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Statistical Tools for Nonlinear Regression

A Practical Guide with S-PLUS and R Examples

Second Edition

Statistical Tools For Nonlinear Regression

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Statistical Tools For Nonlinear Regression:

　　<u>Statistical Tools for Nonlinear Regression</u> Sylvie Huet,Anne Bouvier,Marie-Anne Poursat,Emmanuel Jolivet,2013-04-17 If you need to analyze a data set using a parametric nonlinear regression model if you are not on familiar terms with statistics and software and if you make do with S PLUS this book is for you In each chapter we start by presenting practical examples We then describe the problems posed by these examples in terms of statistical problems and we demonstrate how to solve these problems Finally we apply the proposed methods to the example data sets You will not find any mathematical proofs here Rather we try when possible to explain the solutions using intuitive arguments This is really a cook book Most of the methods proposed in the book are derived from classical nonlinear regression theory but we have also made attempts to provide you with more modern methods that have proved to perform well in practice Although the theoretical grounds are not developed here we give when appropriate some technical background using a sans serif type style You can skip these passages if you are not interested in this information The first chapter introduces several examples from experiments in agron omy and biochemistry to which we will return throughout the book Each example illustrates a different problem and we show how to methodically handle these problems by using parametric nonlinear regression models **Statistical Tools for Nonlinear Regression** Sylvie Huet,Anne Bouvier,Marie-Anne Poursat,2014-01-15 **Statistical Tools for Nonlinear Regression** Sylvie Huet,Anne Bouvier,Marie-Anne Poursat,2014-01-15 *Nonlinear Regression* George A. F. Seber,C. J. Wild,2005-02-25 WILEY INTERSCIENCE PAPERBACK SERIES The Wiley Interscience Paperback Series consists of selected books that have been made more accessible to consumers in an effort to increase global appeal and general circulation With these new unabridged softcover volumes Wiley hopes to extend the lives of these works by making them available to future generations of statisticians mathematicians and scientists From the Reviews of Nonlinear Regression A very good book and an important one in that it is likely to become a standard reference for all interested in nonlinear regression and I would imagine that any statistician concerned with nonlinear regression would want a copy on his shelves The Statistician Nonlinear Regression also includes a reference list of over 700 entries The compilation of this material and cross referencing of it is one of the most valuable aspects of the book Nonlinear Regression can provide the researcher unfamiliar with a particular specialty area of nonlinear regression an introduction to that area of nonlinear regression and access to the appropriate references Nonlinear Regression provides by far the broadest discussion of nonlinear regression models currently available and will be a valuable addition to the library of anyone interested in understanding and using such models including the statistical researcher Mathematical Reviews **Statistical Methods in the Atmospheric Sciences** Daniel S. Wilks,2011-05-20 This revised and expanded text explains the latest statistical methods that are being used to describe analyze test and forecast atmospheric data It features numerous worked examples illustrations equations and exercises with separate solutions The book will help advanced students and professionals understand and communicate what their data sets

have to say and make sense of the scientific literature in meteorology climatology and related disciplines **BMDP Statistical Software Manual** Wilfrid Joseph Dixon,1990 **BMDP Statistical Software** Wilfrid Joseph Dixon,Morton B. Brown,1983-01-01 Alternative Methods of Regression David Birkes,Dr. Yadolah Dodge,2011-09-20 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 recommend ed 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 Data Analysis Using the Method of Least Squares John Wolberg,2006-02-08 Measurements through quantitative experiments are one of the most f damental tasks in all areas of science and technology Astronomers a lyze data from asteroid sightings to predict orbits Computer scientists velop models for recognizing spam mail Physicists measure properties of materials at low temperatures to understand superconductivity Materials engineers study the reaction of materials to varying load levels to develop methods for prediction of failure Chemical engineers consider reactions as functions of temperature and pressure The list is endless From the very small scale work on DNA to the huge scale study of black holes quantitative experiments are performed and the data must be analyzed Probably the most popular method of analysis of the data associated with quantitative experiments is least squares It has

