

Numerical Methods for Nonlinear Estimating Equations

Christopher G. Small
and Jinfang Wang

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Rachel S Tattersall



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Numerical Methods for Nonlinear Engineering Models John R. Hauser, 2009-03-24 There are many books on the use of numerical methods for solving engineering problems and for modeling of engineering artifacts In addition there are many styles of such presentations ranging from books with a major emphasis on theory to books with an emphasis on applications The purpose of this book is hopefully to present a somewhat different approach to the use of numerical methods for engineering applications Engineering models are in general nonlinear models where the response of some appropriate engineering variable depends in a nonlinear manner on the variation of some independent parameter It is certainly true that for many types of engineering models it is sufficient to approximate the real physical world by some linear model However when engineering environments are pushed to extreme conditions nonlinear effects are always encountered It is also such extreme conditions that are of major importance in determining the reliability or failure limits of engineering systems Hence it is essential that engineers have a toolbox of modeling techniques that can be used to model nonlinear engineering systems Such a set of basic numerical methods is the topic of this book For each subject area treated nonlinear models are incorporated into the discussion from the very beginning and linear models are simply treated as special cases of more general nonlinear models This is a basic and fundamental difference in this book from most books on numerical methods

Principles of Multivariate Analysis Wojtek Krzanowski, 2000-09-28 This book is an introduction to the principles and methodology of modern multivariate statistical analysis It is written for the user and potential user of multivariate techniques as well as for students coming to the subject for the first time The author's emphasis is problem orientated and he is at pains to stress geometrical intuition in preference to algebraic manipulation Mathematical sections that are not essential for a practical understanding of the techniques are clearly indicated so that they may be skipped by the non specialist Discrete and mixed variable techniques are presented as well as continuous variable techniques to give a comprehensive coverage of the subject This updated edition includes a new appendix which traces developments that have taken place in the years since the publication of the first edition and which clarifies some issues raised by readers of the original text References to about 60 recent books and articles supplement the material in this appendix Overall this volume provides an up to date and readable practical account of the subject both for students of statistics and for research workers in subjects as diverse as anthropology education industry medicine and taxonomy The new edition includes a survey of the most recent developments in the subject

Advances in Fuzzy Integral and Differential Equations Tofiq Allahviranloo, Soheil Salahshour, 2021-07-25 As the title of the book suggests the topics of this book are organized into two parts The first part points out the fuzzy differential equations and the second one is related to the fuzzy integral equations The book contains nine chapters that six chapters are about fuzzy differential equations and three of them are about fuzzy integral equations In each part the chapters authors are going to discuss the topics theoretically and numerically All researchers and students in the field of mathematical computer and also engineering sciences can benefit from the subjects of the book

Time Series: A Biostatistical

Introduction Peter Diggle, Emanuele Giorgi, 2025-02-25 Time series analysis is one of several branches of statistics whose practical importance has increased with the availability of powerful computational tools Methodology that was originally developed for specialized applications for example in finance or geophysics is now widely available within general statistical packages The second edition of *Time Series A Biostatistical Introduction* is an introductory account of time series analysis written from the perspective of applied statisticians whose interests lie primarily in the biomedical and health sciences This edition has a stronger focus on substantive applications in which each statistical analysis is directed at a specific research question Separate chapters cover simple descriptive methods of analysis including time plots smoothing the correlogram and the periodogram theory of stationary random processes discrete time models for single series continuous time models for single series generalized linear models for time series of counts models for replicated series spectral analysis and bivariate time series The book is unique in its focus on biomedical and health science applications which has been strengthened in this second edition Nevertheless the methods described are more widely applicable It should be useful to teachers and students on masters level degree courses in statistics biostatistics and epidemiology and to biomedical and health scientists with a knowledge of statistical methods at undergraduate level Throughout examples based on real datasets show a close interplay between statistical method and substantive science This book will also describe the implementation of the methods in the R computing environment and provide access to R code and datasets

Time Series Analysis by State Space Methods James Durbin, Siem Jan Koopman, 2012-05-03 This is a comprehensive treatment of the state space approach to time series analysis A distinguishing feature of state space time series models is that observations are regarded as made up of distinct components which are each modelled separately

