

Brief Contents

	1 Introduction to Ecology: Historical Foundations and Developing Frontiers	1
Section I	Natural History and Evolution	11
	2 Life on Land	11
	3 Life in Water	45
	4 Population Genetics and Natural Selection	77
Section II	Adaptations to the Environment	99
	5 Temperature Relations	99
	6 Water Relations	125
	7 Energy and Nutrient Relations	149
	8 Social Relations	173
Section III	Population Ecology	198
	9 Population Distribution and Abundance	198
	10 Population Dynamics	218
	11 Population Growth	241
	12 Life Histories	258
Section IV	Interactions	282
	13 Competition	282
	14 Exploitative Interactions: Predation, Herbivory, Parasitism, and Disease	303
	15 Mutualism	331
Section V	Communities and Ecosystems	352
	16 Species Abundance and Diversity	352
	17 Species Interactions and Community Structure	372
	18 Primary and Secondary Production	392
	19 Nutrient Cycling and Retention	414
	20 Succession and Stability	435
Section VI	Large-Scale Ecology	460
	21 Landscape Ecology	460
	22 Geographic Ecology	484
	23 Global Ecology	506
	Appendix Statistical Tables	529