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Time Series Analysis and Its Applications R by Example Generalized Linear Models With Examples in R Introductory Statistics with R Statistical Analysis and Data Display R by Example Time Series Analysis Applied Compositional Data Analysis A Modern Approach to Regression with R A Beginner's Guide to R An Introduction to Statistical Learning Statistics and Data Analysis for Financial Engineering R Random Forests with R Introductory Time Series with R Data Manipulation with R Data Visualisation with R Introduction to Probabilistic and Statistical Methods with Examples in R Understanding Statistics Using R Statistical Analysis of Financial Data in R Statistical Analysis and Data Display Biostatistics with R Introduction to Statistics and Data Analysis Statistical Tools for Nonlinear Regression Examples in Parametric Inference with R Functional Data Analysis with R and MATLAB Chemometrics with R Six Sigma with R R R Applied Bayesian Statistics R for Business Analytics Fundamentals of High-Dimensional Statistics Sparse Estimation with Math and R A Modern Approach to Regression with R Data Multimodel Inference

Time Series Analysis and Its Applications

2017-04-25

the fourth edition of this popular graduate textbook like its predecessors presents a balanced and comprehensive treatment of both time and frequency domain methods with accompanying theory numerous examples using nontrivial data illustrate solutions to problems such as discovering natural and anthropogenic climate change evaluating pain perception experiments using functional magnetic resonance imaging and monitoring a nuclear test ban treaty the book is designed as a textbook for graduate level students in the physical biological and social sciences and as a graduate level text in statistics some parts may also serve as an undergraduate introductory course theory and methodology are separated to allow presentations on different levels in addition to coverage of classical methods of time series regression arima models spectral analysis and state space models the text includes modern developments including categorical time series analysis multivariate spectral methods long memory series nonlinear models resampling techniques garch models armax models stochastic volatility wavelets and markov chain monte carlo integration methods this edition includes r code for each numerical example in addition to appendix r which provides a reference for the data sets and r scripts used in the text in addition to a tutorial on basic r commands and r time series an additional file is available on the book s website for download making all the data sets and scripts easy to load into r

R by Example

2012-01-28

r by example is an example based introduction to the statistical computing environment that does not assume any previous familiarity with r or other software packages r functions are presented in the context of interesting applications with real data the purpose of this book is to illustrate a range of statistical and probability computations using r for people who are learning teaching or using statistics specifically this book is written for users who have covered at least the equivalent of or are currently studying undergraduate level calculus based courses in statistics these users are learning or applying exploratory and inferential methods for analyzing data and this book is intended to be a useful resource for learning how to implement these procedures in r

Generalized Linear Models With Examples in R

2018-11-10

this textbook presents an introduction to generalized linear models complete with real world data sets and practice problems making it applicable for both beginning and advanced students of applied statistics generalized linear models glms are powerful tools in applied statistics that extend the ideas of multiple linear regression and analysis of variance to include response variables that are not normally distributed as such glms can model a wide variety of data types including counts proportions and binary outcomes or positive quantities the book is designed with the student in mind making it suitable for self study or a structured course beginning with an introduction to linear regression the book also devotes time to advanced topics not typically included in introductory textbooks it features chapter introductions and summaries clear examples and many practice problems all carefully designed to balance theory and practice the text also provides a working knowledge of applied statistical practice through the extensive use of r which is integrated into the text other features include advanced topics such as power variance functions saddlepoint approximations likelihood score tests modified profile likelihood small dispersion asymptotics and randomized quantile residuals nearly 100 data sets in the companion r package glmsdata examples that are cross referenced to the companion data set allowing readers to load the data and follow the analysis in their own r session

Introductory Statistics with R

2008-08-15

this book provides an elementary level introduction to r targeting both non statistician scientists in various fields and students of statistics the main mode of presentation is via code examples with liberal commenting of the code and the output from the computational as well as the statistical viewpoint brief sections introduce the statistical methods before they are used a supplementary r package can be downloaded and contains the data sets all examples are directly runnable and all graphics in the text are generated from the examples the statistical methodology covered includes statistical standard distributions one and two sample tests with continuous data regression analysis one and two way analysis of variance regression analysis analysis of tabular data and sample size calculations in addition the last four chapters contain introductions to multiple linear regression analysis linear models in general logistic regression and survival analysis

