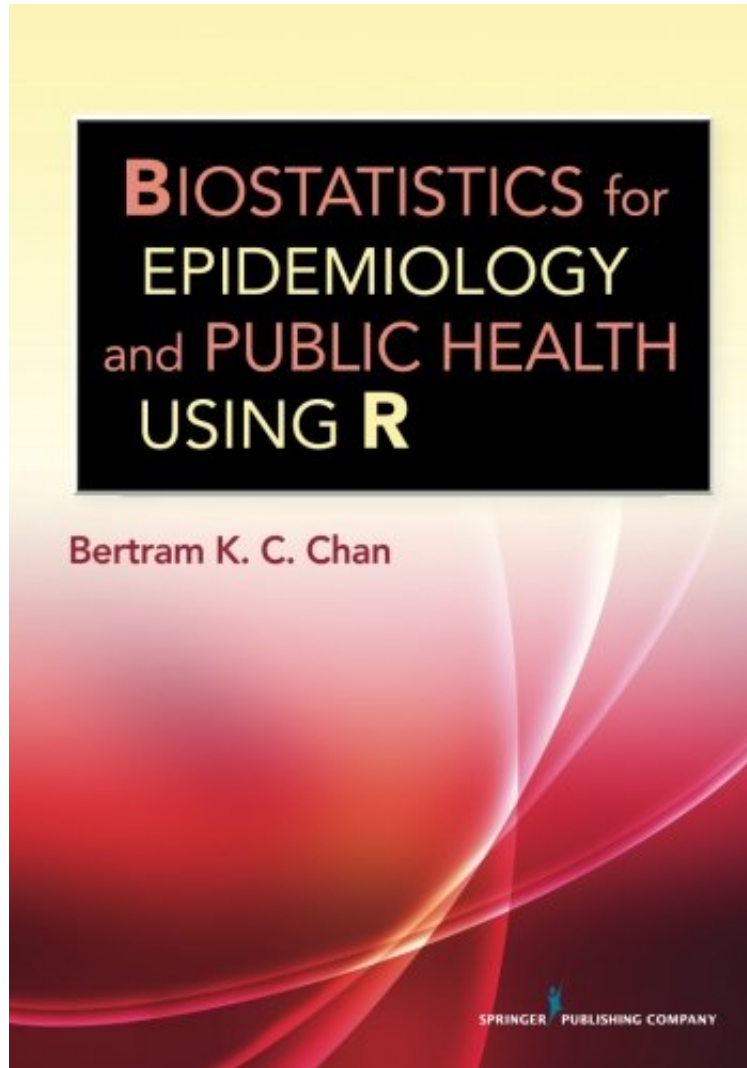


[Library ebook] Biostatistics for Epidemiology and Public Health Using R

# Biostatistics for Epidemiology and Public Health Using R

*Bertram K.C. Chan PhD*

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#175340 in Books Bertram Chan 2015-11-05 2015-11-05 Original language: English PDF # 1 10.00 x 1.04 x 7.00l, .0 #File Name: 0826110258458 pages Biostatistics for Epidemiology and Public Health Using R | File size: 29.Mb

**Bertram K.C. Chan PhD : Biostatistics for Epidemiology and Public Health Using R** before purchasing it in order to gauge whether or not it would be worth my time, and all praised Biostatistics for Epidemiology and Public Health Using R:

[P]rovides a comprehensive explanation for data analysis and graphics using R language, including how R language handles classic problems in case-control, cohort studies and its use in survival analysis... The content and quality of

this book is excellent. It is a great tool for understanding the use of R language for biostatistical analysis. Score: 91 - 4 Stars! Bhavesh Barad, MD, East Tennessee State University Quillen College of Medicine, Doody's Reviews

Since it first appeared in 1996, the open-source programming language R has become increasingly popular as an environment for statistical analysis and graphical output. In addition to being freely available, R offers several advantages for biostatistics, including strong graphics capabilities, the ability to write customized functions, and its extensibility. This is the first textbook to present classical biostatistical analysis for epidemiology and related public health sciences to students using the R language. Based on the assumption that readers have minimal familiarity with statistical concepts, the author uses a step-by-step approach to building skills. The text encompasses biostatistics from basic descriptive and quantitative statistics to survival analysis and missing data analysis in epidemiology. Illustrative examples, including real-life research problems and exercises drawn from such areas as nutrition, environmental health, and behavioral health, engage students and reinforce the understanding of R. These examples illustrate the replication of R for biostatistical calculations and graphical display of results. The text covers both essential and advanced techniques and applications in biostatistics that are relevant to epidemiology. This text is supplemented with teaching resources, including an online guide for students in solving exercises and an instructor's manual.

**KEY FEATURES:** First overview biostatistics textbook for epidemiology and public health that uses the open-source R program Covers essential and advanced techniques and applications in biostatistics as relevant to epidemiology Features abundant examples and exercises to illustrate the application of R language for biostatistical calculations and graphical displays of results Includes online student solutions guide and instructor's manual

**About the Author** Bertram K. C. (Bert) Chan, PhD, is currently Consulting Biostatistician at the School of Medicine, Department of Preventive Medicine at Loma Linda University, USA where he is currently involved with the 10-Year NIH funded project Adventist Health Study-2. He is also a Forum Lecturer at the Loma Linda University School of Public Health's Department of Biostatistics and Epidemiology on introducing the use of R programming to the curriculum. His extensive professional experience as either a consulting or full-time engineer includes Foundry Networks, Hewlett-Packard (PC and Network Servers Divisions), Apple Computer, Lockheed-Martin, and the Australian and Canadian Atomic Energy Commission Research Establishments. Dr. Chan has published over 30 peer-reviewed publications and technical reports and holds three U.S. Patents. He also published a 10-volume series of mathematics textbooks for secondary schools in Hong Kong.