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Elliptically Contoured Models in Statistics and Portfolio Theory

Second Edition

 Springer

Elliptically Contoured Models In Statistics

Michiel Hazewinkel



Elliptically Contoured Models In Statistics:

Elliptically Contoured Models in Statistics Arjun K Gupta,Tamas Varga,1993-01-31 **Elliptically Contoured Models in Statistics and Portfolio Theory** Arjun K. Gupta,Tamas Varga,Taras Bodnar,2013-09-07 Elliptically Contoured Models in Statistics and Portfolio Theory fully revises the first detailed introduction to the theory of matrix variate elliptically contoured distributions There are two additional chapters and all the original chapters of this classic text have been updated Resources in this book will be valuable for researchers practitioners and graduate students in statistics and related fields of finance and engineering Those interested in multivariate statistical analysis and its application to portfolio theory will find this text immediately useful In multivariate statistical analysis elliptical distributions have recently provided an alternative to the normal model Elliptical distributions have also increased their popularity in finance because of the ability to model heavy tails usually observed in real data Most of the work however is spread out in journals throughout the world and is not easily accessible to the investigators A noteworthy function of this book is the collection of the most important results on the theory of matrix variate elliptically contoured distributions that were previously only available in the journal based literature The content is organized in a unified manner that can serve as a valuable introduction to the subject **Elliptically Contoured Models in Statistics** Arjun K. Gupta,Tamas Varga,2012-12-06 In multivariate statistical analysis elliptical distributions have recently provided an alternative to the normal model Most of the work however is spread out in journals throughout the world and is not easily accessible to the investigators Fang Kotz and Ng presented a systematic study of multivariate elliptical distributions however they did not discuss the matrix variate case Recently Fang and Zhang have summarized the results of generalized multivariate analysis which include vector as well as the matrix variate distributions On the other hand Fang and Anderson collected research papers on matrix variate elliptical distributions many of them published for the first time in English They published very rich material on the topic but the results are given in paper form which does not provide a unified treatment of the theory Therefore it seemed appropriate to collect the most important results on the theory of matrix variate elliptically contoured distributions available in the literature and organize them in a unified manner that can serve as an introduction to the subject The book will be useful for researchers teachers and graduate students in statistics and related fields whose interests involve multivariate statistical analysis Parts of this book were presented by Arjun K Gupta as a one semester course at Bowling Green State University Some new results have also been included which generalize the results in Fang and Zhang Knowledge of matrix algebra and statistics at the level of Anderson is assumed However Chapter 1 summarizes some results of matrix algebra **Multidimensional Statistical Analysis and Theory of Random Matrices** A. K. Gupta,V. L. Girko,2019-01-14 No detailed description available for Multidimensional Statistical Analysis and Theory of Random Matrices **Statistical Inference for Models with Multivariate t-Distributed Errors** A. K. Md. Ehsanes Saleh,Mohammad Arashi,S. M. M. Tabatabaey,2014-10-01 This book summarizes the results of various models under normal

theory with a brief review of the literature Statistical Inference for Models with Multivariate t Distributed Errors Includes a wide array of applications for the analysis of multivariate observations Emphasizes the development of linear statistical models with applications to engineering the physical sciences and mathematics Contains an up to date bibliography featuring the latest trends and advances in the field to provide a collective source for research on the topic Addresses linear regression models with non normal errors with practical real world examples Uniquely addresses regression models in Student t distributed errors and t models Supplemented with an Instructor's Solutions Manual which is available via written request by the Publisher Skew-Normal Model Theories and Their Applications Rendao Ye, Wenyan Zhu, Yue Qi, Kun Luo, 2024-11-08

The book focuses on several skew normal mixed effects models and systematically explores statistical inference theories methods and applications of parameters of interest This book is of academic value as it helps to establish a series of statistical inference theories and methods for skew normal mixed effects models On the applications side it provides efficient methods and tools for practical data analysis in various fields including economics finance biology and medical science

Statistical Models for Data Analysis Paolo Giudici, Salvatore Ingrassia, Maurizio Vichi, 2013-07-01 The papers in this book cover issues related to the development of novel statistical models for the analysis of data They offer solutions for relevant problems in statistical data analysis and contain the explicit derivation of the proposed models as well as their implementation The book assembles the selected and refereed proceedings of the biannual conference of the Italian Classification and Data Analysis Group CLADAG a section of the Italian Statistical Society **Linear Models and**