Statistical Analysis and Data Display

2015-12-23

this contemporary presentation of statistical methods features extensive use of graphical displays for exploring data and for displaying the analysis the authors demonstrate how to analyze data showing code graphics and accompanying tabular listings for all the methods they cover complete r scripts for all examples and figures are provided for readers to use as models for their own analyses this book can serve as a standalone text for statistics majors at the master s level and for other quantitatively oriented disciplines at the doctoral level and as a reference book for researchers classical concepts and techniques are illustrated with a variety of case studies using both newer graphical tools and traditional tabular displays new graphical material includes an expanded chapter on graphics a section on graphing likert scale data to build on the importance of rating scales in fields from population studies to psychometrics a discussion on design of graphics that will work for readers with color deficient vision an expanded discussion on the design of multi panel graphics expanded and new sections in the discrete bivariate statistics capter on the use of mosaic plots for contingency tables including the n 2 2 tables for which the mantel haenszel cochran test is appropriate an interactive using the shiny package presentation of the graphics for the normal and t tables that is introduced early and used in many chapters

R by Example

2012-01-27

this book has been developed for a one semester course usually attended by students in statistics economics business engineering and quantitative social sciences a unique feature of this edition is its integration with the r computing environment basic applied statistics is assumed through multiple regression calculus is assumed only to the extent of minimizing sums of squares but a calculus based introduction to statistics is necessary for a thorough understanding of some of the theory actual time series data drawn from various disciplines are used throughout the book to illustrate the methodology

Time Series Analysis

2008-03-06

this book presents the statistical analysis of compositional data using the log ratio approach it includes a wide range of classical and robust statistical methods adapted for compositional data analysis such as supervised and unsupervised methods like pca correlation analysis classification and regression in addition it considers special data structures like high dimensional compositions and compositional tables the methodology introduced is also frequently compared to methods which ignore the specific nature of compositional data it focuses on practical aspects of compositional data analysis rather than on detailed theoretical derivations thus issues like graphical visualization and preprocessing treatment of missing values zeros outliers and similar artifacts form an important part of the book since it is primarily intended for researchers and students from applied fields like geochemistry chemometrics biology and natural sciences economics and social sciences all the proposed methods are accompanied by worked out examples in r using the package robcompositions

Applied Compositional Data Analysis

2018-11-03

this book focuses on tools and techniques for building regression models using real world data and assessing their validity a key theme throughout the book is that it makes sense to base inferences or conclusions only on valid models plots are shown to be an important tool for both building regression models and assessing their validity we shall see that deciding what to plot and how each plot should be interpreted will be a major challenge in order to overcome this challenge we shall need to understand the mathematical properties of the fitted regression models and associated diagnostic procedures as such this will be an area of focus throughout the book in particular we shall carefully study the properties of resi als in order to understand when patterns in residual plots provide direct information about model misspecification and when they do not the regression output and plots that appear throughout the book have been gen ated using r the output from r that appears in this book has been edited in minor ways on the book web site you will find the r code used in each example in the text

A Modern Approach to Regression with R

2009-02-27

based on their extensive experience with teaching r and statistics to applied scientists the authors provide a beginner s

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guide to r to avoid the difficulty of teaching r and statistics at the same time statistical methods are kept to a minimum the text covers how to download and install r import and manage data elementary plotting an introduction to functions advanced plotting and common beginner mistakes this book contains everything you need to know to get started with r

A Beginner's Guide to R

2009-06-24

an introduction to statistical learning provides an accessible overview of the field of statistical learning an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years this book presents some of the most important modeling and prediction techniques along with relevant applications topics include linear regression classification resampling methods shrinkage approaches tree based methods support vector machines clustering and more color graphics and real world examples are used to illustrate the methods presented since the goal of this textbook is to facilitate the use of these statistical learning techniques by practitioners in science industry and other fields each chapter contains a tutorial on implementing the analyses and methods presented in r an extremely popular open source statistical software platform two of the authors co wrote the elements of statistical learning hastie tibshirani and friedman 2nd edition 2009 a popular reference book for statistics and machine learning researchers an introduction to statistical learning covers many of the same topics but at a level accessible to a much broader audience this book is targeted at statisticians and non statisticians alike who wish to use cutting edge statistical learning techniques to analyze their data the text assumes only a previous course in linear regression and no knowledge of matrix algebra

