Statistics in Medicine, Third Edition

Robert H. Riffenburgh
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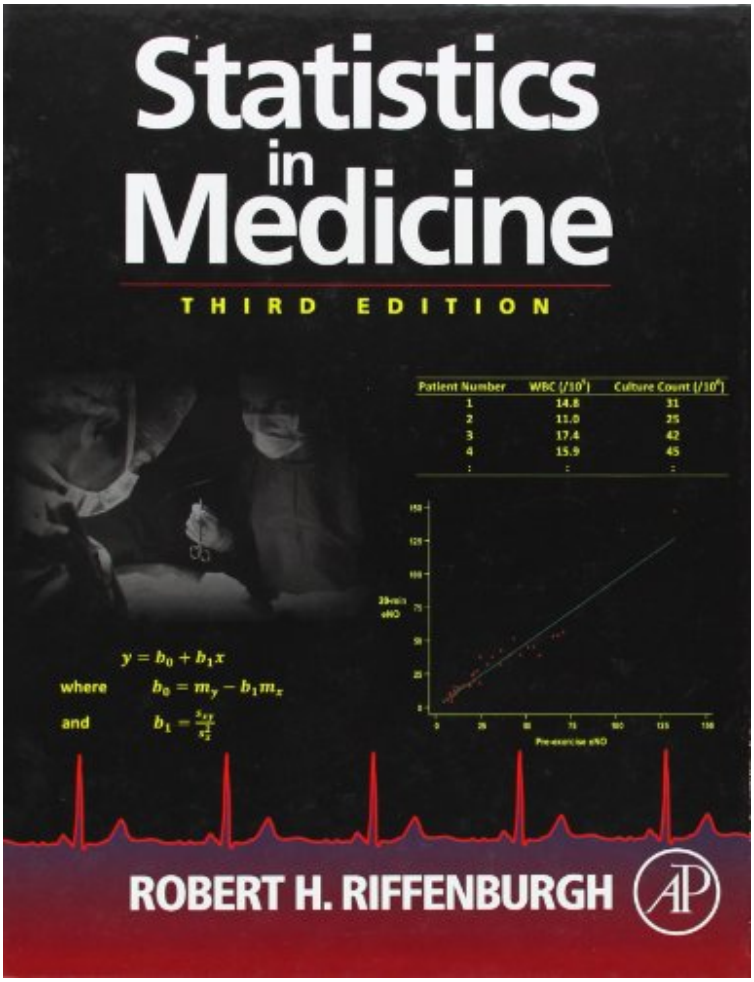

#308939 in Books imusti 2012-07-23Original language:EnglishPDF # 1 1.50 x 7.60 x 9.30l, 3.60 #File Name: 0123848644738 pagesAcademic Press | File size: 65.Mb

Robert H. Riffenburgh : Statistics in Medicine, Third Edition before purchasing it in order to gage whether or not it would be worth my time, and all praised Statistics in Medicine, Third Edition:

1 of 1 people found the following review helpful. Good product for medical researchBy Don E. JohnsenIt is a wonderfully clear resource for me. I am a research nurse who last had graduate statistics 12 years ago.1 of 2 people found the following review helpful. the 2nd edition is just fine if you are buying this for classBy Ulyssesthe 2nd edition is just fine if you are buying this for class. not much change in the new edition.2 of 3 people found the following review helpful. good bookBy Brandi Johnsonhad to have for school but seems to be easy to understand. logically written and builds well on previous topics

Statistics in Medicine, Third Edition makes medical statistics easy to understand by students, practicing physicians, and researchers. The book begins with databases from clinical medicine and uses such data to give multiple worked-

out illustrations of every method. The text opens with how to plan studies from conception to publication and what to do with your data, and follows with step-by-step instructions for biostatistical methods from the simplest levels (averages, bar charts) progressively to the more sophisticated methods now being seen in medical articles (multiple regression, noninferiority testing). Examples are given from almost every medical specialty and from dentistry, nursing, pharmacy, and health care management. A preliminary guide is given to tailor sections of the text to various lengths of biostatistical courses.User-friendly format includes medical examples, step-by-step methods, and check-yourself exercises appealing to readers with little or no statistical background, across medical and biomedical disciplinesFacilitates stand-alone methods rather than a required sequence of reading and references to prior textCovers trial randomization, treatment ethics in medical research, imputation of missing data, evidence-based medical decisions, how to interpret medical articles, noninferiority testing, meta-analysis, screening number needed to treat, and epidemiologyFills the gap left in all other medical statistics books between the readers knowledge of how to go about research and the books coverage of how to analyze results of that research New in this Edition: New chapters on planning research, managing data and analysis, Bayesian statistics, measuring association and agreement, and questionnaires and surveysNew sections on what tests and descriptive statistics to choose, false discovery rate, interim analysis, bootstrapping, Bland-Altman plots, Markov chain Monte Carlo (MCMC), and Deming regressionExpanded coverage on probability, statistical methods and tests relatively new to medical research, ROC curves, experimental design, and survival analysis35 Databases in Excel format used in the book and can be downloaded and transferred into whatever format is needed along with PowerPoint slides of figures, tables, and graphs from the book included on the companion site, http://www.elsevierdirect.com/companion.jsp?ISBN=9780123848642Medical subject index offers additional search capabilities

