Table of contents

Foreword	٧
Preface What's new in the second edition?	ix ix
Lesson I: Frame the problem and explore the study area	I
Frame the problem Exercise Ia: Explore the study area Exercise Ib: Do exploratory data analysis	5 7 30
Lesson 2: Preview data	59
Exercise 2a: List the data requirements Exercise 2b: Examine data Exercise 2c: Reframe the problem statement	61 64 77
Lesson 3: Choose the data	87
Exercise 3a: Choose datasets Exercise 3b: Choose a coordinate system	89 106
Lesson 4: Build the database	123
Exercise 4a: Create a geodatabase Exercise 4b: Project a feature class Exercise 4c: Convert feature classes Exercise 4d: Prepare the city and county data Exercise 4e: Prepare the river data Exercise 4f: Prepare the park data Exercise 4g: Prepare the block group data Exercise 4h: Prepare the parcel data	125 127 133 136 143 145 152
Lesson 5: Edit data	173
Exercise 5a: Edit a feature Exercise 5b: Create a new park feature	175 186

Lesson 6: Conduct the analysis	195
Exercise 6a: Establish proximity zones Exercise 6b: Apply demographic constraints Exercise 6c: Select suitable parcels Exercise 6d: Clean up the map and geodatabase Exercise 6e: Evaluate results	198 207 213 228 236
Lesson 7: Automate the analysis	241
Exercise 7a: Set up the model Exercise 7b: Build the model (Part I) Exercise 7c: Build the model (Part 2) Exercise 7d: Run the model as a tool Exercise 7e: Document and share the model	243 247 259 269 276
Lesson 8: Present analysis results	289
Exercise 8a: Create the main map Exercise 8b: Place inset maps and graphs Exercise 8c: Finish the map	293 309 323
Lesson 9: Share results online	345
Appendix A: Analysis issues	349
Appendix B: Data and photo credits and data license agreement	359
Index	365