An Introduction to Statistical Learning

2013-06-24

the new edition of this influential textbook geared towards graduate or advanced undergraduate students teaches the statistics necessary for financial engineering in doing so it illustrates concepts using financial markets and economic data r labs with real data exercises and graphical and analytic methods for modeling and diagnosing modeling errors these methods are critical because financial engineers now have access to enormous quantities of data to make use of this data the powerful methods in this book for working with quantitative information particularly about volatility and risks are essential strengths of this fully revised edition include major additions to the r code and the advanced topics covered individual chapters cover among other topics multivariate distributions copulas bayesian computations risk management and cointegration suggested prerequisites are basic knowledge of statistics and probability matrices and linear algebra and calculus there is an appendix on probability statistics and linear algebra practicing financial engineers will also find this book of interest

Statistics and Data Analysis for Financial Engineering

2015-04-21

\mathbf{R}

2019-11

this book offers an application oriented guide to random forests a statistical learning method extensively used in many fields of application thanks to its excellent predictive performance but also to its flexibility which places few restrictions on the nature of the data used indeed random forests can be adapted to both supervised classification problems and regression problems in addition they allow us to consider qualitative and quantitative explanatory variables together without pre processing moreover they can be used to process standard data for which the number of observations is higher than the number of variables while also performing very well in the high dimensional case where the number of variables is quite large in comparison to the number of observations consequently they are now among the preferred methods in the toolbox of statisticians and data scientists the book is primarily intended for students in academic fields such as statistical education but also for practitioners in statistics and machine learning a scientific undergraduate degree is quite sufficient to take full advantage of the concepts methods and tools discussed in terms of computer science skills little background knowledge is required though an introduction to the r language is recommended random forests are part of the family of tree based methods accordingly after an introductory chapter chapter 2 presents cart trees the next three chapters are devoted to random forests they focus on their presentation chapter 3 on the variable importance tool chapter 4 and on the variable selection problem chapter 5 respectively after discussing the concepts and methods we illustrate their implementation on a running example then various complements are provided before examining additional examples

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throughout the book each result is given together with the code in r that can be used to reproduce it thus the book offers readers essential information and concepts together with examples and the software tools needed to analyse data using random forests

Random Forests with R

2020-09-10

this book gives you a step by step introduction to analysing time series using the open source software r each time series model is motivated with practical applications and is defined in mathematical notation once the model has been introduced it is used to generate synthetic data using r code and these generated data are then used to estimate its parameters this sequence enhances understanding of both the time series model and the r function used to fit the model to data finally the model is used to analyse observed data taken from a practical application by using r the whole procedure can be reproduced by the reader all the data sets used in the book are available on the website staff elena aut ac nz paul cowpertwait ts the book is written for undergraduate students of mathematics economics business and finance geography engineering and related disciplines and postgraduate students who may need to analyse time series as part of their taught programme or their research

Introductory Time Series with R

2009-05-28

the r language provides a rich environment for working with data especially data to be used for statistical modeling or graphics coupled with the large variety of easily available packages it allows access to both well established and experimental statistical techniques however techniques that might make sense in other languages are often very ine cient in r but due to r s ibility it is often possible to implement these techniques in r generally the problem with such techniques is that they do not scale properly that is as the problem size grows the methods slow down at a rate that might be unexpected the goal of this book is to present a wide variety of data nipulation techniques implemented in r to take advantage of the way that r works ratherthandirectlyresemblingmethodsusedinotherlanguages since this requires a basic notion of how r stores data the rst chapter of the book is devoted to the fundamentals of data in r the material in this chapter is a prerequisite for understanding the ideas introduced in later chapters since one of the rst tasks in any project involving data and r is getting the data into r in a way that it will be usable chapter 2 covers reading data from a variety of sources text les spreadsheets les from other programs etc as well as saving r objects both in native form and in formats that other programs will be able to work with

Data Manipulation with R

2008-03-27

this book introduces readers to the fundamentals of creating presentation graphics using r based on 111 detailed and complete scripts it shows how bar and column charts population pyramids lorenz curves box plots scatter plots time series radial polygons gantt charts heat maps bump charts mosaic and balloon charts and a series of different thematic map types can be created using r s base graphics system every example uses real data and includes step by step explanations of the figures and their programming this second edition contains additional examples for cartograms chord diagrams and networks and interactive visualizations with javascript the open source software r is an established standard and a powerful tool for various visualizing applications integrating nearly all technologies relevant for data visualization the basic software enhanced by more than 14000 extension packs currently freely available is intensively used by organizations including google facebook and the cia the book serves as a comprehensive reference guide to a broad variety of applications in various fields this book is intended for all kinds of r users ranging from experts for whom especially the example codes are particularly useful to beginners who will find the finished graphics most helpful in learning what r can actually deliver

