

Nonlinear Regression Analysis and Its Applications

Douglas M. Bates

Department of Statistics
University of Wisconsin
Madison, Wisconsin

Donald G. Watts

Department of Mathematics
and Statistics
Queen's University
Kingston, Ontario, Canada



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Jianqing Fan, Irene Gijbels



Nonlinear Regression Analysis And Its Applications:

Nonlinear Regression Analysis and Its Applications Douglas M. Bates, Donald G. Watts, 2007-04-23 Provides a presentation of the theoretical practical and computational aspects of nonlinear regression There is background material on linear regression including a geometrical development for linear and nonlinear least squares *Nonlinear Regression Analysis and Its Applications* Douglas M. Bates, Donald G. Watts, 1988 Nonlinear Regression with R Christian Ritz, Jens Carl Streibig, 2008-12-11 R is a rapidly evolving lingua franca of graphical display and statistical analysis of experiments from the applied sciences Currently R offers a wide range of functionality for nonlinear regression analysis but the relevant functions packages and documentation are scattered across the R environment This book provides a coherent and unified treatment of nonlinear regression with R by means of examples from a diversity of applied sciences such as biology chemistry engineering medicine and toxicology R Subsequent chapters explain the salient features of the main fitting function `nls` the use of model diagnostics how to deal with various model departures and carry out hypothesis testing In the final chapter grouped data structures including an example of a nonlinear mixed effects regression model are considered Numerical Methods of Statistics John F. Monahan, 2001-02-05 This 2001 book provides a basic background in numerical analysis and its applications in statistics Alternative Methods of Regression David Birkes, Dr. Yadolah Dodge, 1993-08-30 Of related interest *Nonlinear Regression Analysis and its Applications* Douglas M Bates and Donald G Watts an extraordinary presentation of concepts and methods concerning the use and analysis of nonlinear regression models highly recommended for anyone needing to use and or understand issues concerning the analysis of nonlinear regression models *Technometrics* This book provides a balance between theory and practice supported by extensive displays of instructive geometrical constructs Numerous in depth case studies illustrate the use of nonlinear regression analysis with all data sets real Topics include multi response parameter estimation models defined by systems of differential equations and improved methods for presenting inferential results of nonlinear analysis 1988 0 471 81643 4 365 pp *Nonlinear Regression* G A F Seber and C J Wild a comprehensive and scholarly work impressively thorough with attention given to every aspect of the modeling process *Short Book Reviews of the International Statistical Institute* In this introduction to nonlinear modeling the authors examine a wide range of estimation techniques including least squares quasi likelihood and Bayesian methods and discuss some of the problems associated with estimation The book presents new and important material relating to the concept of curvature and its growing role in statistical inference It also covers three useful classes of models growth compartmental and multiphase and emphasizes the limitations involved in fitting these models Packed with examples and graphs it offers statisticians statistical consultants and statistically oriented research scientists up to date access to their fields 1989 0 471 61760 1 768 pp *Mathematical Programming in Statistics* T S Arthanari and Yadolah Dodge The authors have achieved their stated intention in an outstanding and useful manner for both students and researchers Contains a superb synthesis of references

