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| Autore | Hodges J. L (Joseph Lawson), <1922-> |
| Titolo | Basic concepts of probability and statistics / / J.L. Hodges, Jr., E.L. Lehmann |
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| Descrizione fisica | 1 electronic text (xix, 441 p. : ill.) : digital file |
| Collana | Classics in applied mathematics ; ; 48 |
| Altri autori (Persone) | LehmannE. L <1917-> (Erich Leo) |
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| Soggetti | Probabilities<br>Mathematical statistics |
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| Note generali | Originally published: 2nd ed. San Francisco : Holden-Day, 1970, in series: Holden-Day series in probability and statistics. |
| Nota di bibliografia | Includes bibliographical references and indexes. |
| Nota di contenuto | Probability models -- Sampling -- Product models -- Conditional probability -- Random variables -- Special distributions -- Multivariate distributions -- Estimation -- Estimation in measurement and sampling models -- Optimum methods of estimation -- Tests of significance -- Tests for comparative experiments -- Concept of power. |
| Sommario/riassunto | Basic Concepts of Probability and Statistics provides a mathematically rigorous introduction to the fundamental ideas of modern statistics for readers without a calculus background. It is the only book at this level to introduce readers to modern concepts of hypothesis testing and estimation, covering basic concepts of finite, discrete models of probability and elementary statistical methods. Although published in 1970, it maintains a modern outlook, especially in its emphasis on models and model building and also by its coverage of topics such as simple random and stratified survey sampling, experimental design, and nonparametric tests and its discussion of power. The book covers a wide range of applications in manufacturing, biology, and social science, including demographics, political science, and sociology. Among the topics covered that readers may not expect in an elementary text are optimal design and a statement and proof of the fundamental (Neyman-Pearson) lemma for hypothesis testing. |

Audience: intended for high school and undergraduate students as well as others who want a mathematically rigorous introduction to probability and statistics that does not require calculus. It can supplement high school and college courses on discrete mathematics and will appeal especially to instructors teaching statistics courses within mathematics departments.