Quantitative Methods in Population Health: Extensions of Ordinary Regression

Mari Palta
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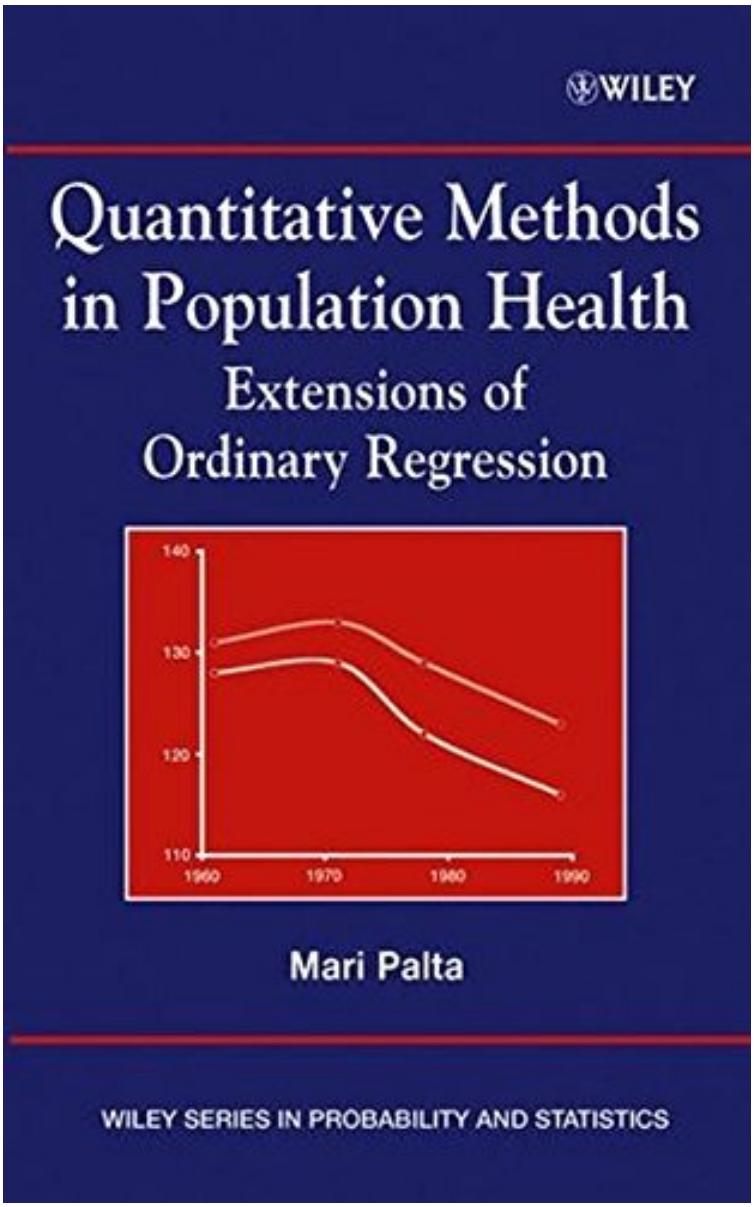

#4137203 in Books Mari Palta 2003-08-04Original language:EnglishPDF # 1 9.51 x .87 x 6.36l, 1.34 #File Name: 0471455059311 pagesQuantitative Methods in Population Health Extensions of Ordinary Regression | File size: 21.Mb

Mari Palta : Quantitative Methods in Population Health: Extensions of Ordinary Regression before purchasing it in order to gage whether or not it would be worth my time, and all praised Quantitative Methods in Population Health: Extensions of Ordinary Regression:

0 of 0 people found the following review helpful. Five StarsBy Ana I. VazquezFantastic book0 of 0 people found the following review helpful. Excellent book forBy Student_PhDIn her book Dr. Palta walks the reader through the theory but not in an overwhelming way and most importantly, provides the reader with examples that utilize real data. SAS codes are provided for those examples, making application of the methods easier. An excellent advanced graduate level Statistics book for students and researchers who have to deal with data in Population Health, Epidemiology, Health Services Research and related areas.2 of 2 people found the following review helpful. A useful guide to advanced regression analysisBy A CustomerThis book is a useful guide to advanced topics in applied regression analysis. The style is accessible and it is helpful to see both the background and how to run the analyses in SAS. The book also addresses more issues of interpretation of results than is common in other statistics books. The range of topics matches well with problems I encounter in analyzing data from my epidemiologic research.

Each topic starts with an explanation of the theoretical background necessary to allow full understanding of the technique and to facilitate future learning of more advanced or new methods and software Explanations are designed to assume as little background in mathematics and statistical theory as possible, except that some knowledge of calculus is necessary for certain parts. SAS commands are provided for applying the methods. (PROC REG, PROC MIXED, and PROC GENMOD) All sections contain real life examples, mostly from epidemiologic research First chapter includes a SAS refresher

"I enjoyed reading this book and I recommend[it]." (Journal of Statistical Computation and Simulation, July 2005) "The book is well writtena timely book that appears to cover a gap in existing literature." (Journal of the American Statistical Association, June 2005) provides an accessible guide for students in an applied statistics sequence as well as for practising researchers and professionals... (Zentralblatt Math, Vol.1038, No.13, 2004) "It is highly recommended for academic and research libraries supporting programs of demography, public health, and other interdisciplinary programs related to population health. (E-STREAMS, August 2004) ...assembles the information...investigators need most often in the course of several long-term population-based observational studies. (Quarterly of Applied Mathematics, Vol. LXII, No. 1, March 2004) "...this book...provides the most pages of illustrations relative to pages of text of any book that I can recall...a fantastic book for practitioners..." (Technometrics, Vol. 46, No. 1, February 2004)From the Back CoverA users guide to advanced statistical techniques for nonstatisticians The study of population health often involves the use of observational data from existing data sets, complex survey designs and longitudinal follow-up. Ordinary regression analysis, familiar to most researchers and practitioners is inadequate for analyzing such data and answering important questions about the relationship of risk factors to health. Nonstatisticians such as epidemiologists and health services researchers require a working knowledge of the sophisticated modeling techniques used by professional statisticians. Quantitative Methods in Population Health provides an accessible guide for students in an applied statistics sequence as well as for practicing researchers and professionals. Mari Paltas timely text assumes some background in mathematics and in applied statistics and regression analysis, but little knowledge of statistical theory. The Statistical Analysis System (SAS) is an ubiquitous tool in the field, and some basic knowledge of its structure is assumed. Each topic starts with an explanation of the theoretical background that is necessary for understanding the technique as well as for establishing a basis to adopt more advanced methods or software in the future. The author endeavors to keep the material immediately applicable by providing detailed instructions for how to run and interpret procedures in SAS. Topics covered include: Regression analysis with weights Unequal variance Correlated and longitudinal outcomes Mixed effects Generalized linear models Generalized estimating equations SAS commands for applying the methodsincluding PROC REG, PROC MIXED, and PROC GENMODare provided, and each section includes real-life examples. Quantitative Methods in Population Health proves a seamless meshing of the theoretical and practical in this vital field.About the AuthorMARI PALTA, PHD, is a professor in the Department of Population Health Sciences and Biostatistics and Medical Information at the University of Wisconsin-Madison