Time-Series Analysis Marc S. Paoletta, 2018-12-17 A comprehensive and timely edition on an emerging new trend in time series Linear Models and Time Series Analysis Regression ANOVA ARMA and GARCH sets a strong foundation in terms of distribution theory for the linear model regression and ANOVA univariate time series analysis ARMAX and GARCH and some multivariate models associated primarily with modeling financial asset returns copula based structures and the discrete mixed normal and Laplace It builds on the author's previous book Fundamental Statistical Inference A Computational Approach which introduced the major concepts of statistical inference Attention is explicitly paid to application and numeric computation with examples of Matlab code throughout The code offers a framework for discussion and illustration of numerics and shows the mapping from theory to computation The topic of time series analysis is on firm footing with numerous textbooks and research journals dedicated to it With respect to the subject technology many chapters in Linear Models and Time Series Analysis cover firmly entrenched topics regression and ARMA Several others are dedicated to very modern methods as used in empirical finance asset pricing risk management and portfolio optimization in order to address the severe change in performance of many pension funds and changes in how fund managers work Covers traditional time series analysis with new guidelines Provides access to cutting edge topics that are at the forefront of financial econometrics and industry Includes latest developments and topics such as financial returns data notably also in a multivariate context

Written by a leading expert in time series analysis Extensively classroom tested Includes a tutorial on SAS Supplemented with a companion website containing numerous Matlab programs Solutions to most exercises are provided in the book Linear Models and Time Series Analysis Regression ANOVA ARMA and GARCH is suitable for advanced masters students in statistics and quantitative finance as well as doctoral students in economics and finance It is also useful for quantitative financial practitioners in large financial institutions and smaller finance outlets **Matrix Variate Distributions** A K Gupta,D K Nagar,2018-05-02 Useful in physics economics psychology and other fields random matrices play an important role in the study of multivariate statistical methods Until now however most of the material on random matrices could only be found scattered in various statistical journals Matrix Variate Distributions gathers and systematically presents most of the recent developments in continuous matrix variate distribution theory and includes new results After a review of the essential background material the authors investigate the range of matrix variate distributions including matrix variate normal distribution Wishart distribution Matrix variate t distribution Matrix variate beta distribution F distribution Matrix variate Dirichlet distribution Matrix quadratic forms With its inclusion of new results Matrix Variate Distributions promises to stimulate further research and help advance the field of multivariate statistical analysis **Model-Based Clustering and Classification for Data Science** Charles Bouveyron,Gilles Celeux,T. Brendan Murphy,Adrian E. Raftery,2019-07-25 Cluster analysis finds groups in data automatically Most methods have been heuristic and leave open such central questions as how many clusters are there Which method should I use How should I handle outliers Classification assigns new observations to groups given previously classified observations and also has open questions about parameter tuning robustness and uncertainty assessment This book frames cluster analysis and classification in terms of statistical models thus yielding principled estimation testing and prediction methods and sound answers to the central questions It builds the basic ideas in an accessible but rigorous way with extensive data examples and R code describes modern approaches to high dimensional data and networks and explains such recent advances as Bayesian regularization non Gaussian model based clustering cluster merging variable selection semi supervised and robust classification clustering of functional data text and images and co clustering Written for advanced undergraduates in data science as well as researchers and practitioners it assumes basic knowledge of multivariate calculus linear algebra probability and statistics **Statistical Analysis of Graph Structures in Random Variable Networks** V. A. Kalyagin,A. P. Koldanov,P. A. Koldanov,P. M. Pardalos,2020-12-05 This book studies complex systems with elements represented by random variables Its main goal is to study and compare uncertainty of algorithms of network structure identification with applications to market network analysis For this a mathematical model of random variable network is introduced uncertainty of identification procedure is defined through a risk function random variables networks with different measures of similarity dependence are discussed and general statistical properties of identification algorithms are studied The volume also introduces a new class of identification algorithms based on a new

measure of similarity and prove its robustness in a large class of distributions and presents applications to social networks power transmission grids telecommunication networks stock market networks and brain networks through a theoretical analysis that identifies network structures Both researchers and graduate students in computer science mathematics and optimization will find the applications and techniques presented useful

Contemporary Multivariate Analysis and Design of Experiments Kaitai Fang, 2005 Index Subject index Author index

