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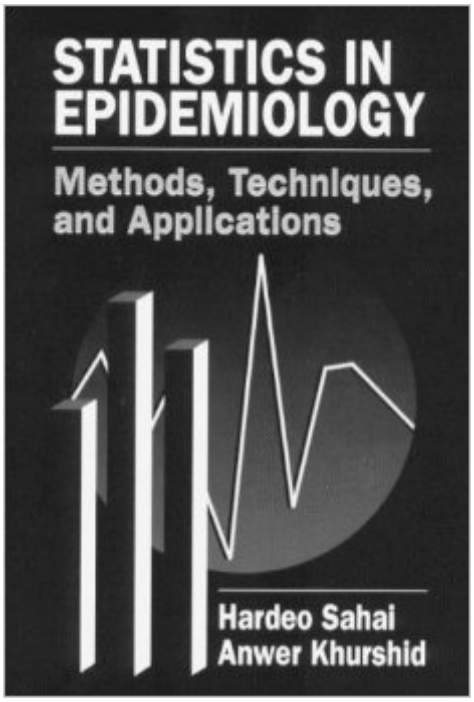
Statistics In Epidemiology: Methods, Techniques And Applications



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Synopsis

Epidemiologic studies provide research strategies for investigating public health and scientific questions relating to the factors that cause and prevent ailments in human populations. Statistics in Epidemiology: Methods, Techniques and Applications presents a comprehensive review of the wide range of principles, methods and techniques underlying prospective, retrospective and cross-sectional approaches to epidemiologic studies. Written for epidemiologists and other researchers without extensive backgrounds in statistics, this new book provides a clear and concise description of the statistical tools used in epidemiology. Emphasis is given to the application of these statistical tools, and examples are provided to illustrate direct methods for applying common statistical techniques in order to obtain solutions to problems. Statistics in Epidemiology: Methods, Techniques and Applications goes beyond the elementary material found in basic epidemiology and biostatistics books and provides a detailed account of techniques:

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Customer Reviews

I am somewhat surprised with the critique of the previous reader who has made some thoughtless negative comments on this book without any basis to back up his arguments. I have found this book to be extremely useful in my work at the Food and Drug Administration in Washington D.C. It contains so many excellent features that make it a highly recommended text for students and practicing quantitative epidemiologists. Instead of enumerating its strengths and virtues in my own words, I'll simply quote excerpts from some reviews that have appeared in some top journals in the fieldJournal of the American Statistical Association: " This book is an excellent review of

fundamental and advanced statistical methods for the analysis of epidemiologic data. The authors cover the derivations of important epidemiologic indices with substantial mathematical detail and applications to various study designs. For instance, they define risk differences, risk ratios, and odds ratios for use in prospective or cohort studies: odds ratios for retrospective or case-control studies (both matched and not); and a variety of prevalence measures for both cross-sectional studies and for stratified analyses. In each case, point and interval estimates are defined. Other topics include multivariate models such as logistic regression and proportional hazards regression, incidence indices for person-time data, and attributable risk... The authors include 14 appendixes that support the mathematical rigor in the text, which is already highly mathematically detailed. Also included are 50 exercises that are oriented toward the chapter topics and complement the numerous examples in the text...

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