

BRIEF CONTENTS

Acknowledgments xix

Introduction xxi

PART I: FROM SPREADSHEETS TO DATAFRAMES. 1

Chapter 1: Getting Started with Python. 3

Chapter 2: Displaying Data and Understanding Data Types 11

Chapter 3: Creating and Manipulating Dataframes and Lists. 25

Chapter 4: Adding, Modifying, and Calculating Column Data 49

Chapter 5: Accessing and Transforming Individual Cell Values 77

Chapter 6: Filtering and Displaying Dataframes. 105

PART II: TOOLS TO REPLICATE EXCEL FUNCTIONALITY 137

Chapter 7: Counting and Summing Values 139

Chapter 8: Merging Dataframes 167

Chapter 9: Formatting and Calculating Dates and Times. 189

PART III: WORKFLOW TECHNIQUES 207

Chapter 10: Reading Excel Files into Dataframes. 209

Chapter 11: Saving Dataframes to Excel. 223

Chapter 12: There and Back Again: An Excel–Python–Excel Workflow. 249

Appendix A: Working with Folders, Files, and Pathnames. 285

Appendix B: Cleaning Up a Messy Spreadsheet 295

Appendix C: The Ducks Module. 305

Python Quick Reference 311

Index 313