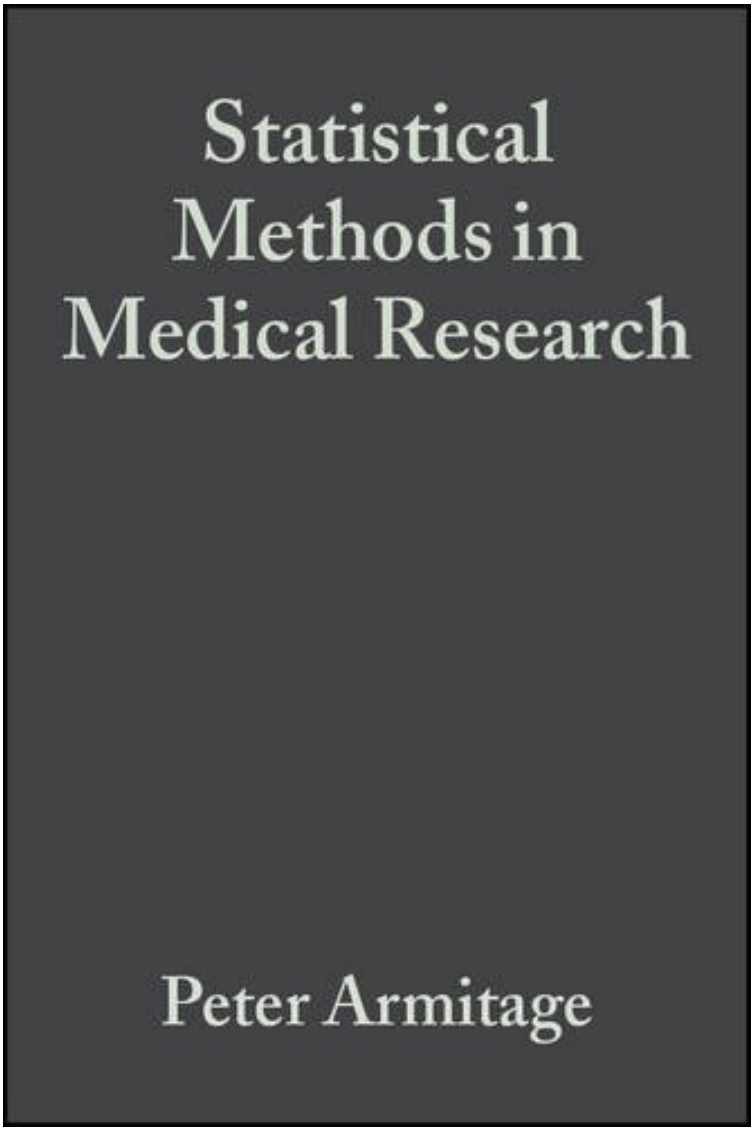
Statistical Methods in Medical Research

Peter Armitage, Geoffrey Berry, J. N. S. Matthews
*DOC | *audiobook | ebooks | Download PDF | ePub*



#1533581 in Books Wiley-Blackwell 2001-12-15Original language:EnglishPDF # 1 9.95 x 1.75 x 7.20l, 3.80 #File Name: 0632052570832 pages | File size: 60.Mb

Peter Armitage, Geoffrey Berry, J. N. S. Matthews : Statistical Methods in Medical Research before purchasing it in order to gage whether or not it would be worth my time, and all praised Statistical Methods in Medical Research:

