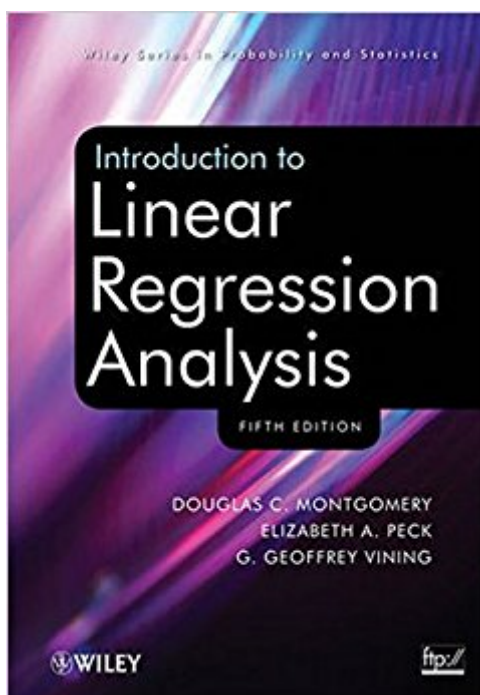The book was found

Introduction To Linear Regression Analysis

Synopsis

Praise for the Fourth Edition "As with previous editions, the authors have produced a leading textbook on regression." Ã¢â ¬â •Journal of the American Statistical Association A comprehensive and up-to-date introduction to the fundamentals of regression analysis Introduction to Linear Regression Analysis, Fifth Edition continues to present both the conventional and less common uses of linear regression in todayÃ¢â ¬â„¢s cutting-edge scientific research. The authors blend both theory and application to equip readers with an understanding of the basic principles needed to apply regression model-building techniques in various fields of study, including engineering, management, and the health sciences. Following a general introduction to regression modeling, including typical applications, a host of technical tools are outlined such as basic inference procedures, introductory aspects of model adequacy checking, and polynomial regression models and their variations. The book then discusses how transformations and weighted least squares can be used to resolve problems of model inadequacy and also how to deal with influential observations. The Fifth Edition features numerous newly added topics, including: Ã Â A chapter on regression analysis of time series data that presents the Durbin-Watson test and other techniques for detecting autocorrelation as well as parameter estimation in time series regression models Regression models with random effects in addition to a discussion on subsampling and the importance of the mixed model Tests on individual regression coefficients and subsets of coefficients Examples of current uses of simple linear regression models and the use of multiple regression models for understanding patient satisfaction data. In addition to Minitab, SAS, and S-PLUS, the authors have incorporated JMP and the freely available R software to illustrate the discussed techniques and procedures in this new edition. Numerous exercises have been added throughout, allowing readers to test their understanding of the material. Introduction to Linear Regression Analysis, Fifth Edition is an excellent book for statistics and engineering courses on regression at the upper-undergraduate and graduate levels. The book also serves as a valuable, robust resource for professionals in the fields of engineering, life and biological sciences, and the social sciences.

Book Information

Hardcover: 672 pages
Publisher: Wiley; 5 edition (April 9, 2012)
Language: English
ISBN-10: 0470542810

ISBN-13: 978-0470542811

Product Dimensions: 7.3 x 2.3 x 10.1 inches

Shipping Weight: 2.8 pounds (View shipping rates and policies)

Average Customer Review: 3.7 out of 5 stars   29 customer reviews

Best Sellers Rank: #30,140 in Books (See Top 100 in Books)   #4 inÃ Â Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Quality Control #15 inÃ Â Books > Textbooks > Engineering > Industrial Engineering   #176 inÃ Â Books > Textbooks > Science & Mathematics > Mathematics > Statistics

Customer Reviews

Ã¢â ¬Å"The book can be used for statistics and engineering courses on regression at the upper-undergraduate and graduate levels. It also serves as a resource for professionals in the fields of engineering, life and biological sciences, and the social sciences.Ã¢â ¬Â·Ã Â (Zentralblatt MATH, 1 October 2013) Ã Â

