

Contents

	<i>Foreword</i>	page xi
	<i>Preface</i>	xiii
	<i>Acknowledgments</i>	xvii
Part I Town Patterns, Processes, Change		
1	Town, Village, and Land Spatial Patterns	3
	Framework	4
	Town Sizes, Types, and Forms	9
	Anatomy of Towns and Villages	19
	Land Surrounding Towns	31
	Hybrid Nature–Euclid Patterns	35
2	Flows and Movements	40
	Flows/Movements around Towns	40
	Flows/Movements through Land Mosaics	52
	Increasing and Decreasing Rates of Flows/Movements	60
	Distance Effects of a Town	62
3	Change	72
	Time and Change in Towns	72
	Characteristics of a Trajectory	85
	Changing Towns	93
	Development Outside Towns	100
4	Human Dimensions	105
	Living in a Town or Village	105
	Culture and Character	111
	Economics, Jobs, and Commercial/Industrial Areas	122
	Social Patterns and Policy/Planning	133

Part II Ecological Dimensions of Towns

5	Soil, Chemicals, Air	141
	Town Soil	141
	Town Chemicals and Their Sources	159
	Chemicals in Ecological and Human Use	165
	Air in Towns	172
	Sound and Noise	182
6	Water Systems and Waterbodies	192
	Water Flows, Water Supply, and Towns	192
	Wastewater and Stormwater	200
	Wetlands and Towns	209
	Ponds, Lakes, and Towns	217
	Streams, Rivers, and Towns	231
	Coastal Zone	241
7	Plants, Habitats, Greenspaces	247
	Town Trees	247
	Plant Distribution and Diversity	253
	Species Movement and Change	266
	Greenspace Patterns	276
	Habitat Diversity	285
8	Patterns of Wildlife and Other Animals	292
	Understanding Town Animals	292
	Wildlife of Residential Habitats	298
	Wildlife of Town Corridors and Patch Habitats	306
	Dogs, Cats, Farm Animals	316
	Artificial Night Lighting and Flying Fauna	331
Part III Town and Land Interactions		
9	Commercial, Industrial, and Residential Areas	343
	Commercial Town Centers	343
	Edge-of-Town Commercial Centers	350
	Industrial Centers	353
	Residential Areas and the Town	362
10	Cropland, Pastureland, and Towns	374
	Cropland and the Landscape	374
	Biodiversity, Crops, Soil, and Water	381

	Grassland, Livestock, and Grazing	388
	Ecological Patterns in Grassland	393
	To and from Town and the Adjacent Zone	396
11	Forestland, Aridland, and Towns	405
	Town/Village and Its Adjacent Forest Zone	406
	Town/Village and Its Outer Surrounding Forestland	414
	Water and Livelihoods in Aridland	426
	Flows Between Desert Town and Surroundings	432
12	Tying Transportation, Towns, and Land Together	439
	Corridors and Networks	442
	Towns, Villages, and Land	454
	Flows/Movements across the Land	461
	City and Town-Centric Land Mosaics	466
Part IV Town Ecology Principles and Solutions		
13	Toward Better Towns, Better Land	473
	Towns and Town Ecology Principles	473
	Ecology in Planning Towns and Surrounding Land	480
	Illustrative Goals/Solutions for Towns and Land Types	487
	Towns in a Regional, Global Context	499
	<i>Appendix: Population Centers Examined</i>	507
	<i>References</i>	513
	<i>Index</i>	569

Color plates can be found between pages 270 and 271.