

## CHAPTER OVERVIEW

### 11: Chi-Square and Analysis of Variance (ANOVA)

A chi-squared test is any statistical hypothesis test in which the sampling distribution of the test statistic is a chi-square distribution when the **null hypothesis** is true.

11.0: Prelude to The Chi-Square Distribution

11.0.1: Facts About the Chi-Square Distribution

11.1: Goodness-of-Fit Test

11.2: Tests Using Contingency tables

11.2.1: Test of Independence

11.2.2: Test for Homogeneity

11.2.3: Comparison of the Chi-Square Tests

11.3: Prelude to F Distribution and One-Way ANOVA

11.3.1: One-Way ANOVA

11.3.2: The F Distribution and the F-Ratio

11.3.3: Facts About the F Distribution

11.3.4: How to Use Microsoft Excel® for Regression Analysis

11.E: F Distribution and One-Way ANOVA (Optional Exercises)

11.E: The Chi-Square Distribution (Optional Exercises)

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