



CONTENTS

Introduction	ix
Acknowledgments	xi
Getting started	xiii
How to use this book	xix
1 Exploring ArcGIS® Pro for ArcGIS Utility Network	1
Introduction	1
Tutorial 1-1: Walking through ArcGIS Pro	2
Tutorial 1-2: Exploring ArcGIS Utility Network geoprocessing tools	5
Take the next step	6
Summary	6
2 Basic editing in ArcGIS Utility Network	7
Introduction	7
Tutorial 2-1: Walking through the basics of editing	8
Take the next step	12
Summary	13
3 Creating feature templates	14
Introduction	14
Tutorial 3-1: Building feature templates using group templates	15
Tutorial 3-2: Building feature templates using preset templates from selected features	20
Take the next step	24
Summary	24
4 Overview of structure and domain networks with tiers	25
Introduction	25
Tutorial 4-1: Exploring the structure network	26
Tutorial 4-2: Working with domain networks	31
Tutorial 4-3: Examining tier definitions	36
Take the next step	37
Summary	37

5	Applying feature subtypes using asset groups and asset types	38
	Introduction	38
	Tutorial 5-1: Introduction to subtypes	39
	Tutorial 5-2: Configuring default asset types	42
	Take the next step	44
	Summary	44
6	Terminals and controllers	45
	Introduction	45
	Tutorial 6-1: Configuring and setting terminals on a device	46
	Tutorial 6-2: Set a subnetwork controller	49
	Take the next step	52
	Summary	52
7	Using network attributes and categories	53
	Introduction	53
	Tutorial 7-1: Exploring properties and management of network categories	54
	Tutorial 7-2: Exploring the composition and impacts of network attributes	55
	Take the next step	59
	Summary	59
8	Applying network rules and validating data	60
	Introduction	60
	Tutorial 8-1: Examining different types of network rules	61
	Tutorial 8-2: Working with network rules in editing	65
	Take the next step	67
	Summary	67
9	Using the error inspector to resolve error features	68
	Introduction	68
	Tutorial 9-1: Exploring the error inspector	69
	Take the next step	73
	Summary	73
10	Creating trace locations	74
	Introduction	74
	Tutorial 10-1: Creating starting points	75
	Tutorial 10-2: Creating barriers	78
	Take the next step	79
	Summary	80

11	Using a basic connected trace	81
	Introduction	81
	Tutorial 11-1: Configuring and running a connected trace	82
	Take the next step	85
	Summary	85
12	Using directional traces	86
	Introduction	86
	Tutorial 12-1: Working with a downstream trace	87
	Tutorial 12-2: Working with an upstream trace	88
	Take the next step	90
	Summary	90
13	Applying function barriers	91
	Introduction	91
	Tutorial 13-1: Understanding and creating function barriers	92
	Tutorial 13-2: Understanding and creating filter function barriers	94
	Take the next step	97
	Summary	98
14	Using condition and filter barriers	99
	Introduction	99
	Tutorial 14-1: Creating and accessing a condition barrier	100
	Tutorial 14-2: Creating a filter barrier	105
	Take the next step	106
	Summary	107
15	Working with functions	108
	Introduction	108
	Tutorial 15-1: Creating a function	109
	Take the next step	113
	Summary	113
16	Working with trace output configurations	114
	Introduction	114
	Tutorial 16-1: Using output asset types	115
	Tutorial 16-2: Using output conditions	117
	Tutorial 16-3: Using result types	119
	Take the next step	124
	Summary	124

17	Working with network diagrams	125
	Introduction	125
	Tutorial 17-1: Creating a network diagram from a traced subnetwork	126
	Take the next step	130
	Summary	130
18	Modifying diagrams with layout configurations	131
	Introduction	131
	Tutorial 18-1: Applying a layout to a network diagram	132
	Take the next step	138
	Summary	138
19	Configuring network controllers	139
	Introduction	139
	Tutorial 19-1: Evaluating the subnetwork controller definition and creating a controller	140
	Take the next step	143
	Summary	144
20	Managing subnetworks	145
	Introduction	145
	Tutorial 20-1: Updating and managing a subnetwork	146
	Take the next step	153
	Summary	153
	Conclusion	154
	Glossary	155