|                         | UNINA9910830689103321   |
|-------------------------|---|
| Autore                  | Chernick Michael R  |
| Titolo                  | Introductory biostatistics for the health sciences [[electronic resource] ]<br>: modern applications including bootstrap / / Michael R. Chernick and<br>Robert H. Friis |
| Pubbl/distr/stampa      | Hoboken, N.J., : Wiley-Interscience, c2003  |
| ISBN                    | 1-280-36626-5<br>9786610366262<br>0-470-31811-2<br>0-471-45865-1<br>0-471-45871-6   |
| Descrizione fisica      | 1 online resource (426 p.)  |
| Collana                 | Wiley series in probability and statistics  |
| Altri autori (Persone)  | FriisRobert H   |
| Disciplina              | 519.502461<br>610.72  |
| Soggetti                | Medical statistics<br>Biometry  |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Note generali           | Description based upon print version of record.   |
|                         |   |
| Nota di bibliografia    | Includes bibliographical references and index.  |

1.

|                    | Display of Data; 3.1 Types of Data; 3.1.1 Qualitative; 3.1.2 Quantitative;<br>3.2 Frequency Tables and Histograms; 3.3 Graphical Methods<br>3.3.1 Frequency Histograms3.3.2 Frequency Polygons; 3.3.3<br>Cumulative Frequency Polygon; 3.3.4 Stem-and-Leaf Diagrams; 3.3.5<br>Box-and-Whisker Plots; 3.3.6 Bar Charts and Pie Charts; 3.4 Exercises;<br>3.5 Additional Reading; 4. Summary Statistics; 4.1 Measures of Central<br>Tendency; 4.1.1 The Arithmetic Mean; 4.1.2 The Median; 4.1.3 The<br>Mode; 4.1.4 The Geometric Mean; 4.1.5 The Harmonic Mean; 4.1.6<br>Which Measure Should You Use?; 4.2 Measures of Dispersion; 4.2.1<br>Range; 4.2.2 Mean Absolute Deviation; 4.2.3 Population Variance and<br>Standard Deviation; 4.2.4 Sample Variance and Standard Deviation<br>4.2.5 Calculating the Variance and Standard Deviation<br>4.4 Exercises; 4.5 Additional Reading; 5. Basic Probability; 5.1 What is<br>Probability?; 5.2 Elementary Sets as Events and Their Complements; 5.3<br>Independent and Disjoint Events; 5.4 Probability Rules; 5.5<br>Permutations and Combinations; 5.6 Probability Distributions; 5.7 The<br>Binomial Distribution; 5.8 The Monty Hall Problem; 5.9 A Quality<br>Assurance Problem; 5.10 Exercises; 5.11 Additional Reading; 6. The<br>Normal Distribution<br>6.1 The Importance of the Normal Distribution in Statistics6.2<br>Properties of Normal Distributions; 6.3 Tabulating Areas under the<br>Standard Normal Distributions; 6.4 Exercises; 6.5 Additional Reading; 7.<br>Sampling Distributions for Means; 7.1 Population Distributions and the<br>Distribution of Sample Averages from the Population; 7.2 The Central<br>Limit Theorem; 7.3 Standard Error of the Mean; 7.4 Z Distribution<br>Obtained When Standard Deviation Is Known; 7.6<br>Assumptions Required for t Distribution; 7.7 Exercises<br>7.8 Additional Reading |
|--------------------|---|
| Sommario/riassunto | Accessible to medicine- and/or public policy-related audiences, as well<br>as most statisticians.Emphasis on outliers is discussed by way of<br>detection and treatment.Resampling statistics software is incorporated<br>throughout.Motivating applications are presented in light of honest<br>theory.Plentiful exercises are sprinkled throughout.   |