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Leland Wilkinson



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Modern Applied Statistics with S-PLUS W.N. Venables, B.D. Ripley, 2013-04-17 S PLUS is a powerful environment for the statistical and graphical analysis of data. It provides the tools to implement many statistical ideas that have been made possible by the widespread availability of workstations having good graphics and computational capabilities. This book is a guide to using S PLUS to perform statistical analyses and provides both an introduction to the use of S PLUS and a course in modern statistical methods. S PLUS is available commercially for both Windows and UNIX workstations and both versions are covered in depth. The aim of the book is to show how to use S PLUS as a powerful and graphical data analysis system. Readers are assumed to have a basic grounding in statistics and so the book is intended for would be users of S PLUS and both students and researchers using statistics. Throughout the emphasis is on presenting practical problems and full analyses of real data sets. Many of the methods discussed are state of the art approaches to topics such as linear non linear and smooth regression models tree based methods multivariate analysis and pattern recognition survival analysis time series and spatial statistics. Throughout modern techniques such as robust methods non parametric smoothing and bootstrapping are used where appropriate. This third edition is intended for users of S PLUS 4.5.5.0 or later although S PLUS 3.3.4 are also considered. The major change from the second edition is coverage of the current versions of S PLUS. The material has been extensively rewritten using new examples and the latest computationally intensive methods. Volume 2 S programming which is in preparation will provide an

in depth guide for those writing software in the S language S Programming William Venables,B.D. Ripley,2013-03-09 S is a high level language for manipulating analysing and displaying data It forms the basis of two highly acclaimed and widely used data analysis software systems the commercial S PLUS and the Open Source R This book provides an in depth guide to writing software in the S language under either or both of those systems It is intended for readers who have some acquaintance with the S language and want to know how to use it more effectively for example to build re usable tools for streamlining routine data analysis or to implement new statistical methods One of the outstanding strengths of the S language is the ease with which it can be extended by users S is a functional language and functions written by users are first class objects treated in the same way as functions provided by the system S code is eminently readable and so a good way to document precisely what algorithms were used and as much of the implementations are themselves written in S they can be studied as models and to understand their subtleties The current implementations also provide easy ways for S functions to call compiled code written in C Fortran and similar languages this is documented here in depth Increasingly S is being used for statistical or graphical analysis within larger software systems or for whole vertical market applications The interface facilities are most developed on Windows and these are covered with worked examples The authors have written the widely used Modern Applied Statistics with S PLUS now in its third edition and several software libraries that enhance S PLUS and R these and the examples used in both books are available on the Internet Dr W N Venables is a senior Statistician with theCSIRO CMIS Environmetrics Project in Australia having been at the Department of Statistics University of Adelaide for many years previously Professor B D Ripley holds the Chair of Applied Statistics at the University of Oxford and is the author of four other books on spatial statistics simulation pattern recognition and neural networks Both authors are known and respected throughout the international S and R communities for their books workshops short courses freely available software and through their extensive contributions to the S news and R mailing lists **Modern Applied Statistics with S-PLUS** William N. Venables,Brian D. Ripley,2014-01-23 A guide to using the power of S PLUS to perform statistical analyses providing both an introduction to the program and a course in modern statistical methods Readers are assumed to have a basic grounding in statistics thus the book is intended for would be users as well as students and researchers using statistics Throughout the emphasis is on presenting practical problems and full analyses of real data sets with many of the methods discussed being modern approaches to topics such as linear and non linear regression models robust and smooth regression methods survival analysis multivariate analysis tree based methods time series spatial statistics and classification This second edition is intended for users of S PLUS 3.3 or later and covers both Windows and UNIX It treats the recent developments in graphics and new statistical functionality including bootstrapping mixed effects linear and non linear models factor analysis and regression with autocorrelated errors The authors have written several software libraries which enhance S PLUS and these plus all the datasets used are available on the Internet *S+SpatialStats* S. P. Kaluzny,1998-03-24 S

SPATIALSTATS is the first comprehensive object oriented package for the analysis of spatial data Providing a whole new set of analysis tools S SPATIALSTATS was created specifically for the exploration and modeling of spatially correlated data It can be used to analyze data arising in areas such as environmental mining and petroleum engineering natural resources geography epidemiology demography and others where data is sampled spatially This users manual provides the documentation for the S SPATIALSTATS module EnvironmentalStats for S-Plus® Steven P. Millard,2011-06-27 This is the User s Manual to the software package EnvironmentalStats for S PLUS which is an add on module for S PLUS providing the first comprehensive software package for environmental scientists engineers and regulators The new edition provides the documentation for Version 2 0 which runs under S PLUS 6 0 and includes extensive examples using real data sets

Applied Statistics in the Pharmaceutical Industry Steven P. Millard,Andreas Krause,2013-11-09 The purpose of this book is to provide a general guide to statistical methods used in the pharmaceutical industry and to illustrate how to use S PLUS to implement these methods Specifically the goal is to Illustrate statistical applications in the pharmaceutical industry Illustrate how the statistical applications can be carried out using S PLUS Illustrate why S PLUS is a useful software package for carrying out these applications Discuss the results and implications of a particular application The target audience for this book is very broad including Graduate students in biostatistics Statisticians who are involved in the industry as research scientists regulators academics and or consultants who want to know more about how to use S PLUS and learn about other sub fields within the indsutry that they may not be familiar with Statisticians in other fields who want to know more about statistical applications in the pharmaceutical industry Mixed-Effects Models in S and S-PLUS José C. Pinheiro,Douglas Bates,2009-04-15 R linear models random fixed data analysis fit **The Grammar of Graphics** Leland

Wilkinson,2013-03-09 Before writing the graphics for SYSTAT in the 1980 s I began by teaching a seminar in statistical graphics and collecting as many different quantitative graphics as I could find I was determined to produce a package that could draw every statistical graphic I had ever seen The structure of the program was a collection of procedures named after the basic graph types they p duced The graphics code was roughly one and a half megabytes in size In the early 1990 s I redesigned the SYSTAT graphics package using ject based technology I intended to produce a more comprehensive and namic package I accomplished this by embedding graphical elements in a tree structure Rendering graphics was done by walking the tree and editing worked by adding and deleting nodes The code size fell to under a megabyte In the late 1990 s I collaborated with Dan Rope at the Bureau of Labor Statistics and Dan Carr at George Mason University to produce a graphics p duction library called GPL this time in Java Our goal was to develop graphics components This book was nourished by that project So far the GPL code size is under half a megabyte **Local Regression and Likelihood** Clive Loader,2006-05-09 Separation of signal from noise is the most fundamental problem in data analysis arising in such fields as signal processing econometrics actuarial science and geostatistics This book introduces the local regression method in

univariate and multivariate settings with extensions to local likelihood and density estimation Practical information is also included on how to implement these methods in the programs S PLUS and LOCFIT

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