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Nota di contenuto	Intro -- Statistics with JMP: Hypothesis Tests, Anova and Regression -- Contents -- Preface -- Software -- Data Files -- Acknowledgments -- Part One Estimators and Tests -- 1 Estimating Population Parameters -- 1.1 Introduction: Estimators Versus Estimates -- 1.2 Estimating a Mean Value -- 1.2.1 The Mean of a Normally Distributed Population -- 1.2.2 The Mean of an Exponentially Distributed Population -- 1.3 Criteria for Estimators -- 1.3.1 Unbiased Estimators -- 1.3.2 The Efficiency of an Estimator -- 1.4 Methods for the Calculation of Estimators -- 1.5 The Sample Mean 1.5.1 The Expected Value and the Variance -- 1.5.2 The Probability Density of the Sample Mean for a Normally Distributed Population -- 1.5.3 The Probability Density of the Sample Mean for a Nonnormally Distributed Population -- 1.5.4 An Illustration of the Central Limit Theorem -- 1.6 The Sample Proportion -- 1.7 The Sample Variance -- 1.7.1 The Expected Value -- 1.7.2 The 2-Distribution -- 1.7.3 The Relation Between the Standard Normal and the 2-Distribution -- 1.7.4 The Probability Density of the Sample Variance -- 1.8 The Sample Standard Deviation -- 1.9 Applications -- 2 Interval Estimators 2.1 Point and Interval Estimators -- 2.2 Confidence Intervals for a Population Mean with Known Variance -- 2.2.1 The Percentiles of the Standard Normal Density -- 2.2.2 Computing a Confidence Interval -- 2.2.3 The Width of a Confidence

Interval -- 2.2.4 The Margin of Error -- 2.3 Confidence Intervals for a Population Mean with Unknown Variance -- 2.3.1 The Student t-Distribution -- 2.3.2 The Application of the t-Distribution to Construct Confidence Intervals -- 2.4 Confidence Intervals for a Population Proportion -- 2.4.1 A First Interval Estimator Based on the Normal Distribution 2.4.2 A Second Interval Estimator Based on the Normal Distribution -- 2.4.3 An Interval Estimator Based on the Binomial Distribution -- 2.5 Confidence Intervals for a Population Variance -- 2.6 More Confidence Intervals in JMP -- 2.7 Determining the Sample Size -- 2.7.1 The Population Mean -- 2.7.2 The Population Proportion -- 3 Hypothesis Tests -- 3.1 Key Concepts -- 3.2 Testing Hypotheses About a Population Mean -- 3.2.1 The Right-Tailed Test -- 3.2.2 The Left-Tailed Test -- 3.2.3 The Two-Tailed Test -- 3.3 The Probability of a Type II Error and the Power -- 3.4 Determination of the Sample Size 3.5 JMP -- 3.6 Some Important Notes Concerning Hypothesis Testing -- 3.6.1 Fixing the Significance Level -- 3.6.2 A Note on the "Acceptance" of the Null Hypothesis -- 3.6.3 Statistical and Practical Significance -- Part Two One Population -- 4 Hypothesis Tests for a Population Mean, Proportion, or Variance -- 4.1 Hypothesis Tests for One Population Mean -- 4.1.1 The Right-Tailed Test -- 4.1.2 The Left-Tailed Test -- 4.1.3 The Two-Tailed Test -- 4.1.4 Nonnormal Data -- 4.1.5 The Use of JMP -- 4.2 Hypothesis Tests for a Population Proportion -- 4.2.1 Tests Based on the Normal Distribution.

Sommario/riassunto

"Provides a comprehensive and rigorous presentation of descriptive statistics and probability theory that has been extensively classroom tested"--
