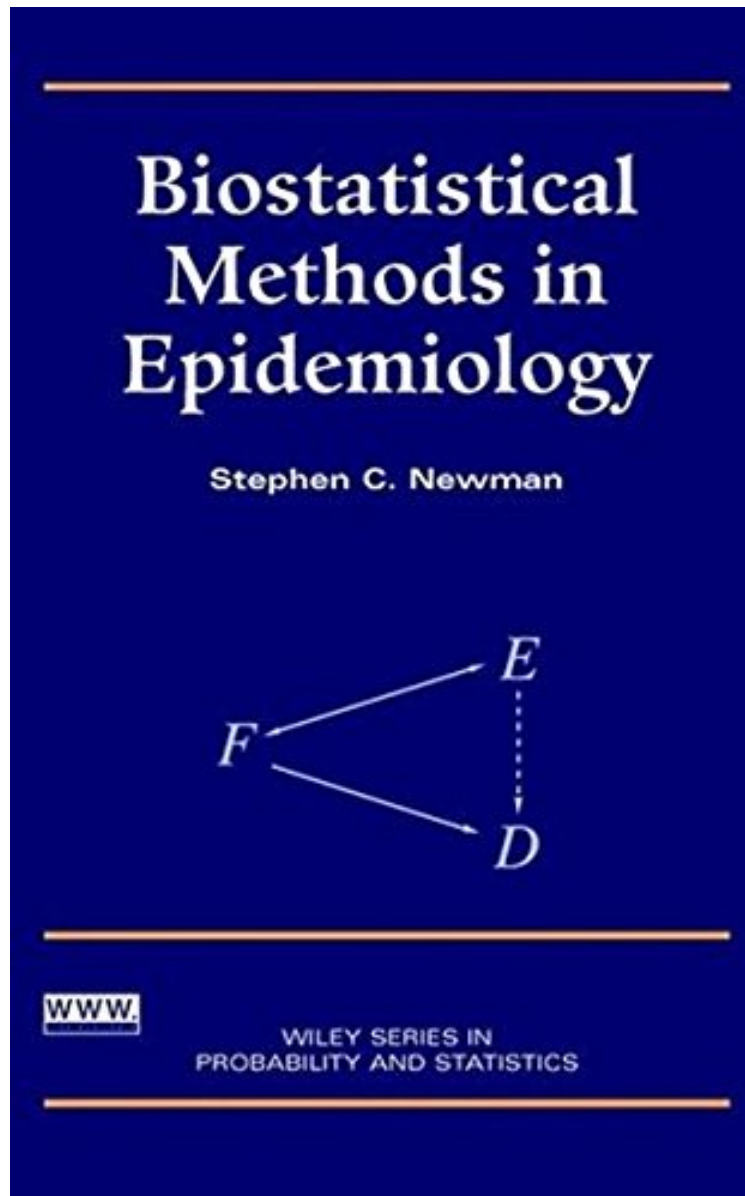


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## Biostatistical Methods in Epidemiology

*Stephen C. Newman, Newman*

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#3438802 in Books Stephen C Newman 2001-07-27Original language:EnglishPDF # 1 9.27 x .96 x 6.44l, 1.50 #File Name: 0471369144400 pagesBiostatistical Methods in Epidemiology | File size: 39.Mb

**Stephen C. Newman, Newman : Biostatistical Methods in Epidemiology** before purchasing it in order to gage whether or not it would be worth my time, and all praised Biostatistical Methods in Epidemiology:

4 of 4 people found the following review helpful. Interesting and difficult bookBy Ausprey EagleThis was a difficult book for me to read and review and I think it would be tough to write as well. Biostatistics is taught generally devoid

of its epidemiological context but this book tries to break a new ground and tries to show use of biostatistics in derivations of epidemiology measures. This makes the book theoretical which is what I was looking for. It successfully breaks a new ground in some places particularly on confounding where author summarizes recent literature neatly. However, other chapters require knowledge of Maximum Likelihood (ML) methods which are covered in an intermediate biostatistic texts like Larsen and Marx. This book is interesting because its the only book which I have found which covers the ML methods for odds ratio but this is the only book which covers them. Disappointingly, the author skips derivations and reaches straight to the results which is frustrating. Since this is textbook for advanced students and author assumes knowledge of ML methods, eschewing details and derivations is sad.

An introduction to classical biostatistical methods in epidemiology *Biostatistical Methods in Epidemiology* provides an introduction to a wide range of methods used to analyze epidemiologic data, with a focus on nonregression techniques. The text includes an extensive discussion of measurement issues in epidemiology, especially confounding. Maximum likelihood, Mantel-Haenszel, and weighted least squares methods are presented for the analysis of closed cohort and case-control data. Kaplan-Meier and Poisson methods are described for the analysis of censored survival data. A justification for using odds ratio methods in case-control studies is provided. Standardization of rates is discussed and the construction of ordinary, multiple decrement and cause-deleted life tables is outlined. Sample size formulas are given for a range of epidemiologic study designs. The text ends with a brief overview of logistic and Cox regression. Other highlights include: Many worked examples based on actual data Discussion of exact methods Recommendations for preferred methods Extensive appendices and references *Biostatistical Methods in Epidemiology* provides an excellent introduction to the subject for students, while also serving as a comprehensive reference for epidemiologists and other health professionals. For more information, visit [www.wiley.com/mathematics](http://www.wiley.com/mathematics)

besides being a reference book (it)includes an interesting reading matter (*Statistics in Medicine*, Vol.23, No.23, 15th December 2004) "Introduces methods used to analyze epidemiologic data, with a focus on non-regression techniques." (*SciTech Book News*, Vol. 25, No. 4, December 2001) "...well suited as an introductory text.... I also recommend this book to practitioners...students, health professionals and epidemiologistsall these groups will find it useful." (*Statistical Methods in Medical Research*, Vol. 11, No. 1, 2002) "This book has much to recommend it...a useful resource on basic techniques and a supplement to other texts for an intermediate-level audience." (*Epidemiology*, Vol. 13, No. 3, May 2002) "offers a very thorough presentation...profuse and excellent illustrations." (*Technometrics*, Vol. 44, No. 3, August 2002) "...both a pleasure to read and an excellent reference...researchers and students alike will benefit from having this book on their shelves..." (*Journal of the American Statistical Association*, March 2003)From the Back CoverAn introduction to classical biostatistical methods in epidemiology *Biostatistical Methods in Epidemiology* provides an introduction to a wide range of methods used to analyze epidemiologic data, with a focus on nonregression techniques. The text includes an extensive discussion of measurement issues in epidemiology, especially confounding. Maximum likelihood, Mantel-Haenszel, and weighted least squares methods are presented for the analysis of closed cohort and case-control data. Kaplan-Meier and Poisson methods are described for the analysis of censored survival data. A justification for using odds ratio methods in case-control studies is provided. Standardization of rates is discussed and the construction of ordinary, multiple decrement and cause-deleted life tables is outlined. Sample size formulas are given for a range of epidemiologic study designs. The text ends with a brief overview of logistic and Cox regression. Other highlights include: \* Many worked examples based on actual data \* Discussion of exact methods \* Recommendations for preferred methods \* Extensive appendices and references *Biostatistical Methods in Epidemiology* provides an excellent introduction to the subject for students, while also serving as a comprehensive reference for epidemiologists and other health professionals. For more information, visit [www.wiley.com/mathematics](http://www.wiley.com/mathematics)About the AuthorSTEPHEN C. NEWMAN, MD, MSc, is Professor of Psychiatry at the University of Alberta, Canada.