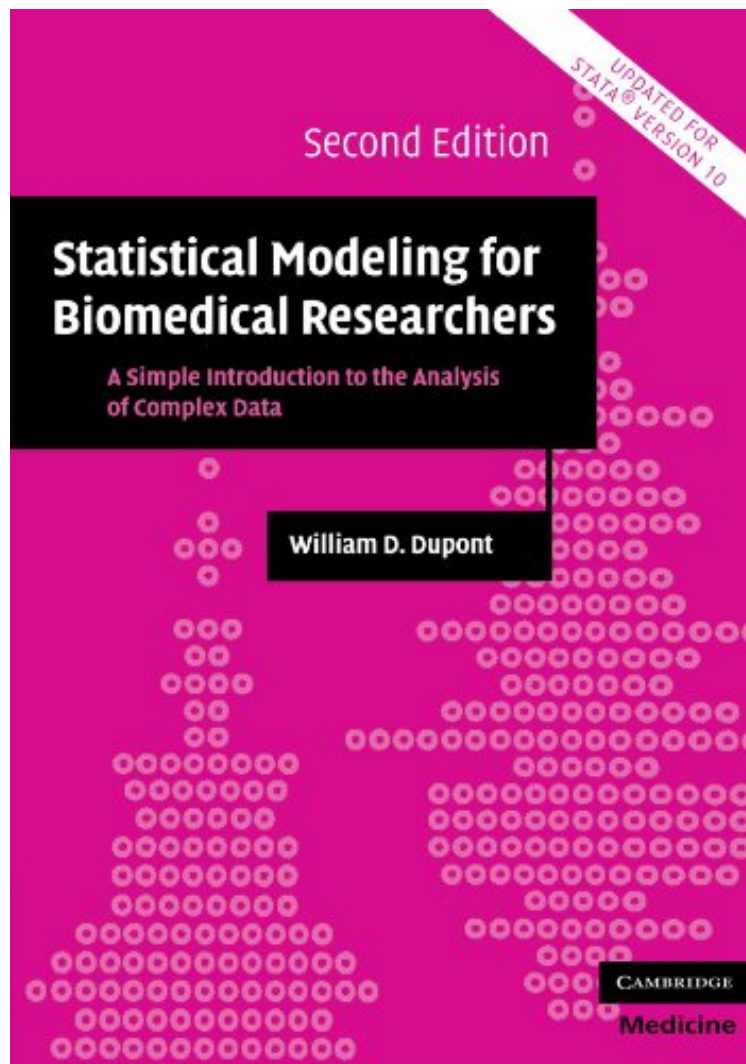


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Statistical Modeling for Biomedical Researchers: A Simple Introduction to the Analysis of Complex Data (Cambridge Medicine (Paperback))

William D. Dupont

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William D. Dupont : Statistical Modeling for Biomedical Researchers: A Simple Introduction to the Analysis of Complex Data (Cambridge Medicine (Paperback)) before purchasing it in order to gage whether or not it would be worth my time, and all praised Statistical Modeling for Biomedical Researchers: A Simple Introduction to the Analysis of Complex Data (Cambridge Medicine (Paperback)):

0 of 0 people found the following review helpful. An excellent book for new and seasoned researchers alike!By Ariel LindenIn general, there are 3 types of books on statistics: (1) Those that describe general statistical methods (2) those that describe specific (esoteric) models, and (3) those that teach "how to" implement statistical models in specific software packages.In this book, William D. Dupont does an excellent job of providing sufficient descriptions of each of the major statistical modeling approaches along with the specific Stata software commands to make this a rather complete book. Topics include simple and multiple regression models of the various types (linear, logistic, Poisson) as well as survival and longitudinal modeling approaches.While as an experienced researcher these concepts are not new to me, what I found the most helpful was Dr. Dupont's thoughtful approach to choosing, testing, and displaying the results of each method. On countless occasions I found myself thinking "huh, that was a clever idea."This book can serve as an excellent text for an intermediate biostatistics course (preferably a class that uses Stata), as well as serve as a resource to experienced researchers who may want to find streamlined approaches to implementing these models in Stata.0 of 0 people found the following review helpful. Practical Introduction to StataBy Richard PhamThis is a highly recommended book if you are trying to use Stata in biomedical research. This covers most of the standard procedures (t-tests, linear regression, multiple comparisons, logistic and other contingency table methods, Cox PH, Poisson (log-linear), GEE) and a reasonable amount of noncalculus statistical formula derivation to show what goes on inside the box. ANOVA is relegated to the back of the book, because in the author's opinion, the amount of control needed to pull off these studies is not normally feasible and GLM can cover the same ground. There isn't any other book that addresses GEE as comprehensively as this book. The Vittinghoff book is also recommended as a companion piece to give a more in-depth approach to regression topics.0 of 0 people found the following review helpful. Good guideBy Luis OrozcoIf you are working with Stata this book will be a good help to understand the basic concepts of the multivariate analysis.

For biomedical researchers, the new edition of this standard text guides readers in the selection and use of advanced statistical methods and the presentation of results to clinical colleagues. It assumes no knowledge of mathematics beyond high school level and is accessible to anyone with an introductory background in statistics. The Stata statistical software package is used to perform the analyses, in this edition employing the intuitive version 10. Topics covered include linear, logistic and Poisson regression, survival analysis, fixed-effects analysis of variance, and repeated-measure analysis of variance. Restricted cubic splines are used to model non-linear relationships. Each method is introduced in its simplest form and then extended to cover more complex situations. An appendix will help the reader select the most appropriate statistical methods for their data. The text makes extensive use of real data sets available online through Vanderbilt University.

"This is a welcome edition of Dupont's book. The topics are comprehensive and well developed." Ray Hoffmann, The Medical College of Wisconsin for the Teaching Statistics in Health Sciences Newsletter"Although readers without prior training in biostatistics may benefit from the book, those with knowledge of introductory statistics would definitely benefit more. Traditional biomedical researchers may have a bit of difficulty in understanding some complex concepts without further communication with biostatisticians. Thus, this is an ideal textbook for non-biostatistics graduate students for learning advanced biostatistics. It also serves as a good reference for biostatisticians in collaborative work." Doody's Service"an excellent training and reference tool for young (as well as experienced) epidemiologic and biomedical researchers. It provides a comprehensive overview of traditional and novel approaches to model and interpret complex clinical, epidemiologic, and biomedical databases. In addition, an excellent and popular statistical package (Stata), widely used in the epidemiologic research population, is presented and demonstrated by using real data sets." Stanley P. Azen, American Journal of EpidemiologyAbout the AuthorWilliam D. Dupont is Professor of Biostatistics and Preventive Medicine at the Vanderbilt University School of Medicine, Nashville, Tennessee.