

Categorical Data Analysis: Chi-Squared Tests

13.1 Finding Chi-Square Critical Values

1. Use the Chi-squared table to find the following critical value: $\chi^2_{0.05}$ with 2 degrees of freedom.
2. Use the Chi-squared table to find the following critical value: $\chi^2_{0.025}$ with 3 degrees of freedom.
3. Use the Chi-squared table to find the following critical value: $\chi^2_{0.01}$ with 4 degrees of freedom.

Answers:

1. $\chi^2_{0.05,2} = 5.99147$

2. $\chi^2_{0.025,3} = 9.34840$

3. $\chi^2_{0.01,4} = 13.2767$