Data Visualisation with R

2019-11-23

this book strikes a healthy balance between theory and applications ensuring that it doesn t offer a set of tools with no mathematical roots it is intended as a comprehensive and largely self contained introduction to probability and statistics for university students from various faculties with accompanying implementations of some rudimentary statistical techniques in the language r the content is divided into three basic parts the first includes elements of probability theory the second introduces readers to the basics of descriptive and inferential statistics estimation hypothesis testing and the third presents the elements of correlation and linear regression analysis thanks to examples showing how to approach real

world problems using statistics readers will acquire stronger analytical thinking skills which are essential for analysts and data scientists alike

Introduction to Probabilistic and Statistical Methods with Examples in R

2020-05-22

this book was written to provide resource materials for teachers to use in their introductory or intermediate statistics class the chapter content is ordered along the lines of many popular statistics books so it should be easy to supplement the content and exercises with class lecture materials the book contains r script programs to demonstrate important topics and concepts covered in a statistics course including probability random sampling population distribution types role of the central limit theorem creation of sampling distributions for statistics and more the chapters contain t f quizzes to test basic knowledge of the topics covered in addition the book chapters contain numerous exercises with answers or solutions to the exercises provided the chapter exercises reinforce an understanding of the statistical concepts presented in the chapters an instructor can select any of the supplemental materials to enhance lectures and or provide additional coverage of concepts and topics in their statistics book

Understanding Statistics Using R

2013-01-24

although there are many books on mathematical finance few deal with the statistical aspects of modern data analysis as applied to financial problems this textbook fills this gap by addressing some of the most challenging issues facing financial engineers it shows how sophisticated mathematics and modern statistical techniques can be used in the solutions of concrete financial problems concerns of risk management are addressed by the study of extreme values the fitting of distributions with heavy tails the computation of values at risk var and other measures of risk principal component analysis pca smoothing and regression techniques are applied to the construction of yield and forward curves time series analysis is applied to the study of temperature options and nonparametric estimation nonlinear filtering is applied to monte carlo simulations option pricing and earnings prediction this textbook is intended for undergraduate students majoring in financial engineering or graduate students in a master in finance or mba program it is sprinkled with practical examples using market data and each chapter ends with exercises practical examples are solved in the r computing environment they illustrate problems occurring in the commodity energy and weather markets as well as the fixed income equity and credit markets the examples experiments and problem sets are based on the library rsafd developed for the purpose of the text the book should help quantitative analysts learn and implement advanced statistical concepts also it will be valuable for researchers wishing to gain experience with financial data implement and test mathematical theories and address practical issues that are often ignored or underestimated in academic curricula this is the new fully revised edition to the book statistical analysis of financial data in s plus rené carmona is the paul m wythes 55 professor of engineering and finance at princeton university in the department of operations research and financial engineering and director of graduate studies of the bendheim center for finance his publications include over one hundred articles and eight books in probability and statistics he was elected fellow of the institute of mathematical statistics in 1984 and of the society for industrial and applied mathematics in 2010 he is on the editorial board of several peer reviewed journals and book series professor carmona has developed computer programs for teaching statistics and research in signal analysis and financial engineering he has worked for many years on energy the commodity markets and more recently in environmental economics and he is recognized as a leading researcher and expert in these areas

Statistical Analysis of Financial Data in R

2013-12-13

this presentation of statistical methods features extensive use of graphical displays for exploring data and for displaying the analysis the authors demonstrate how to analyze data showing code graphics and accompanying computer listings they emphasize how to construct and interpret graphs discuss principles of graphical design and show how tabular results are used to confirm the visual impressions derived from the graphs many of the graphical formats are novel and appear here for the first time in print

Statistical Analysis and Data Display

2013-06-29

biostatistics with r is designed around the dynamic interplay among statistical methods their applications in biology and their implementation the book explains basic statistical concepts with a simple yet rigorous language the development of ideas is in the context of real applied problems for which step by step instructions for using r and r commander are

