Chapter 3
Multiple Linear Regression Model

We consider the problem of regression when the study variable depends on more than one explanatory or independent variables, called a multiple linear regression model. This model generalizes the simple linear regression in two ways. It allows the mean function $E(y)$ to depend on more than one explanatory variables and to have shapes other than straight lines, although it does not allow for arbitrary shapes.

The linear model:

Let y denotes the dependent (or study) variable that is linearly related to k independent (or explanatory) variables $X_1, X_2, \ldots, X_k$ through the parameters $\beta_1, \beta_2, \ldots, \beta_k$ and we write

$$y = X_1\beta_1 + X_2\beta_2 + \ldots + X_k\beta_k + \varepsilon.$$

This is called the multiple linear regression model. The parameters $\beta_1, \beta_2, \ldots, \beta_k$ are the regression coefficients associated with $X_1, X_2, \ldots, X_k$ respectively and ε is the random error component reflecting the difference between the observed and fitted linear relationship. There can be various reasons for such difference, e.g., the joint effect of those variables not included in the model, random factors which can not be accounted for in the model etc.

Note that the jth regression coefficient β_j represents the expected change in y per unit change in the jth independent variable X_j. Assuming $E(\varepsilon) = 0$,

$$\beta_j = \frac{\partial E(y)}{\partial X_j}.$$

Linear model:

A model is said to be linear when it is linear in parameters. In such a case $\dfrac{\partial y}{\partial \beta_j}$ (or equivalently $\dfrac{\partial E(y)}{\partial \beta_j}$) should not depend on any $\beta's$. For example,

i) $y = \beta_0 + \beta_1 X$ is a linear model as it is linear in the parameters.

ii) $y = \beta_0 X^{\beta_1}$ can be written as

$\log y = \log \beta_0 + \beta_1 \log X$

$y^* = \beta_0^* + \beta_1 x^*$

which is linear in the parameter β_0^* and β_1, but nonlinear is variables $y^* = \log y, x^* = \log x$. So it is a linear model.

Chapter 3 The Multiple Linear Regression Model

Rudolf J. Freund,William J. Wilson,Ping Sa

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The Basics of Financial Econometrics Frank J. Fabozzi,Sergio M. Focardi,Svetlozar T. Rachev,Bala G. Arshanapalli,2014-03-04 An accessible guide to the growing field of financial econometrics As finance and financial products have become more complex financial econometrics has emerged as a fast growing field and necessary foundation for anyone involved in quantitative finance The techniques of financial econometrics facilitate the development and management of new financial instruments by providing models for pricing and risk assessment In short financial econometrics is an indispensable component to modern finance The Basics of Financial Econometrics covers the commonly used techniques in the field without using unnecessary mathematical statistical analysis It focuses on foundational ideas and how they are applied Topics covered include regression models factor analysis volatility estimations and time series techniques Covers the basics of financial econometrics an important topic in quantitative finance Contains several chapters on topics typically not covered even in basic books on econometrics such as model selection model risk and mitigating model risk Geared towards both practitioners and finance students who need to understand this dynamic discipline but may not have advanced mathematical training this book is a valuable resource on a topic of growing importance **Bayesian Methods in Epidemiology** Lyle D. Broemeling,2013-08-13 Written by a biostatistics expert with over 20 years of experience in the field Bayesian Methods in Epidemiology presents statistical methods used in epidemiology from a Bayesian viewpoint It employs the software package WinBUGS to carry out the analyses and offers the code in the text and for download online The book examines study designs that **Applied Regularization Methods for the Social Sciences** Holmes Finch,2022-03-08 Researchers in the social sciences are faced with complex data sets in which they have relatively small samples and many variables high dimensional data Unlike the various technical guides currently on the market Applied Regularization Methods for the Social Sciences provides and overview of a variety of models alongside clear examples of hands on application Each chapter in this book covers a specific application of regularization techniques with a user friendly technical description followed by examples that provide a thorough demonstration of the methods in action Key Features Description of regularization methods in a user friendly and easy to read manner Inclusion of regularization based approaches for a variety of statistical analyses commonly used in the social sciences including both univariate and multivariate models Fully developed extended examples using multiple software packages including R SAS and SPSS Website containing all datasets and software scripts used in the examples Inclusion of both frequentist and Bayesian regularization approaches Application exercises for each chapter that instructors could use in class and independent researchers could use to practice what they have learned from the book

Regression Analysis by Example Samprit Chatterjee,Ali S. Hadi,2006-10-20 The essentials of regression analysis through practical applications Regression analysis is a conceptually simple method for investigating relationships among variables Carrying out a successful application of regression analysis however requires a balance of theoretical results empirical rules

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Statistical Concepts - A Second Course Debbie L. Hahs-Vaughn,Richard G. Lomax,2020-01-17 Statistical Concepts A Second Course presents the last 10 chapters from An Introduction to Statistical Concepts Fourth Edition Designed for second and upper level statistics courses this book highlights how statistics work and how best to utilize them to aid students in the analysis of their own data and the interpretation of research results In this new edition Hahs Vaughn and Lomax discuss sensitivity specificity false positive and false negative errors Coverage of effect sizes has been expanded upon and more organizational features to summarize key concepts have been included A final chapter on mediation and moderation has been added for a more complete presentation of regression models In addition to instructions and screen shots for using SPSS new to this edition is annotated script for using R This book acts as a clear and accessible instructional tool to help readers fully understand statistical concepts and how to apply them to data It is an invaluable resource for students undertaking a course in statistics in any number of social science and behavioral science disciplines **Statistical Analysis of Profile Monitoring** Rassoul Noorossana,Abbas Saghaei,Amirhossein Amiri,2011-09-09 A one of a kind presentation of the major achievements in statistical profile monitoring methods Statistical profile monitoring is an area of statistical quality control that is growing in significance for researchers and practitioners specifically because of its range of applicability across various service and manufacturing settings Comprised of contributions from renowned academicians and practitioners in the field Statistical Analysis of Profile Monitoring presents the latest state of the art research on the use of control charts to monitor process and product quality profiles The book presents comprehensive coverage of profile monitoring definitions techniques models and application examples particularly in various areas of engineering and statistics The book begins with

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regression textbook such as nonlinear regression and generalized linear models yet critical to engineering students and professionals have also been included The new critical role of the computer in regression analysis is reflected in the book s expanded discussion of regression diagnostics where major analytical procedures now available in contemporary software packages such as SAS Minitab and S Plus are detailed The Appendix now includes ample background material on the theory of linear models underlying regression analysis Data sets from the book extensive problem solutions and software hints are available on the ftp site For other Wiley books by Doug Montgomery visit our website at www wiley com college montgomery

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Graphs and State-space Neural Networks Ajay Kumar Singh (Graduate of Michigan State University),2006

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