Introduction to Linear Regression Analysis

By Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining

Introduction to Linear Regression Analysis By Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining

Praise for the *Fourth Edition*

"As with previous editions, the authors have produced a leading textbook on regression."
—*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.

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.

Introduction to Linear Regression Analysis

By Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining

Introduction to Linear Regression Analysis By Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining

Praise for the *Fourth Edition*

"As with previous editions, the authors have produced a leading textbook on regression."
—*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.

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.

Introduction to Linear Regression Analysis By Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining Bibliography

- Sales Rank: #373042 in Books

- Brand: Brand: Wiley
- Published on: 2012-04-09
- Original language: English
- Number of items: 1
- Dimensions: 10.10" h x 2.30" w x 7.30" l, 2.77 pounds
- Binding: Hardcover
- 672 pages

Editorial Review

Users Review

From reader reviews:

Henry Major:

As people who live in the modest era should be up-date about what going on or facts even knowledge to make them keep up with the era and that is always change and advance. Some of you maybe will update themselves by reading through books. It is a good choice for you but the problems coming to a person is you don't know what one you should start with. This Introduction to Linear Regression Analysis is our recommendation to make you keep up with the world. Why, because book serves what you want and need in this era.

James Smith:

Nowadays reading books become more and more than want or need but also become a life style. This reading practice give you lot of advantages. Associate programs you got of course the knowledge the actual information inside the book that improve your knowledge and information. The details you get based on what kind of e-book you read, if you want attract knowledge just go with education books but if you want feel happy read one together with theme for entertaining like comic or novel. The actual Introduction to Linear Regression Analysis is kind of guide which is giving the reader erratic experience.

Brenda Blackmer:

Precisely why? Because this Introduction to Linear Regression Analysis is an unordinary book that the inside of the reserve waiting for you to snap this but latter it will shock you with the secret that inside. Reading this book close to it was fantastic author who also write the book in such incredible way makes the content inside of easier to understand, entertaining means but still convey the meaning totally. So , it is good for you because of not hesitating having this any more or you going to regret it. This book will give you a lot of positive aspects than the other book possess such as help improving your ability and your critical thinking way. So , still want to hesitate having that book? If I had been you I will go to the guide store hurriedly.

Patricia Stokes:

Reading can called mind hangout, why? Because if you find yourself reading a book especially book entitled Introduction to Linear Regression Analysis your head will drift away trough every dimension, wandering in most aspect that maybe unfamiliar for but surely might be your mind friends. Imaging every single word written in a reserve then become one contact form conclusion and explanation in which maybe you never get prior to. The Introduction to Linear Regression Analysis giving you yet another experience more than blown

away your mind but also giving you useful information for your better life in this particular era. So now let us show you the relaxing pattern at this point is your body and mind will be pleased when you are finished reading through it, like winning a game. Do you want to try this extraordinary investing spare time activity?

Download and Read Online Introduction to Linear Regression Analysis By Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining #UM57LD9ZNPG

Read Introduction to Linear Regression Analysis By Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining for online ebook

Introduction to Linear Regression Analysis By Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Introduction to Linear Regression Analysis By Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining books to read online.

Online Introduction to Linear Regression Analysis By Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining ebook PDF download

Introduction to Linear Regression Analysis By Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining Doc

Introduction to Linear Regression Analysis By Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining Mobipocket

Introduction to Linear Regression Analysis By Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining EPub

UM57LD9ZNPG: Introduction to Linear Regression Analysis By Douglas C. Montgomery, Elizabeth A. Peck, G. Geoffrey Vining