

书评

[Linear Model Theory_ 下载链接1](#)