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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 deep learning survival analysis multiple testing 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 this second edition features new chapters on deep learning survival analysis and multiple testing as well as expanded treatments of naïve bayes generalized linear models bayesian additive regression trees and matrix completion r code has been updated throughout to ensure compatibility

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

handbook and reference guide for students and practitioners of statistical regression based analyses in r handbook of regression analysis with applications in r second edition is a comprehensive and up to date guide to conducting complex regressions in the r statistical programming language the authors thorough treatment of classical regression analysis in the first edition is complemented here by their discussion of more advanced topics including time to event survival data and longitudinal and clustered data the book further pays particular attention to methods that have become prominent in the last few decades as increasingly large data sets have made new techniques and applications possible these include regularization methods smoothing methods tree based methods in the new edition of the handbook the data analyst s toolkit is explored and expanded examples are drawn from a wide variety of real life applications and data sets all the utilized r code and data are available via an author maintained website of interest to undergraduate and graduate students taking courses in statistics and regression the handbook of regression analysis will also be invaluable to practicing data scientists and statisticians

this book follows a standard tutorial based approach which will teach you how to make a web app using r and shiny quickly and easily this book is for anybody who wants to produce interactive data summaries over the whether you want to share them with a few colleagues or the whole world you need no previous experience with r shiny html or css to begin using this book although you will need

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full of screenshots and examples this beginner s guide by example will teach you practically everything you need to know about r statistical application development from scratch you will begin learning the first concepts of statistics in r which is vital in this fast paced era and it is also a bargain as you do not need to do a preliminary course on the subject

this book provides an introduction to r programming and a summary of financial mathematics it is not always easy for graduate students to grasp an overview of the theory of finance in an abstract form for newcomers to the finance industry it is not always obvious how to apply the abstract theory to the real financial data they encounter introducing finance theory alongside numerical applications makes it easier to grasp the subject popular programming languages like c which are used in many financial applications are meant for general purpose requirements they are good for implementing large scale distributed systems for simultaneously valuing many financial contracts but they are not as suitable for small scale ad hoc analysis or exploration of financial data the r programming language overcomes this problem r can be used for numerical applications including statistical analysis time series analysis numerical methods for pricing financial contracts etc this book provides an overview of financial mathematics with numerous examples numerically illustrated using the r programming language

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

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