Statistical Modelling in GLIM 4 Murray A. Aitkin, Brian Francis, John Hinde, 2005 This text examines the theory of statistical modelling with generalised linear models It also looks at applications of the theory to practical problems using the GLIM4 package Provided by publisher

Analysis of Longitudinal Data Peter Diggle, Scott Zeger, 2013-03-14 This second edition has been completely revised and expanded to become the most up to date and thorough professional reference text in this fast moving area of biostatistics It contains an additional two chapters on fully parametric models for discrete repeated measures data and statistical models for time dependent predictors

Procrustes Problems John C Gower, Garnt B Dijksterhuis, 2004-01-22 Procrustean methods are used to transform one set of data to represent another set of data as closely as possible The name derives from the Greek myth where Procrustes invited passers by in for a pleasant meal and a night's rest on a magical bed that would exactly fit any guest He then either stretched the guest on the rack or cut off their legs to make them fit perfectly into the bed Theseus turned the tables on Procrustes fatally adjusting him to fit his own bed This text the first monograph on Procrustes methods unifies several strands in the literature and contains much new material It focuses on matching two or more configurations by using orthogonal projection and oblique axes transformations Group average summaries play an important part and links with

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Philip Rabinowitz,British Computer Society. Numerical Analysis Specialist Group,1970 **An Introduction to Model-Based Survey Sampling with Applications** Ray L. Chambers,Robert Clark,2012-01-12 This text brings together important ideas on the model based approach to sample survey which has been developed over the last twenty years Suitable for graduate students and professional statisticians it moves from basic ideas fundamental to sampling to more rigorous mathematical modelling and data analysis and includes exercises and solutions **Robustness Theory and Application** Brenton R. Clarke,2018-06-21 A preeminent expert in the field explores new and exciting methodologies in the ever growing field of robust statistics Used to develop data analytical methods which are resistant to outlying observations in the data while capable of detecting outliers robust statistics is extremely useful for solving an array of common problems such as estimating location scale and regression parameters Written by an internationally recognized expert in the field of robust statistics this book addresses a range of well established techniques while exploring in depth new and exciting methodologies Local robustness and global robustness are discussed and problems of non identifiability and adaptive estimation are considered Rather than attempt an exhaustive investigation of robustness the author provides readers with a timely review of many of the most important problems in statistical inference involving robust estimation along with a brief look at confidence intervals for location Throughout the author meticulously links research in maximum likelihood estimation with the more general M estimation methodology Specific applications and R and some MATLAB subroutines with accompanying data sets available both in the text and online are employed wherever appropriate Providing invaluable insights and guidance Robustness Theory and Application Offers a balanced presentation of theory and applications within each topic specific discussion Features solved examples throughout which help clarify complex and or difficult concepts Meticulously links research in maximum likelihood type estimation with the more general M estimation methodology Delves into new methodologies which have been developed over the past decade without stinting on coverage of tried and true methodologies

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Natural Gas Primož Potocnik,2010-08-18 The contributions in this book present an overview of cutting edge research on natural gas which is a vital component of world s supply of energy Natural gas is a combustible mixture of hydrocarbon gases primarily methane but also heavier gaseous hydrocarbons such as ethane propane and butane Unlike other fossil fuels natural gas is clean burning and emits lower levels of potentially harmful by products into the air Therefore it is considered as one of the cleanest safest and most useful of all energy sources applied in variety of residential commercial and industrial fields The book is organized in 25 chapters that cover various aspects of natural gas research technology applications forecasting numerical simulations transport and risk assessment

Monte Carlo Simulation and Finance Don L. McLeish,2011-09-13 Monte Carlo methods have been used for decades in physics engineering statistics and other fields Monte Carlo Simulation and Finance explains the nuts and bolts of this essential technique used to value derivatives and other securities Author and educator Don McLeish examines this fundamental process and discusses important issues including specialized problems in finance that Monte Carlo and Quasi Monte Carlo methods can help solve and the different ways Monte Carlo methods can be improved upon This state of the art book on Monte Carlo simulation methods is ideal for finance professionals and students Order your copy today

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