



Statistics for The Sciences

By Buntinas, Martin; Funk, Gerald M.

Cengage Learning, 2004. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: PREFACE. 1. INTRODUCTION. What is Statistics? Sampling and Estimation. Precision Versus Confidence. Hypothesis Testing. Preview. Review Exercises. 2. DESCRIPTION OF DATA. Introduction. Categorical Data. Ordinal Data. Ratio Data. Frequency Tables and Histograms. Grouped Data and Sturges Rule. Stem and Leaf Plot. Five-number Summary. Box Plot. The Mean. Variance and Standard Deviation. Ogives and Quantiles. Exploratory Data Analysis. Formulas for Histograms (optional). Review Exercises. 3. PROBABILITY THEORY. Overview. Definitions. Probabilities of Events. Rules of Probability. Three Diagrams. Bayes Formula. Review Exercises. 4. DISCRETE RANDOM VARIABLES. Introduction. Basic Properties of Discrete Random Variables. Probability Histograms. Expected Value or Mean of a Random Variable. Functions of Random Variables. Variance and Standard Deviation of a Random Variable. Law of Large Numbers (optional). Review Exercises. 5. CONTINUOUS RANDOM VARIABLES. Continuous Random Variables. Basic Properties. Percentiles and Modes. Expected Value or Mean. Functions of Random Variables. Variance and Standard Deviation. Chebyshevs Inequality. Review Exercises. 6. SPECIAL DISCRETE RANDOM VARIABLES. Discrete Uniform Random Variables. Bernoulli Random Variables. Binomial Random Variables. Hypergeometric Random Variables. Review Exercises. 7. HYPOTHESIS TESTING. Introduction. Two Types of Errors. The Sign Test. Binomial Exact Test. Fishers...



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