



Biostatistical Design and Analysis Using R (Hardback)

By Murray Logan

John Wiley and Sons Ltd, United Kingdom, 2010. Hardback. Book Condition: New. 242 x 170 mm. Language: English . Brand New Book. R the statistical and graphical environment is rapidly emerging as an important set of teaching and research tools for biologists. This book draws upon the popularity and free availability of R to couple the theory and practice of biostatistics into a single treatment, so as to provide a textbook for biologists learning statistics, R, or both. An abridged description of biostatistical principles and analysis sequence keys are combined together with worked examples of the practical use of R into a complete practical guide to designing and analyzing real biological research. Topics covered include: * simple hypothesis testing, graphing * exploratory data analysis and graphical summaries * regression (linear, multi and non-linear) * simple and complex ANOVA and ANCOVA designs (including nested, factorial, blocking, split-plot and repeated measures) * frequency analysis and generalized linear models. Linear mixed effects modeling is also incorporated extensively throughout as an alternative to traditional modeling techniques. The book is accompanied by a companion website with an extensive set of resources comprising all R scripts and data sets used in the book, additional worked examples, the biology package, and other instructional materials and links.



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