## CONTENTS

Preface		VI
Introduction	D	
Chapter 1	Using Python in labeling and field calculations	
Tutoria	al 1-1 Python introduction and formatting labels	
Tutoria	al 1-2 Decision making in the Label Expression dialog box	1
Tutoria	al 1-3 Using Python in the Field Calculator	1
Tutoria	2	
Tutoria	al 1-5 Working with Python date formats	3
Chapter 2	Writing stand-alone Python scripts	3
Special introduction: Working with Python		4
Tutoria	4	
Tutoria	al 2-2 Scripting geoprocessing tasks	5
Tutoria	al 2-3 Coding for multiple geoprocessing tasks	6
Tutoria	6	
Tutoria	7	
Tutoria	al 2-6 Building script tools	8
Tutoria	al 2-7 Using cursors	10
Tutoria	al 2-8 Combining loops	11:
Tutoria	al 2-9 Creating custom toolbars	12
Chapter 3	The ArcPy mapping module	129
Tutoria	al 3-1 Accessing map document elements	12
Tutorial 3-2 Controlling the map extent		14
Tutoria	al 3-3 Creating a map series	15
Chapter 4	Python toolboxes	17
Tutorial 4-1 Creating a Python toolbox		17
Tutorial 4-2 Setting up value validation		18-
Tutoria	al 4-3 Setting up dependencies	19.

## VI Contents

Chapter 5	Python add-ins	203
Special i	introduction: Python add-ins	204
Tutorial	5-1 Creating a Python add-in application	222
Tutorial	5-2 Using buttons and combo boxes	229
Tutorial	5-3 Using tools to interact with the map	242
Appendix A	a: Using an IDE for Python scripting	257
Appendix B	: Tool index	263
Appendix C	: Data source credits	269