Praise for the Fourth Edition "As with previous editions, the authors have produced a leading textbook on regression." Ã¢â ¬â •Journal of the American Statistical Association A comprehensive and up-to-date introduction to the fundamentals of regression analysis Introduction to Linear Regression Analysis, Fifth Edition continues to present both the conventional and less common uses of linear regression in today's cutting-edge scientific research. The authors blend both theory and application to equip readers with an understanding of the basic principles needed to apply regression model-building techniques in various fields of study, including engineering, management, and the health sciences. Following a general introduction to regression modeling, including typical applications, a host of technical tools are outlined such as basic inference procedures, introductory aspects of model adequacy checking, and polynomial regression models and their variations. The book then discusses how transformations and weighted least squares can be used to resolve problems of model inadequacy and also how to deal with influential observations. The Fifth Edition features numerous newly added topics, including: A chapter on regression analysis of time series data that presents the Durbin-Watson test and other techniques for detecting autocorrelation as well as parameter estimation in time series regression models   Regression models with random effects in addition to a discussion on subsampling and the importance of the mixed model   Tests on individual regression coefficients and subsets of coefficients   Examples of current uses of simple linear regression models and the use of multiple regression models for understanding patient

satisfaction data   In addition to Minitab, SAS, and S-PLUS, the authors have incorporated JMP and the freely available R software to illustrate the discussed techniques and procedures in this new edition. Numerous exercises have been added throughout, allowing readers to test their understanding of the material, and a related FTP site features the presented data sets, extensive problem solutions, software hints, and PowerPoint slides to facilitate instructional use of the book. Introduction to Linear Regression Analysis, Fifth Edition is an excellent book for statistics and engineering courses on regression at the upper-undergraduate and graduate levels. The book also serves as a valuable, robust resource for professionals in the fields of engineering, life and biological sciences, and the social sciences.

If you want to trully understand Linear Regression this is your book.I am coursing a Masters degree in statistics and this has been really useful to understand what the teacher teaches in class.If you just want to see every command related to linear regression available on known software as a black box (trust me, software is going to provide a result, the thing is what you do with it) don't read this book, just google a few examples.

Required textbook for a class. It is fine.

Great book

Decent book but I'm agitated by the amount of errors and typos throughout. It's offensive that the authors are charging more for the 5th edition while they haven't corrected basic errors.

This book is required for my regression course. I love it so far! The concepts are described well and I like that it has example SAS and R code throughout. I've only just started using the text, so I can update when I've read more than the first 2 chapters.

Great book. Well written and very comprehensive. Contains examples in R and SAS along with datasets available online. Best regression book I've read yet.

The pages were distorted and the binding was loose. Disappointed. Had to be consent due to exam schedule coming up

Book arrived within five days, much sonner than expected. Very pleased with the book. New condiction, as described. Definitely will purchase any book from Book Storm again!

Plots, Transformations, and Regression: An Introduction to Graphical Methods of Diagnostic Regression Analysis (Oxford Statistical Science Series) Introduction to Linear Regression Analysis Applied Regression Analysis and Generalized Linear Models Regression to Times and Places (Meditation Regression) Forecasting, Time Series, and Regression (with CD-ROM) (Forecasting, Time Series, & Regression) Spiritual Progress Through Regression (Meditation Regression) Regression Through The Mirrors of Time (Meditation Regression) 3 TG/Age Regression Summer Stories (TG Age Regression Stories) Applied Linear Regression Models- 4th Edition with Student CD (McGraw Hill/Irwin Series: Operations and Decision Sciences) Linear Regression And Correlation: A Beginner's Guide Regression Methods in Biostatistics: Linear, Logistic, Survival, and Repeated Measures Models (Statistics for Biology and Health) TensorFlow for Deep Learning: From Linear Regression to Reinforcement Learning Applied Multiple Regression/Correlation Analysis for the Behavioral Sciences, 3rd Edition Applied Regression Analysis: A Second Course in Business and Economic Statistics (Book, CD-ROM & InfoTrac) A Second Course in Statistics: Regression Analysis (7th Edition) Applied Logistic Regression Analysis (Quantitative Applications in the Social Sciences) Regression Analysis by Example Regression Analysis using Microsoft Excel: A Quick Guide Applied Survival Analysis: Regression Modeling of Time to Event Data Linear Algebra and Its Applications plus New MyMathLab with Pearson eText -- Access Card Package (5th Edition) (Featured Titles for Linear Algebra (Introductory))