

Contents

Preface to the First Edition	ix
Preface to the Second Edition	xi
1. Introduction to Biostatistics	1
2. Biostatistical Design of Medical Studies	10
3. Descriptive Statistics	25
4. Statistical Inference: Populations and Samples	61
5. One- and Two-Sample Inference	117
6. Counting Data	151
7. Categorical Data: Contingency Tables	208
8. Nonparametric, Distribution-Free, and Permutation Models; Robust Procedures	253
9. Association and Prediction: Linear Models with One Predictor Variable	291
10. Analysis of Variance	357
11. Association and Prediction: Multiple Regression Analysis and Linear Models with Multiple Predictor Variables	428
12. Multiple Comparisons	520
13. Discrimination and Classification	550
14. Principal Component Analysis and Factor Analysis	584

15. Rates and Proportions	640
16. Analysis of the Time to an Event: Survival Analysis	661
17. Sample Sizes for Observational Studies	709
18. Longitudinal Data Analysis	728
19. Randomized Clinical Trials	766
20. Personal Postscript	787
Appendix	817
Author Index	841
Subject Index	851
Symbol Index	867