ECON 351*: Recommended Readings in Gujarati (1995), Third Edition

Listed below are recommended readings on each topic in the discontinued third edition of Gujarati's introductory text:

Damodar N. Gujarati, *Basic Econometrics*, 3rd Edition. New York: McGraw-Hill, 1995. ISBN 0-07-025214-9.

PART I. THE SIMPLE (TWO-VARIABLE) LINEAR REGRESSION MODEL

Section 1: Basic Concepts of Regression Analysis

Gujarati (1995): Introduction, pp. 1-12; Chapter 1, pp. 13-27; Chapter 2, pp. 32-45.

Section 2: Specification -- Assumptions of the Simple Regression Model

Gujarati (1995): Chapter 3, Sec. 3.2, pp. 59-69.

Section 3: Estimation -- The Method of Ordinary Least Squares (OLS)

Gujarati (1995): Chapter 3, Sec. 3.1, pp. 52-59 and Secs. 3.3-3.10, pp. 69-87; Appendix 3A, pp. 94-99.

Section 4: The Normality Assumption

Gujarati (1995): Chapter 4, Secs. 4.1-4.3, pp. 101-110.

Section 5: Inference -- Interval Estimation and Hypothesis Testing

Gujarati (1995): Chapter 5, Secs. 5.1-5.9, pp. 115-136, and Secs. 5.11-5.13, pp. 140-145.

Section 6: Prediction in the Linear Regression Model

Gujarati (1995): Chapter 5, Sec. 5.10, pp. 137-139.

Section 7: Functional Form in the Variables

Gujarati (1995): Chapter 6, Secs. 6.2-6.7, pp. 161-178, Sec. 6.9, pp. 179-180.

PART II. THE MULTIPLE LINEAR REGRESSION MODEL

Section 8: Specification -- The Classical Linear Regression Model (CLRM)

Gujarati (1995): Chapter 7, Secs. 7.1-7.3, pp. 191-197.

Section 9: Estimation -- Ordinary Least Squares (OLS)

Gujarati (1995): Chapter 7, Sec. 7.4, pp. 197-201; Appendix 7A, pp. 231-235.

Section 10: Goodness-of-Fit

Gujarati (1995): Chapter 7, Secs. 7.5-7.6, pp. 201-204, Secs. 7.8-7.10, pp. 207-217.

Section 11: Selected Aspects of Model Specification

Gujarati (1995): Chapter 7, Sec. 7.11, pp. 217-221.

Section 12: Inference -- Interval Estimation and Hypothesis Testing

Gujarati (1995): Chapter 8, Secs. 8.1-8.5, pp. 238-254.

PART III. SOME USES OF LINEAR REGRESSION ANALYSIS

Section 13: Linear Coefficient Restrictions

Gujarati (1995): Chapter 8, Secs. 8.6-8.8, pp. 254-265.

Section 14: Dummy Variable Regressors and Covariance Analysis

Gujarati (1995): Chapter 15, Secs. 15.1-15.10, pp. 499-519.

PART IV. PROBLEMS IN REGRESSION ANALYSIS

Section 15: Multicollinearity

Gujarati (1995): Chapter 10, pp. 319-346.

Section 16: Specification Errors -- The Selection of Regressors

Gujarati (1995): Chapter 7, Sec. 7.7, pp. 204-207; Chapter 13, Secs. 13.1-13.4, pp. 452-467.

Section 17: Heteroskedasticity -- Nonconstant Error Variances

Gujarati (1995): Chapter 11, pp. 355-390.