"a highly recommended book that is ideally suited for clinicians who require a strong foundation of statistics...The chapter on modeling concepts and methods and the chapter on clinical decision based on models are both extremely important for those medical professionals and researchers who work with clinical trialsa very good choice for an easily understood, yet comprehensive textbook to accompany a course on the subject, as well as a textbook for individual learning." --Graefe's Archive for Clinical and Experimental Ophthalmology,2013 "...if you want a single volume that covers statistics in medicine, you can stop lookingThe book is written in a practical and common-sense manner" --Journal of Clinical Research Best Practices, 2013 "there are many clear and varied examples with just enough equations and images to serve their purpose.nbsp; For those of us who learn by walking through a problem, this book is a joyDr. Riffenburghs text can be a welcome addition to any collection of statistics books." --Laboratory Animal Practitioner, 46(3): 2013 "This is an excellent resource and reference for students, teachers, and medical professionals. It is also an excellent tool for medical investigators on how to plan and design medical research and how to interpret medical literature in this evidence-based medicine era." --Doody.com, June 7, 2013 PRAISE FOR THE THIRD EDITION: "Statistics in Medicine, Third Edition makes medical statistics easy to understand for students, practicing physicians, and researchersExamples are given from almost every medical specialty and from dentistry, nursing, pharmacy, and health care management." --Doody.com,2013 "I teach MPH, Preventive Medicine residents, Clinical Science and Population Health Science students. I currently use Statistics in Medicine, 2nd Edand now am quite fond of it. Its strength is a pedagogical trick of covering the material first at a high level (30,000 ft) and then in detail.My students like the text." --Daniel Freeman, PhD, Professor, University of Texas Medical Branch, Galveston TX. "It is very difficult to avoid much of the basic mathematics without losing some of the important concepts and foundation to the subject. Many authors that try, fail miserably. Riffenburgh [has] carefully crafted a text that succeeds in this goal. I consider Riffenburgh's book to be a great choice especially for a two quarter or two semester course." --Michael Chernick, PhD, Director of Biostatistical Services, Lankenau Institute for Medical Research, Arlington VA. "About 90% of statistical analysis uses about 30% of the statistical methods, says Riffenburgh (Naval Medical Center San Diego, California), and those are the methods he devotes his attention to. In a textbook for a first course in statistics for future clinicians (not future mathematicians) he explains the procedures step-by-step with many clinical examples. Among the methods are confidence intervals, hypothesis testing, categorical data, and epidemiological method. He also discusses managing results of analysis, questionnaires and surveys, survival analysis, and logistic regression. The 15 databases he uses are available online. Earlier editions were published in 1999 and 2006. Academic Press is an imprint of Elsevier." --Reference and Research Book News, October 2012 PRAISE FOR THE SECOND EDITION: "...the author presents statistical concepts in fairly simple language and in a format that will make it especially appealing to a clinician...All clinicians will find this book useful, whether they are students, residents, or practitioners...particularly helpful to clinicians who do not have the time or interest in getting comprehensive training in biostatistics, yet need to understand and use these concepts in their professional careers...particularly useful are the illustrations and examples, exercises along with their answers, appendixes, and use of real data. Formulas are explained clearly, in a step-by-step fashion...This is one of the few books that presents hard to understand statistical concepts applied to real-world medical data in a relatively simple manner. The second edition expands on the first and includes more advanced topics as well as current concepts." --DOODY Enterprises, Inc. "This book is excellent value

for the clinician who wants to evaluate the research (s)he reads and for those who carry out research." --Margaret Moss, UK, for JOURNAL OF NUTRITIONAL amp; ENVIRONMENTAL MEDICINE FROM THE FOREWORD OF THE SECOND EDITION: "I congratulate Dr. Riffenburgh on his career as a medical statistician and for this useful text/reference book, which I commend to all who teach statistics to students in the health-related fields and to all who are engaged in or are consumers of health-related research." --W.M.(Mike) O'Fallon, Professor Emeritus and former Head of Biostatistics and Chair of the Dept. of Health Science Research, Mayo Clinic PRAISE FOR THE FIRST EDITION: "This user-friendly text is laid out in a practical fashion that includes numerous examples for applying complex tests. This book is complete enough for even the hard core bioresearcher." --Richard A. Hill, University of California-Irvine "Statistics can be overwhelming for the health professional and Dr. Riffenburgh gives them the tools to make preparing proposals using statistical applications easy. I wholeheartedly recommend this book to any professional, novice or seasoned, involved in the research process." --Capt. Peggy McNulty, U.S. Naval Health Clinic, HawaiiAbout the AuthorRobert H. Riffenburgh, PhD, advises on experimental design, statistical analysis, and scientific integrity of the approximately 400 concurrent studies at the Naval Medical Center San Diego. A fellow of the American Statistical Association and Royal Statistical Society, he is former Professor and Head, Statistics Department, University of Connecticut, and has been faculty at Virginia Tech., University of Hawaii, University of Maryland, University of California San Diego, San Diego State University, and University of Leiden (The Netherlands). He has been president of his own consulting firm and performed and directed operations research for the U.S. government and for NATO. He has consulted on biostatistics throughout his career, has received numerous awards, and has published more than 140 professional articles.