DESCRIPTION

This 10th edition of *Biostatistics: A Foundation for Analysis in the Health Sciences, 10th Edition* should appeal to the same audience for which the first nine editions were written: advanced undergraduate students, beginning graduate students, and health professionals in need of a reference book on statistical methodology. Like its predecessors, this edition requires few mathematical prerequisites. Only reasonable proficiency in algebra is required for an understanding of the concepts and methods underlying the calculations. The emphasis continues to be on an intuitive understanding of principles rather than an understanding based on mathematical sophistication. For most of the statistical techniques covered in this edition, we discuss the capabilities of one or more software packages (MINITAB, SAS, SPSS, and NCSS) that may be used to perform the calculations needed for their application. Resulting screen displays are also shown.

ABOUT THE AUTHOR

Professor Emeritus, Georgia State University, Dr. Wayne W. Daniel taught statistics in the College of Business and the College of Allied Health Sciences for thirty years. Prior to joining the Georgia State University faculty, he was employed as a biostatistician
at the Georgia Department of Public Health. Professor Daniel received his undergraduate degree from the University of Georgia, a Master of Public Health degree with biostatistics concentration from the University of North Carolina, Chapel Hill, and a Ph. D. in Public Health with concentration in biostatistics from the University of Oklahoma. During his academic career he served as a statistical consultant and authored and co-authored statistics related articles published in several scientific journals. Professor Daniel is the author of five statistics textbooks, including Biostatistics.

**Dr. Chad L. Cross** is trained as a multidisciplinary scientist and holds advanced degrees in statistics, the life sciences, and the social sciences. He works primarily as a biostatistician, where he specializes in multivariate and nonparametric statistics, sampling and experimental design, and the application of novel techniques to nonstandard data sets. He has worked extensively with state and federal governments, academic scientists, and private consultancies. He is skilled and experienced in all aspects of research design and analysis. Dr. Cross actively pursues furthering his statistical knowledge and expertise by engaging in several professional and learned societies, including the American Statistical Association, with whom he carries the Accredited Professional Statistician credential.

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**NEW TO EDITION**

- ANOVA/Logistic Regression: Chapter 8 has been revised to expand coverage of ANOVA and linear regression, as well as strengthening the ties between it and Chapters 9-11.

- Survival Analysis/Vital Statistics: Survival analysis coverage has been expanded to an entire chapter.

- Solutions: Increased numbers of full write-ups of the results obtained in examples and problems to provide instructors and students with more complete information.

- Online Examples: Online examples using several technologies (SPSS, SAS, MINITAB, R) to show instructors and students how each technology can be used to solve problems.
FEATURES

• Real-world practice through examples and exercises using data from actual research projects and reports.

• Highlighting of main ideas with bulleted objectives at the start of each chapter.

• Screen captures and technology boxes with step-by-step help.

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