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provided topics include data exploration estimation hypothesis testing linear regression analysis and clustering with two appendices on installing and using r and r commander a novel feature of this book is an introduction to bayesian analysis this author discusses basic statistical analysis through a series of biological examples using r and r commander as computational tools the book is ideal for instructors of basic statistics for biologists and other health scientists the step by step application of statistical methods discussed in this book allows readers who are interested in statistics and its application in biology to use the book as a self learning text

Biostatistics with R

2011-12-15

thinking it presents descriptive inductive and explorative statistical methods and guides the reader through the process of quantitative data analysis in the experimental sciences and interdisciplinary research data analysis has become an integral part of any scientific study issues such as judging the credibility of data analyzing the data evaluating the reliability of the obtained results and finally drawing the correct and appropriate conclusions from the results are vital the text is primarily intended for undergraduate students in disciplines like business administration the social sciences medicine politics macroeconomics etc it features a wealth of examples exercises and solutions with computer code in the statistical programming language r as well as supplementary material that will enable the reader to quickly adapt all methods to their own applications

Introduction to Statistics and Data Analysis

2017-01-26

statistical tools for nonlinear regression presents methods for analyzing data it has been expanded to include binomial multinomial and poisson non linear models the examples are analyzed with the free software nls2 updated to deal with the new models included in the second edition the nls2 package is implemented in s plus and r several additional tools are included in the package for calculating confidence regions for functions of parameters or calibration intervals using classical methodology or bootstrap

Statistical Tools for Nonlinear Regression

2006-04-18

this book discusses examples in parametric inference with r combining basic theory with modern approaches it presents the latest developments and trends in statistical inference for students who do not have an advanced mathematical and statistical background the topics discussed in the book are fundamental and common to many fields of statistical inference and thus serve as a point of departure for in depth study the book is divided into eight chapters chapter 1 provides an overview of topics on sufficiency and completeness while chapter 2 briefly discusses unbiased estimation chapter 3 focuses on the study of moments and maximum likelihood estimators and chapter 4 presents bounds for the variance in chapter 5 topics on consistent estimator are discussed chapter 6 discusses bayes while chapter 7 studies some more powerful tests lastly chapter 8 examines unbiased and other tests senior undergraduate and graduate students in statistics and mathematics and those who have taken an introductory course in probability will greatly benefit from this book students are expected to know matrix algebra calculus probability and distribution theory before beginning this course presenting a wealth of relevant solved and unsolved problems the book offers an excellent tool for teachers and instructors who can assign homework problems from the exercises and students will find the solved examples hugely beneficial in solving the exercise problems

Examples in Parametric Inference with R

2016-05-20

the book provides an application oriented overview of functional analysis with extended and accessible presentations of key concepts such as spline basis functions data smoothing curve registration functional linear models and dynamic systems functional data analysis is put to work in a wide a range of applications so that new problems are likely to find close analogues in this book the code in r and matlab in the book has been designed to permit easy modification to adapt to new data structures and research problems

Functional Data Analysis with R and MATLAB

2009-06-29

chemometrics with r offers readers an accessible introduction to the world of multivariate statistics in the life sciences providing a complete description of the general data analysis paradigm from exploratory analysis to modeling to validation several more specific topics from the area of chemometrics are included in a special section the corresponding r code is provided for all the examples in the book scripts functions and data are available in a separate publicly available r package for researchers working in the life sciences the book can also serve as an easy to use primer on r

Chemometrics with R

2011-01-20

six sigma has arisen in the last two decades as a breakthrough quality management methodology with six sigma we are solving problems and improving processes using as a basis one of the most powerful tools of human development the scientific method for the analysis of data six sigma requires the use of statistical software being r an open source option that fulfills this requirement r is a software system that includes a programming language widely used in academic and research departments nowadays it is becoming a real alternative within corporate environments the aim of this book is to show how r can be used as the software tool in the development of six sigma projects the book includes a gentle introduction to six sigma and a variety of examples showing how to use r within real situations it has been conceived as a self contained piece therefore it is addressed not only to six sigma practitioners but also to professionals trying to initiate themselves in this management methodology the book may be used as a text book as well

Six Sigma with R

2012-07-04

<u>R______</u>

2018-07

this book is based on over a dozen years teaching a bayesian statistics course the material presented here has been used by students of different levels and disciplines including advanced undergraduates studying mathematics and statistics and students in graduate programs in statistics biostatistics engineering economics marketing pharmacy and psychology the goal of the book is to impart the basics of designing and carrying out bayesian analyses and interpreting and communicating the results in addition readers will learn to use the predominant software for bayesian model fitting r and openbugs the practical approach this book takes will help students of all levels to build understanding of the concepts and procedures required to answer real questions by performing bayesian analysis of real data topics covered include comparing and contrasting bayesian and classical methods specifying hierarchical models and assessing markov chain monte carlo output kate cowles taught suzuki piano for many years before going to graduate school in biostatistics her research areas are bayesian and computational statistics with application to environmental science she is on the faculty of statistics at the university of iowa

