

Contents

Acknowledgments ix

Section 1 Discovering Imagery

Chapter 1 Introduction 3

Chapter 2 Thinking About Imagery 11

Chapter 3 Imagery Fundamentals 27

Chapter 4 Choosing and Accessing the Right Imagery 69

Section 2 Using Imagery

Chapter 5 Working with Imagery 107

Chapter 6 Imagery Processing: Controlling Unwanted Variation in the Imagery 145

Section 3 Extracting Information from Imagery

Chapter 7 Understanding Variation on the Ground—the Importance of the Classification Scheme 179

Chapter 8 Digital Elevation Models 219

Chapter 9 Data Exploration: Tools for Linking Variation in the Imagery to Variation on the Ground 229

Chapter 10 Image Classification 267

Chapter 11 Change Analysis 313

Section 4 Managing Imagery and GIS Data

Chapter 12 Accuracy Assessment 337

Chapter 13 Managing and Serving Imagery 361

Chapter 14 Concluding Thoughts 385

Acronyms 393

Glossary 399

References 411

Image Credits 415

Index 417