Statistical Models in Epidemiology

David Clayton, Michael Hills
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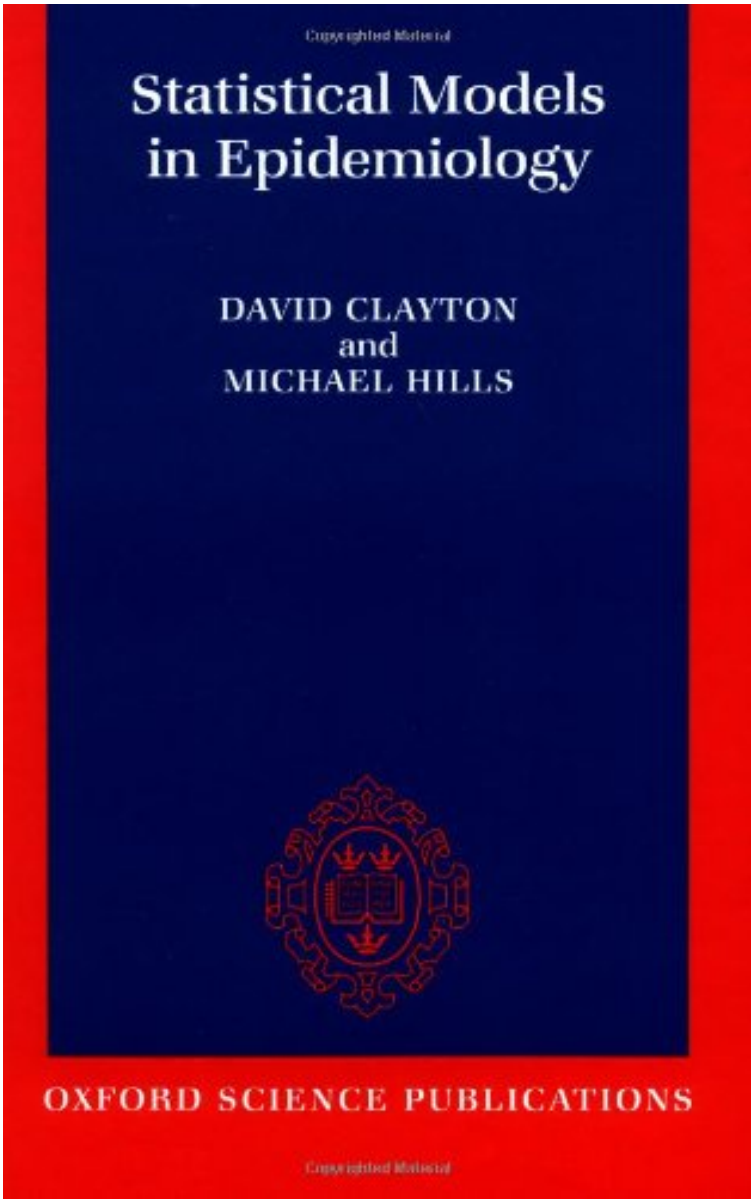

#2282612 in Books 1993-08-05Ingredients: Example IngredientsOriginal language:EnglishPDF # 1 6.38 x 1.08 x 9.50l, 1.53 #File Name: 0198522215376 pages | File size: 30.Mb

David Clayton, Michael Hills : Statistical Models in Epidemiology before purchasing it in order to gage whether or not it would be worth my time, and all praised Statistical Models in Epidemiology:

0 of 0 people found the following review helpful. Excellent Text on FoundationsBy Soluman B CulverThis is an excellent textbook which provides foundational principles for much of the mathematics of epidemiology. The book is

fundamentally one about understanding concepts, rather than practical applications. Beginning with the concept of likelihood models, the authors explain parameter estimation, survival analysis, and regression models in a way that is simple and intuitive. Recommended for any researcher in epidemiology as well as interested scientists and clinicians.3 of 3 people found the following review helpful. Outstanding mongraph for biostatisticiansBy Stefan MaI find all other so-called biostatistics books are helplessuntil I have read this book. This book is written based onClayton and Hills's past experience in applying statisticsin their studies. They can illustrate most difficult conceptsby very simple examples and words which are totally differntthan other text and teaching books. For other books, youcan learn a lot of various statistical techniques, but youcannot understand what is the core idea behind the statistics.You may get it from this book.1 of 1 people found the following review helpful. Clearly illustrates challenging conceptsBy SunnyThe purpose of this book is to illustrate fundamental concepts involved in statistical epidemiology. It is not a data analysis book. Very few texts in statistics are able to clearly explain difficult concepts (in my opinion). This book is a rare exception (and Agresti, 2002, 2007). For example, it made it easy to understand conditional likelihood. In addition, the text provides problems throughout each section, and provides detailed solutions for each one.

The most important concept in statistics is the probability model. Only by fully understanding this model can one fully understand statistical analysis. Utilizing models in epidemiology, the authors of this self-contained account have chosen to emphasize the role of likelihood. This approach to statistics is both simple and intuitively satisfying. More complex problems can be tackled by natural extensions of the simple methods. This exploration of the statistical basis of epidemiology has been written specifically for professionals and graduate students in epidemiology, clinical epidemiology, or biostatistics. The simple prerequisite--basic training in biology--assumes no previous knowledge and the mathematics is deliberately kept at a manageable level. Based on a highly successful course by two internationally known authors, this book explains the essentials of statistics for all epidemiologists.

'Unlike many textbooks in epidemiology, there is no long wordy preamble. The characteristic style is set straight away. The book is also highly successful in presenting a unified approach. What is also striking, is that the authors have managed to say something useful and clear about many of the all too numerous minor problems that are inevitably encountered in practice. In my view this is simply an excellent text.' Andrew Pickles, Institute of Psychiatry, London, Statistical Methods in Medical Research 1994:3`an excellent text which provides the simplest and most logical exposition that I have seen of the statistical foundations for current techniques for analysing epidemiological data, and provides an excellent preparation for more detailed treatments' Australasian Epidemiological Association News, 12/94`provides probably the most coherent and logical exposition of the use of statistical models in epidemiology that is currently available ... an excellent text which provides the simplest and most logical exposition that I have seen of the statistical foundations for current techniques for analysing epidemiological data, and provides an excellent preparation for more detailed treatments.' AEA News 12/94`Clayton and Hill have filled the gap with an interesting text which is based mainly on probability models and likelihood. This is an unusual approach. but is precisely what is missing in many other textbooks for epidemiologists ... this is an important text for those interested in understanding statistical reasoning in epidemiology.' Maria Blettner, International Journal of EpidemiologyThe book covers virtually the whole field of basic epidemiological techniques. They are summarized clearly and succinctly ... Reading this book made me feel that I was sitting listening to someone who has a wide grasp of practical modelling, a firm basis in theory and a gift for clear explanation. It is difficult to recommend it too highly.`The authors have produced a text that will be extremely valuable to those teaching epidemiologic methods... Statistical Models in Epidemiology courageously cuts new paths into the traditional epidemiologic approach to statistical training.' Journal of the American Statistics Association`this book gives some very clear explanations ... Each point is well illustrated with small examples and there are exercises throughout. It is pleasing to see full solution to all the exercises.' Public Health (1994) 108About the Authoris City's official journalist