Limit Theory for Mixing Dependent Random Variables Lin Zhengyan, Lu Chuanrong, 1997-07-31 For many practical problems observations are not independent In this book limit behaviour of an important kind of dependent random variables the so called mixing random variables is studied Many profound results are given which cover recent developments in this subject such as basic properties of mixing variables powerful probability and moment inequalities weak convergence and strong convergence approximation limit behaviour of some statistics with a mixing sample and many useful tools are provided Audience This volume will be of interest to researchers and graduate students in the field of probability and statistics whose work involves dependent data variables

Encyclopaedia of Mathematics Michiel Hazewinkel, 2012-12-06 This is the second supplementary volume to Kluwer's highly acclaimed eleven volume Encyclopaedia of Mathematics This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing eleven volumes and together these twelve volumes represent the most authoritative comprehensive and up to date Encyclopaedia of Mathematics available

Growth Curve Models and Statistical Diagnostics Jian-Xin Pan, Kai-Tai Fang, 2012-11-06 Growth curve models are generalized multivariate analysis of variance models These models are especially useful for investigating growth problems on short times in economics biology medical research and epidemiology This book systematically introduces the theory of the GCM with particular emphasis on their multivariate statistical diagnostics which are based mainly on recent developments made by the authors and their collaborators The authors provide complete proofs of theorems as well as practical data sets and MATLAB code

Handbook of Cluster Analysis Christian Hennig, Marina Meila, Fionn Murtagh, Roberto Rocci, 2015-12-16 Handbook of Cluster Analysis provides a comprehensive and unified account of the main research developments in cluster analysis Written by active distinguished researchers in this area the book helps readers make informed choices of the most suitable clustering approach for their problem and make better use of existing cluster analysis tools

The Encyclopedia of Statistical Sciences, Volume 3, 2005-12-16 Countless professionals and students who use statistics in their work rely on the multi volume Encyclopedia of Statistical Sciences as a superior and unique source of information on statistical theory methods and applications This new edition available in both print and on line versions is designed to bring the encyclopedia in line with the latest topics and advances made in statistical science over the past decade in areas such as computer intensive statistical methodology genetics medicine the environment and other

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Mixture Model-Based Classification Paul D. McNicholas, 2016-10-04 This is a great overview of the field of model based clustering and classification by one of its leading developers McNicholas provides a resource that I am certain will be used by researchers in statistics and related disciplines for quite some time The discussion of mixtures with heavy tails and asymmetric distributions will place this text as the authoritative modern reference in the mixture modeling literature Douglas Steinley University of Missouri Mixture Model Based Classification is the first monograph devoted to mixture model based approaches to clustering and classification This is both a book for established researchers and newcomers to the field A history of mixture models as a tool for classification is provided and Gaussian mixtures are considered extensively including mixtures of factor analyzers and other approaches for high dimensional data Non Gaussian mixtures are considered from mixtures with components that parameterize skewness and or concentration right up to mixtures of multiple scaled distributions Several other important topics are considered including mixture approaches for clustering and classification of longitudinal data as well as discussion about how to define a cluster Paul D McNicholas is the Canada Research Chair in Computational Statistics at McMaster University where he is a Professor in the Department of Mathematics and Statistics His research focuses on the use of mixture model based approaches for classification with particular attention to clustering applications and he has published extensively within the field He is an associate editor for several journals and has served as a guest editor for a number of special issues on mixture models

A First Course in Linear Model Theory Nalini Ravishanker, Zhiyi Chi, Dipak K. Dey, 2021-10-18 Thoroughly updated throughout A First Course in Linear Model Theory Second Edition is an intermediate level statistics text that 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 authors introduce to students the mathematical and statistical concepts and tools that form a foundation for studying the theory and applications of both univariate and multivariate linear models In addition to adding R functionality this second edition features three new chapters and several sections on new topics that are extremely relevant to the current research in statistical methodology Revised or expanded topics include linear fixed random and mixed effects models generalized linear models Bayesian and hierarchical linear models model selection multiple comparisons and regularized and robust regression New to the Second Edition Coverage of inference for linear models has been expanded into two chapters Expanded coverage of multiple comparisons random and mixed effects models model selection and missing data A new chapter on generalized linear models Chapter 12 A new section on

multivariate linear models in Chapter 13 and expanded coverage of the Bayesian linear models and longitudinal models A new section on regularized regression in Chapter 14 Detailed data illustrations using R The authors fresh approach methodical presentation wealth of examples use of R 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 **Journal of the American Statistical Association** ,2003

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