linked to the special topics and formulations by a succinct set of bibliographical notes Should be in the hands of all system analysts and computer system architects Computing Reviews This unique book brings together most of the available results on applications of mathematical programming in statistics and also develops the necessary statistical and programming theory and methods 1981 0 471 08073 X 413 pp *A Complexity Theory for Public Policy* Göktuğ Morçöl,2013-05-02 Complexity theory has become popular in the natural and social sciences over the last few decades as a result of the advancements in our understanding of the complexities in natural and social phenomena Concepts and methods of complexity theory have been applied by scholars of public affairs in North America and Europe but a comprehensive framework for these applications is lacking A Complexity Theory for Public Policy proposes a conceptual synthesis and sets a foundation for future developments and applications In this book G ktu Mor l convincingly makes the case that complexity theory can help us understand better the self organizational emergent and co evolutionary characteristics of complex policy systems In doing so he discuss the epistemological implications of complexity theory and the methods complexity researchers use and those methods they could use As the complexity studies spread more around the world in the coming decades the contents of this book will become appealing to larger audiences particularly to scholars and graduate students in public affairs The unique combination of synthesis and explanation of concepts and methods found in this book will serve as reference frames for future works **Nonlinear Regression with R** Christian Ritz,Jens Carl Streibig,2008-11-01 Coherent and unified treatment of nonlinear regression with R Example based approach Wide area of application **Local Polynomial Modelling and Its Applications** Jianqing Fan,Irene Gijbels,2018-05-02 Data analytic approaches to regression problems arising from many scientific disciplines are described in this book The aim of these nonparametric methods is to relax assumptions on the form of a regression function and to let data search for a suitable function that describes the data well The use of these nonparametric functions with parametric techniques can yield very powerful data analysis tools Local polynomial modeling and its applications provides an up to date picture on state of the art nonparametric regression techniques The emphasis of the book is on methodologies rather than on theory with a particular focus on applications of nonparametric techniques to various statistical problems High dimensional data analytic tools are presented and the book includes a variety of examples This will be a valuable reference for research and applied statisticians and will serve as a textbook for graduate students and others interested in nonparametric regression *Robust Nonlinear Regression* Hossein Riazoshams,Habshah Midi,Gebrenegus Ghilagaber,2018-06-11 The first book to discuss robust aspects of nonlinear regression with applications using R software Robust Nonlinear Regression with Applications using R covers a variety of theories and applications of nonlinear robust regression It discusses both parts of the classic and robust aspects of nonlinear regression and focuses on outlier effects It develops new methods in robust nonlinear regression and implements a set of objects and functions in S language under SPLUS and R software The software covers a wide range of robust nonlinear

fitting and inferences and is designed to provide facilities for computer users to define their own nonlinear models as an object and fit models using classic and robust methods as well as detect outliers The implemented objects and functions can be applied by practitioners as well as researchers The book offers comprehensive coverage of the subject in 9 chapters Theories of Nonlinear Regression and Inference Introduction to R Optimization Theories of Robust Nonlinear Methods Robust and Classical Nonlinear Regression with Autocorrelated and Heteroscedastic errors Outlier Detection R Packages in Nonlinear Regression A New R Package in Robust Nonlinear Regression and Object Sets The first comprehensive coverage of this field covers a variety of both theoretical and applied topics surrounding robust nonlinear regression Addresses some commonly mishandled aspects of modeling R packages for both classical and robust nonlinear regression are presented in detail in the book and on an accompanying website Robust Nonlinear Regression with Applications using R is an ideal text for statisticians biostatisticians and statistical consultants as well as advanced level students of statistics **Monotone**

Structure in Discrete-Event Systems Paul Glasserman, David D. Yao, 1994-03-22 Information previously available only in journal articles and research papers has been brought together in this outstanding text Uses the unifying theme of monotone structure to transcend the two perspective approach to DES one stressing logical qualitative issues and the other temporal quantitative analysis to encompass elements from both Features notes and references at the end of each chapter

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Wonnacott, 1990 This Fourth Edition includes new sections on graphs robust estimation expected value and the bootstrap in addition to new material on the use of computers The regression model is well covered including both nonlinear and multiple regression The chapters contain many real life examples and are relatively self contained making adaptable to a variety of courses From product description **Algebraic Probability Theory** Imre Ruzsa, Gábor J. Székely, 1988-11-28 A large part of probability theory is the study of operations on and convergence of probability distributions The most frequently used operations turn the set of distributions into a semigroup A considerable part of probability theory can be expressed proved sometimes even understood in terms of the abstract theory of topological semigroups The authors algebraic probability theory is a field where problems stem mainly from probability theory have an arithmetical flair and are often dressed in terms of algebra while the tools employed frequently belong to the theory of complex functions and abstract harmonic analysis It lies at the cross roads of numerous mathematical theories and should serve as a catalyst to further research

Common Principal Components and Related Multivariate Models Bernhard Flury, 1988-11-02 Recent developments in the theory of principal component analysis have led to generalizations to cases where data fall in natural groups This book offers for the first time a comprehensive view of the topics presented the mathematical theory applications to real data and computational techniques Treats both the classical method and recent generalizations including the model of proportional covariance matrices and the common principal component model and its variations Methods are illustrated by numerical examples based on real data The book should appeal to both mathematical and applied statisticians and numerical analysts will appreciate the material on simultaneous diagonalization of symmetric matrices **Statistical Methods for Quality**

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