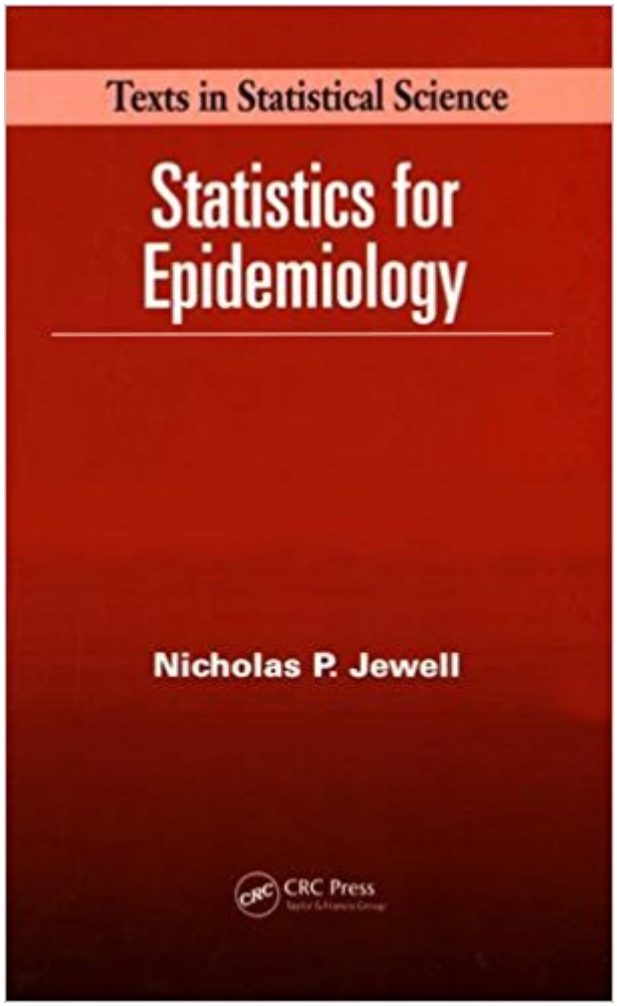
Statistics For Epidemiology



Synopsis

Statistical ideas have been integral to the development of epidemiology and continue to provide the tools needed to interpret epidemiological studies. Although epidemiologists do not need a highly mathematical background in statistical theory to conduct and interpret such studies, they do need more than an encyclopedia of "recipes." Statistics for Epidemiology achieves just the right balance between the two approaches, building an intuitive understanding of the methods most important to practitioners and the skills to use them effectively. It develops the techniques for analyzing simple risk factors and disease data, with step-by-step extensions that include the use of binary regression. It covers the logistic regression model in detail and contrasts it with the Cox model for time-to-incidence data. The author uses a few simple case studies to guide readers from elementary analyses to more complex regression modeling. Following these examples through several chapters makes it easy to compare the interpretations that emerge from varying approaches. Written by one of the top biostatisticians in the field, Statistics for Epidemiology stands apart in its focus on interpretation and in the depth of understanding it provides. It lays the groundwork that all public health professionals, epidemiologists, and biostatisticians need to successfully design, conduct, and analyze epidemiological studies.

Book Information

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Customer Reviews

"Jewell’s book can certainly be included in any group of useful books on statistics in epidemiology. It

actually might be the one with which I would start." - Technometrics, February 2005, Vol. 47, No. 1 "This is a useful and thought-provoking book written by an expert in the field, providing a very valuable supplement to more introductory texts as well as a guide to more advanced sources." - Journal of the Royal Statistics Society "Good points of the book are the exercises, comments and further reading at the end of each chapter, the availability of the data sets usedand the extensive discussion of confoundingthis is a good, well-written piece of work." Pharmaceutical Statistics, 2004 'This book is excellent; a real breakthrough in texts on statistics in epidemiology, especially in its attention to causation and bias'. -Sander Greenland, Department of Epidemiology, UCLA "Using examples, this experienced statistician identifies scientific issues and clearly links them to statistical approaches. Statistical theory and formality are grounded in manageable yet realistic examples. Coverage includes the basics and important topics such as measurement error and causal analysis. The book has excellent references, an informative index and glossary." -ISI Short Book Reviews, August 2004

I took a Categorical Data Analysis class w/the author at UC Berkeley. Awesome book and awesome course-- I highly recommend checking out the free full webcast on YouTube as a supplement to the text.

This text is written as a non-technical (although by no means superficial) overview of some statistical methods. It is a joy to read, and gets at the heart of the matter on many topics I'd previously been unclear on. The book was recommended to me as a reference, and I'm glad I took the advice.

It is what it is. Epi stats book. Helpful for grad students and professionals that need a little help with stats.

This is a perfect book for a person who do not know any epidemiology to understand it easily in such a piece with only more than 300 pages. I do recommend it!

The author's style is more conversational than most statistics books I've read. He makes complex concepts relatively easy to understand.

The book is old

I had a chance to read this book cover to cover. All I can say is "absolutely outstanding", short of calling it a historical masterpiece in the field. Very rarely do I encounter an epidemiology or biostatistic textbook that reads so well. It is optimally reader friendly; the author appears to have such a talent in explaining some most sophisticated epidemiological and statistical concepts in such a simplified language. Yet he does not sacrifice the inclusion of some very advanced epidemiological and statistical concepts. New concepts such as causal graphs and instrumental variables are also included and explained beautifully. I strongly recommend this book to all early to intermediate graduate students majoring in Epidemiology. Established epidemiologists may wish to read this book to refresh and update their knowledge. I hope the author writes more textbooks with the same style.

This book is a hybrid, part epidemiology and part statistics. It is a resource for those that want to DO epidemiologic studies and ensure that they are performing and interpreting the statistics correctly. Jewell does all the little things right: he delivers the message in plain English, he explains thoroughly the foundations of the various epidemiologic measures of association, and he points out the pitfalls and potential misapplications of the presented statistical tools. The chapters on confounding and interaction are the clearest and the best that I have read. I endorse this book whole-heartedly

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