

1. Introduction to Business Analytics.Part 1: EXPLORING DATA.2. Describing the Distribution of a Single Variable.3. Finding Relationships among Variables.Part 2: PROBABILITY AND DECISION MAKING UNDER UNCERTAINTY.4. Probability and Probability Distributions.5. Normal, Binomial, Poisson, and Exponential Distributions.6. Decision Making under Uncertainty.Part 3: STATISTICAL INFERENCE.7. Sampling and Sampling Distributions.8. Confidence Interval Estimation.9. Hypothesis Testing.Part 4: REGRESSION ANALYSIS AND TIME SERIES FORECASTING.10. Regression Analysis: Estimating Relationships.11. Regression Analysis: Statistical Inference.12. Time Series Analysis and Forecasting.Part 5: OPTIMIZATION AND SIMULATION MODELING.13. Introduction to Optimization Modeling.14. Optimization Models.15. Introduction to Simulation Modeling.16. Simulation Models.Part 6: ADVANCED DATA ANALYSIS.17. Data Mining.Part 7: BONUS ONLINE MATERIAL.18. Importing Data into Excel.19. Analysis of Variance and Experimental Design.20. Statistical Process Control.Appendix A: Statistical Reporting.