Perfect for graduate and undergraduate students, this book helps the reader understand some of the most elusive fundamentals of epidemiology and biostatistics.

The Seventh Edition offers expanded chapters as well as coverage of a number of new topics that have become prevalent in the medical literature such as:

- receiver-operator curve analysis to improve sensitivity/specificity;
- the power of a statistical test;
- one-tailed P values;
- comparison-wise significance levels versus study-wise significance levels;
- confidence interval and its relationship to statistical significance;
- Meta-analysis with current methods for assessing heterogeneity and the potential for publication bias;
- the use of propensity scoring to reduce bias in non-experimental studies.

Key Features:

* 46 objectives, expressed in behavioral terms, cite the concepts to be learned and the level at which students are expected to perform
* Study Notes, which can be used as the sole source of input to cover the material or used to supplement attendance at a lecture series
* Chapter Exercises, which encourage students to immediately use their newly acquired knowledge, and thus improve retention through practice
* Multiple Choice Examinations, which have the same scope and are on the same level that students may expect to encounter in professional examinations