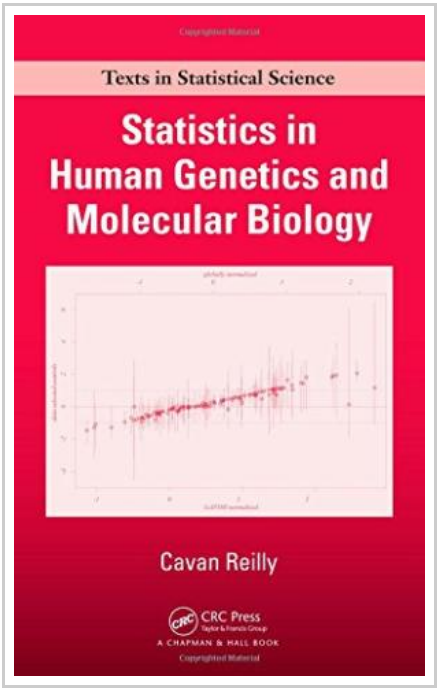

Statistics in Human Genetics and Molecular Biology

By Cavan Reilly, Chris Chatfield, James V. Zidek, Martin Abba Tanner, Bradley P. Carlin

Taylor & Francis Ltd. Hardback. Book Condition: new. BRAND NEW, Statistics in Human Genetics and Molecular Biology, Cavan Reilly, Chris Chatfield, James V. Zidek, Martin Abba Tanner, Bradley P. Carlin, Focusing on the roles of different segments of DNA, Statistics in Human Genetics and Molecular Biology provides a basic understanding of problems arising in the analysis of genetics and genomics. It presents statistical applications in genetic mapping, DNA/protein sequence alignment, and analyses of gene expression data from microarray experiments. The text introduces a diverse set of problems and a number of approaches that have been used to address these problems. It discusses basic molecular biology and likelihood-based statistics, along with physical mapping, markers, linkage analysis, parametric and nonparametric linkage, sequence alignment, and feature recognition. The text illustrates the use of methods that are widespread among researchers who analyze genomic data, such as hidden Markov models and the extreme value distribution. It also covers differential gene expression detection as well as classification and cluster analysis using gene expression data sets. Ideal for graduate students in statistics, biostatistics, computer science, and related fields in applied mathematics, this text presents various approaches to help students solve problems at the interface of these areas.

Reviews

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