Biostatistical Design and Analysis Using R

By Murray Logan

John Wiley and Sons Ltd. Paperback. Book Condition: new. BRAND NEW, Biostatistical Design and Analysis Using R, Murray Logan, R the statistical and graphical environment is rapidlyemerging as an important set of teaching and research tools forbiologists. This book draws upon the popularity and freeavailability of R to couple the theory and practice ofbiostatistics into a single treatment, so as to provide a textbookfor biologists learning statistics, R, or both. An abridgeddescription of biostatistical principles and analysis sequence keysare combined together with worked examples of the practical use ofR into a complete practical guide to designing and analyzing realbiological 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, spit-plot and repeated measures) * frequency analysis and generalized linear models. Linear mixed effects modeling is also incorporated extensivelythroughout as an alternative to traditional modelingtechniques. The book is accompanied by a companion websitewww.wiley.com/go/logan/r with an extensive set of resourcescomprising all R scripts and data sets used in the book, additionalworked examples, the biology package, and other instructionalmaterials and links.

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