Applied Bayesian Statistics

2013-01-04

this book examines common tasks performed by business analysts and helps the reader navigate the wealth of information in r and its 4000 packages to create useful analytics applications includes interviews with corporate users of r and easy to use examples

R for Business Analytics

2012-09-14

this textbook provides a step by step introduction to the tools and principles of high dimensional statistics each chapter is complemented by numerous exercises many of them with detailed solutions and computer labs in r that convey valuable practical insights the book covers the theory and practice of high dimensional linear regression graphical models and inference ensuring readers have a smooth start in the field it also offers suggestions for further reading given its scope the

textbook is intended for beginning graduate and advanced undergraduate students in statistics biostatistics and bioinformatics though it will be equally useful to a broader audience

Fundamentals of High-Dimensional Statistics

2021-11-16

the most crucial ability for machine learning and data science is mathematical logic for grasping their essence rather than knowledge and experience this textbook approaches the essence of sparse estimation by considering math problems and building r programs each chapter introduces the notion of sparsity and provides procedures followed by mathematical derivations and source programs with examples of execution to maximize readers insights into sparsity mathematical proofs are presented for almost all propositions and programs are described without depending on any packages the book is carefully organized to provide the solutions to the exercises in each chapter so that readers can solve the total of 100 exercises by simply following the contents of each chapter this textbook is suitable for an undergraduate or graduate course consisting of about 15 lectures 90 mins each written in an easy to follow and self contained style this book will also be perfect material for independent learning by data scientists machine learning engineers and researchers interested in linear regression generalized linear lasso group lasso fused lasso graphical models matrix decomposition and multivariate analysis this book is one of a series of textbooks in machine learning by the same author other titles are statistical learning with math and r springer com gp book 9789811575679 statistical learning with math and python springer com gp book 9789811578762 sparse estimation with math and python

Sparse Estimation with Math and R

2021-08-04

this book focuses on tools and techniques for building regression models using real world data and assessing their validity a key theme throughout the book is that it makes sense to base inferences or conclusions only on valid models plots are shown to be an important tool for both building regression models and assessing their validity we shall see that deciding what to plot and how each plot should be interpreted will be a major challenge in order to overcome this challenge we shall need to understand the mathematical properties of the fitted regression models and associated diagnostic procedures as such this will be an area of focus throughout the book in particular we shall carefully study the properties of resi als in order to understand when patterns in residual plots provide direct information about model misspecification and when they do not the regression output and plots that appear throughout the book have been gen ated using r the output from r that appears in this book has been edited in minor ways on the book web site you will find the r code used in each example in the text

A Modern Approach to Regression with R

2009-03-11

2015-04-07

provides simple explanations of the important concepts in population and community ecology provides r code throughout to illustrate model development and analysis as well as appendix introducing the r language interweaves ecological content and code so that either stands alone supplemental web site for additional code

A Primer of Ecology with R

2009-06-02

this handbook incorporates new developments in automation it also presents a widespread and well structured conglomeration of new emerging application areas such as medical systems and health transportation security and maintenance service construction and retail as well as production or logistics the handbook is not only an ideal resource for automation experts but also for people new to this expanding field

Springer Handbook of Automation

2023-06-16

\mathbf{R}

2020-12

based on their extensive experience with teaching r and statistics to applied scientists the authors provide a beginner s guide to r the text covers how to download and install r import and manage data elementary plotting an introduction to functions advanced plotting and common beginner mistakes book cover

A Beginner's Guide to R

2009-07-01

a unique and comprehensive text on the philosophy of model based data analysis and strategy for the analysis of empirical data the book introduces information theoretic approaches and focuses critical attention on a priori modeling and the selection of a good approximating model that best represents the inference supported by the data it contains several new approaches to estimating model selection uncertainty and incorporating selection uncertainty into estimates of precision an array of examples is given to illustrate various technical issues the text has been written for biologists and statisticians using models for making inferences from empirical data

Model Selection and Multimodel Inference

2003-12-04

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