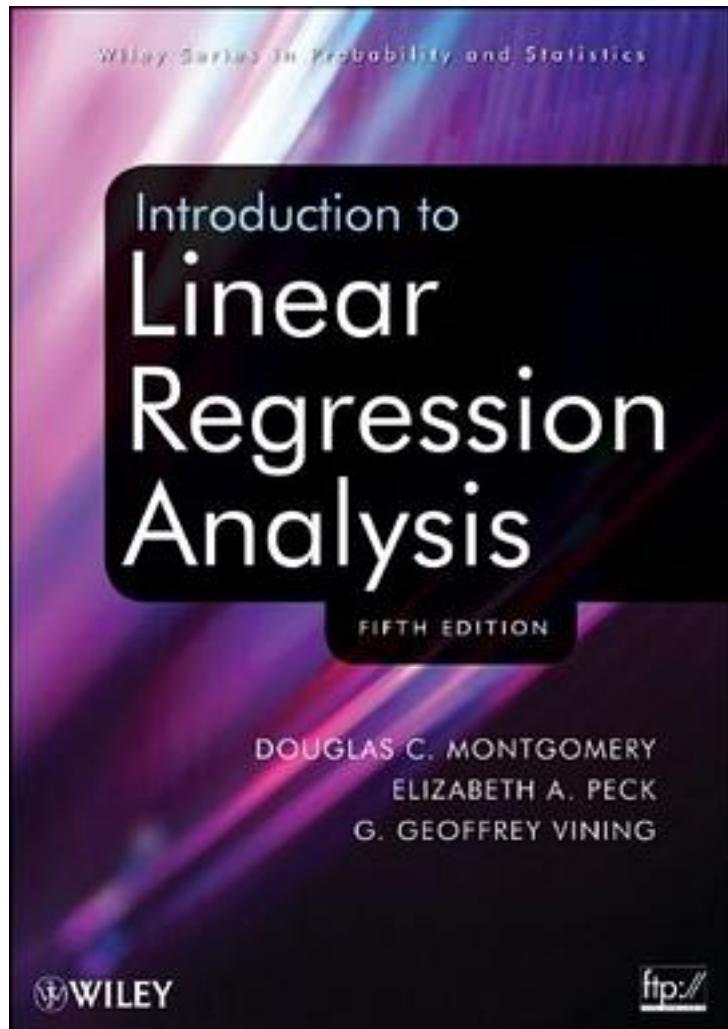


Introduction to Linear Regression Analysis



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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, 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.

作者介绍:

目录:

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标签

统计学

统计

Statistics

教材

回归分析

linear_Regression

Regression

Linear

评论

Appendix C

适合入门也可备参考，就是这第五版里的排版打印错误实在多了点，有些还相当影响阅读……

很详细但就是太贵了！

A very detailed textbook.

A very nice textbook for linear regression analysis. It talks about simple linear regression, multiple linear regression, some transformation techniques, residuals analysis and so on. The concepts are quite elementary. But this book has a lot of typo. Hope it will be corrected in the next edition.

SURVMETH 685

非常好的书就是排版垃圾啊 很详细很适合入门

650参考书

清晰

Reference for Python StasModel.

读了前面的几章，感觉很不错。经典的理论讲解的很透彻，同时给出了实际应用中需要注意的问题。

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书评

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