1. Record Nr. UNINA9910143081203321 Autore Kinney John J Titolo A probability and statistics companion [[electronic resource] /] / John J. Kinney Hoboken, N.J.,: Wiley, c2009 Pubbl/distr/stampa **ISBN** 1-282-11461-1 9786612114618 0-470-48697-X 0-470-48696-1 Descrizione fisica 1 online resource (278 p.) Classificazione SK 800 Disciplina 519.2 Soggetti **Probabilities** Probabilistic number theory Electronic books. 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. Nota di contenuto A Probability and Statistics Companion; Contents; Preface; 1. Probability and Sample Spaces; Why Study Probability?; Probability; Sample Spaces; Some Properties of Probabilities; Finding Probabilities of Events; Conclusions; Explorations; 2. Permutations and Combinations: Choosing the Best Candidate: Acceptance Sampling: Permutations: Counting Principle; Permutations with Some Objects Alike; Permuting Only Some of the Objects; Combinations; General Addition Theorem and Applications; Conclusions; Explorations; 3. Conditional Probability; Introduction; Some Notation; Bayes' Theorem Conclusions Explorations; 4. Geometric Probability; Conclusion; Explorations: 5. Random Variables and Discrete Probability Distributions-Uniform, Binomial, Hypergeometric, and Geometric Distributions; Introduction; Discrete Uniform Distribution; Mean and Variance of a Discrete Random Variable: Intervals. . and German Tanks; Sums; Binomial Probability Distribution; Mean and Variance of the Binomial Distribution; Sums; Hypergeometric Distribution; Other

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## Sommario/riassunto

An accessible and engaging introduction to the study of probability and statistics Utilizing entertaining real-world examples, A Probability and Statistics Companion provides aunique, interesting, and accessible introduction to probability and statistics. This one-of-a-kind book delves into practical topics that are crucial in the analysis of sample surveys and experimentation. This handy book contains introductory explanations of the major topics in probability and statistics, including hypothesis testing and regression, while also delving into more advanced topics such as the anal