



Mathematical Statistics with Resampling and R (Hardback)

By Laura M. Chihara, Tim C. Hesterberg

John Wiley Sons Inc, United States, 2011. Hardback. Condition: New. 1. Auflage. Language: English . Brand New Book. This book bridges the latest software applications with the benefits of modern resampling techniques Resampling helps students understand the meaning of sampling distributions, sampling variability, P-values, hypothesis tests, and confidence intervals. This groundbreaking book shows how to apply modern resampling techniques to mathematical statistics. Extensively class-tested to ensure an accessible presentation, Mathematical Statistics with Resampling and R utilizes the powerful and flexible computer language R to underscore the significance and benefits of modern resampling techniques. The book begins by introducing permutation tests and bootstrap methods, motivating classical inference methods. Striking a balance between theory, computing, and applications, the authors explore additional topics such as: * Exploratory data analysis * Calculation of sampling distributions * The Central Limit Theorem * Monte Carlo sampling * Maximum likelihood estimation and properties of estimators * Confidence intervals and hypothesis tests * Regression * Bayesian methods Throughout the book, case studies on diverse subjects such as flight delays, birth weights of babies, and telephone company repair times illustrate the relevance of the real-world applications of the discussed material. Key definitions and theorems of important probability distributions are...



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