1 of 1 people found the following review helpful. Great Frequentist/Bayesian read - deeper than the average non-math major biostat bookBy I Teach TypingIf you are not a mathematician but you are comfortable with basic algebra and you want to learn biostatistics, this is the book you want to get. The writing is consistently very good and there are plenty of worked examples mixed into the body of the text. This book does go deeper than the average non-math

major biostat text but it does not get lost in proofs and derivations. Rather, it provides a decent in-depth explanation of how things work. What sets this book apart from others is its solid (pleasantly balanced) introduction to Bayesian thinking. While most of the book is about traditional frequentest hypothesis testing, the authors do bring Bayesian approaches into play in several chapters.The book is showing its age. It is missing discussions on how to deal with the huge data problems associated with modern medical records. It is also missing a web supplement showing how to do the statistics with programming languages like SAS/R/STATA or general purpose tools like Python. Happily, it is easy to take the worked examples in the book and feed the data into analysis software to see which of the algorithms a package is using.Overall, this is my favorite biostat book for non-math-majors who want to go deeper into how statistics work.10 of 10 people found the following review helpful. The bible of biostatistics.By pgThis is definitely one of the most comprehensive of all biostatistics textbooks out there and it is also the best. Authoritative in style, it starts from the very basics and surveys in *detail* almost every method in biostatistics.You will be impressed: Apart from *all* the basic techniques usually found in most biostatistics texbooks, it has two extensive chapters on Bayesian methods (with Gibbs sampling, MCMC, etc., you name it), extensive treatments of clinical trials, extensive treatments of longitudinal data and GEE models, extensive details on the bootstrap and jackknife, an extensive chapter on methods in epidemiology (risk ratios, Mantel-Haenszel method), extensive treatments of categorical data (contingency tables, logistic regression), and an extensive chapter on survival analysis. This is indeed a very extensive book."Statistical Methods in Medical Research" is also a book on methodology, so theorems and proofs are not to be expected. Also there are no exercises, but there are excellent illustrative examples of the various methods. While it is very descriptive, it contains enough mathematics to keep the presentation of concepts *complete*. It is also very up-to-date and has an excellent reference list.In a nutshell, this is a work of great ambition and vision: it will cater for beginners and masters alike.0 of 0 people found the following review helpful. applied statisticsBy Abraham SilversThe most applied comprehensive review of medical stattistics that can be used by professionals and educated reserchers. Extremely well written..

The explanation and implementation of statistical methods for the medical researcher or statistician remains an integral part of modern medical research. This book explains the use of experimental and analytical biostatistics systems. Its accessible style allows it to be used by the non-mathematician as a fundamental component of successful research. Since the third edition, there have been many developments in statistical techniques. The fourth edition provides the medical statistician with an accessible guide to these techniques and to reflect the extent of their usage in medical research. The new edition takes a much more comprehensive approach to its subject. There has been a radical reorganization of the text to improve the continuity and cohesion of the presentation and to extend the scope by covering many new ideas now being introduced into the analysis of medical research data. The authors have tried to maintain the modest level of mathematical exposition that characterized the earlier editions, essentially confining the mathematics to the statement of algebraic formulae rather than pursuing mathematical proofs. Received the Highly Commended Certificate in the Public Health Category of the 2002 BMA Books Competition.

On the fourth edition: '...this breakthrough revision of a classic...is truly excellent: comprehensive, informative, able to be read at a variety of levels by a variety of readers, modern and insightful.' Statistics in Medicine, Volume 22, 2003 '...this is a volume which could usefully, and perhaps should, be read from cover to cover by anyone embarking on the study of medical statistics. For those already working in the area, it should at least be on their bookshelves.' Short Book s, Volume 22, Number 2, August 2002 '...each edition has improved and expanded considerably on the last, keeping pace with the ever-changing field of medical statistics...' eMJA Bookroom, 2002 On previous editions: '...this is an excellent book...I strongly recommend this book...' International Society for Clinical Biostatistics, December 1997 '...this classical beauty has aged well.' International Statistical Institute, April 1996 '...readers who...use statistical analysis...must buy this third edition' Australian-New Zealand Journal of Surgery, Spring 1995 '...the standard text for professional medical statisticians.' Aslib Book Guide, November 1994From the Back CoverThis popular book is recognised as a standard text for medical researchers and statisticians advising in medicine. Its first edition was reprinted six times. This new edition continues to cover basic principles, techniques of varying complexity, and applied statistical methods, and now contains a new chapter on statistical computation.