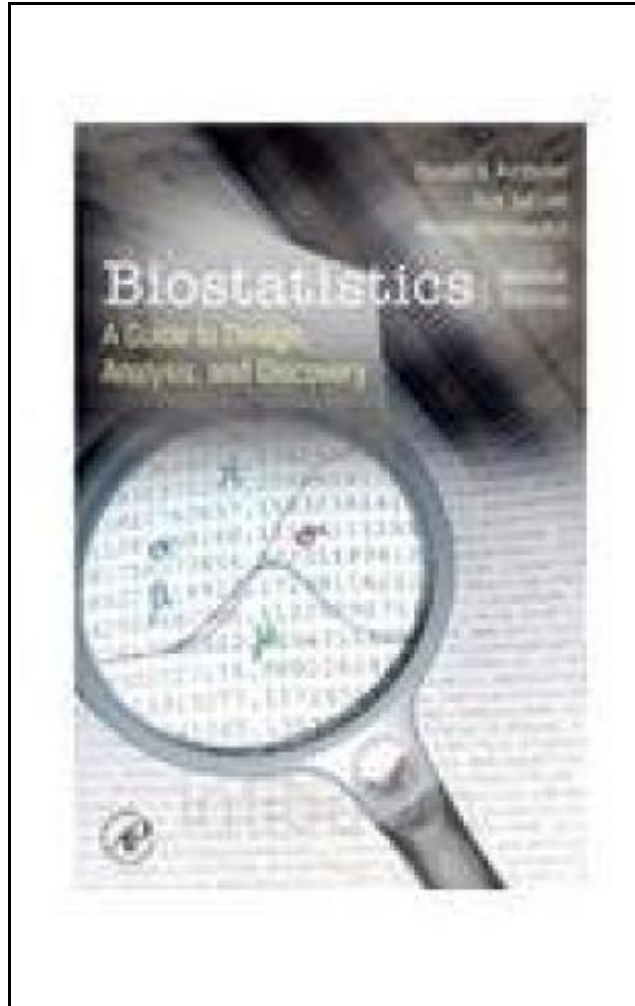


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BIostatistics: A GUIDE TO DESIGN, ANALYSIS AND DISCOVERY, SECOND EDITION



Elsevier, 2010. Hardcover. Book Condition: New. 5th or later edition. Today, mathematics, biology, medicine, and statistics are closing the interdisciplinary gap in an unprecedented way and many of the important unanswered questions now emerge at the interface of these disciplines. Now in its Second Edition, this user-friendly guide on biostatistics focuses on the proper use and interpretation of statistical methods. This textbook does not require extensive background in mathematics, making it user-friendly for all students in the public health sciences field. Instead of highlighting derivations of formulas, the authors provide rationales for the formulas, allowing students to grasp a better understanding of the link between biology and statistics. The material on life tables and survival analysis allows students to better understand the recent literature in the health field, particularly in the study of chronic disease treatment. Biostatistics now includes a companion website to demonstrate the different applications of computer packages for performing the various analyses presented in this text. Contents:- 1. INTRODUCTION 1.1 What is Biostatistics? 1.2 Data ? The Key Component of a Study 1.3 Design ? The Road to Relevant Data 1.4 Replication ? Part of the Scientific Method 1.5 Applying Statistical Methods Concluding Remarks Exercises References 2. DATA AND NUMBERS 2.1 Data: Numerical Representation 2.2 Observations and Variables 2.3 Scales Used with Variables 2.4 Reliability and Validity 2.5 Randomized Response Technique 2.6 Common Data Problems Concluding Remarks Exercises References 3. DESCRIPTIVE METHODS 3.1 Introduction to Descriptive Methods 3.2 Tabular and Graphic Presentation of Data 3.2.1 Frequency Tables 3.2.2 Line Graphs 3.2.3 Bar Charts 3.2.4 Histograms 3.2.5 Stem-and-Leaf Plots 3.2.6 Dot Plots 3.2.7 Scatter Plots 3.3 Measures of Central Tendency 3.3.1 Mean, Median, and Mode 3.3.2 Use of the Measures of Central Tendency 3.3.3 The Geometric Mean 3.4 Measures of Variability 3.4.1 Ranges and Percentiles 3.4.2 Box Plots...



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