been said that the method of least squares was to statistics what calculus was to mathematics though the method is hardly mentioned in most engineering and science undergraduate curricula many graduate students end up using the method to analyze the data gathered as part of f their research There is not a lot of available literature on the subject Very few books deal with least squares at the level of detail that the subject deserves Many books on statistics clude a chapter on least squares but the treatment is usually limited to the simplest cases of linear least squares   *Publications of the National Bureau of Standards ... Catalog* United States. National Bureau of Standards,1983   **BMDP Statistical Software Manual** W. J. Dixon,Wilfrid Joseph Dixon,1988-01-01   **NBS Special Publication** ,1968   Statistical Tools for Simulation Practitioners Jack P. C. Kleijnen,1987   **Journal of the American Statistical Association** American Statistical Association,1998   **Current Index to Statistics, Applications, Methods and Theory** ,1997 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields   *MACSYMA for Statisticians* Barbara Heller,1991-06-07 Complements the MACSYMA program by showing professionals as well as students how to use it quickly and easily thus enabling them to perform ordinarily complicated and cumbersome mathematical procedures with a computer rather than by hand User friendly it allows for quick assimilation of the program and its features relying on expository material examples and exercises with answers Many of the examples explain how to solve statistical problems that are difficult to do by hand and also difficult to get the computer to figure out using the manual included with the program   **Statistics for Spatial Data** Noel A. C. Cressie,1993 The purpose of this book is to present statistics for spatial data to scientists and engineers It covers geostatistical data lattice data and point patterns   **Statistics for Research** Shirley Dowdy,Stanley Wearden,1991-01-22 Statistics for Experimenters An Introduction to Design Data Analysis and Model Building George E P Box William G Hunter and J Stuart Hunter The authors are to be congratulated for having written an excellent book The writing is literate and the technical aspects impeccable Journal of Quality Technology Demonstrates the design of highly efficient statistical and engineering programs using a special applied approach Covers hypothesis tests confidence intervals comparison of means t tests and more Includes many examples illustrations and exercises with answers throughout Advanced topics of special interest are detailed in readily understood language 1978 0 471 09315 7 653 pp Computer Intensive Methods for Testing Hypotheses An Introduction Eric W Noreen Designed to provide a basic understanding of computer intensive methods and their widespread applications this book offers computer intensive alternatives to virtually every conventional parametric and nonparametric test Assuming no more than a working knowledge of BASIC PASCAL or FORTRAN this work explores how computer intensive methods can be easily incorporated into your work The short simple and extremely flexible programs discussed here may be used as templates with only minor modification 1989 0 471 61136 0 229 pp Categorical Data Analysis Alan Agresti Chronicling the historical development of methods for analyzing categorical data this text enables practicing statisticians to catch up with recent advances and to

perform analyses There is a strong emphasis on statistical computer packages such as SAS SPPS BMDP and GLIM Modern methods for ordinal data longitudinal data and generalized linear models are explained and more than 40 examples of analyses of real data sets are offered Coverage includes models for categorical or continuous responses as special cases of generalized linear models methods for repeated measurement data outlined derivations of basic asymptotic and fixed sample size inferences discussion of exact small sample procedures and prescriptions for treating ordinal variables differently than nominal variables 1990 0 471 85301 1 558 pp **Directional Statistics** Kanti V. Mardia,Peter E. Jupp,2000 Observations which are directions axes or rotations occur in many sciences including astronomy biology earth sciences image analysis and medicine To analyse such data it is necessary to use the techniques of directional statistics in which the special structure of circles spheres and rotation groups is taken into account This book gives a unified and comprehensive account of directional statistics presenting both the underlying statistical theory and the practical methodology The book is divided into three parts The first part concentrates on statistics on the circle Topics covered include tests of uniformity tests of goodness of fit inference on von Mises distributions and non parametric methods The second part considers statistics on spheres of arbitrary dimension and includes a detailed account of inference on the main distributions on spheres Recent material on correlation regression time series robust techniques bootstrap methods density estimation and curve fitting is presented The third part considers statistics on more general sample spaces in particular rotation groups Stiefel manifolds Grassmann manifolds and complex projective spaces Shape analysis is considered from the perspective of directional statistics This text will be invaluable not only to researchers in probability and statistics interested in the latest developments in directional statistics but also to practitioners and researchers in many scientific fields including astronomy biology computer vision earth sciences and image analysis **Methods of Multivariate Analysis, Basic Applications** Alvin C. Rencher,1995-02-20 The accompanying diskette contains all of the data sets and SAS command files for all of the examples SAS is the leading statistical computer package on the market Students can adapt these command files to work problems in the text

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