

# Contents

Preface	vii
Acknowledgments	xi
Part 1 <i>The Framework of Coevolutionary Biology</i>	
1 The Overall Argument	3
2 Raw Materials for Coevolution I: Populations, Species, and Lineages	11
3 Raw Materials for Coevolution II: Ecological Structure and Distributed Outcomes	34
4 Local Adaptation I: Geographic Selection Mosaics	50
5 Local Adaptation II: Rates of Adaptation and Classes of Coevolutionary Dynamics	72
6 The Conceptual Framework: The Geographic Mosaic Theory of Coevolution	97
7 Coevolutionary Diversification	136
8 Analyzing the Geographic Mosaic of Coevolution	163
Part 2 <i>Specific Hypotheses on the Classes of Coevolutionary Dynamics</i>	
9 Antagonists I: The Geographic Mosaic of Coevolving Polymorphisms	175
10 Antagonists II: Sexual Reproduction and the Red Queen	205
11 Antagonists III: Coevolutionary Alternation and Escalation	227

12	Mutualists I: Attenuated Antagonism and Mutualistic Complementarity	246
13	Mutualists II: The Geographic Mosaic of Mutualistic Symbioses	270
14	Mutualists III: Convergence within Mutualistic Networks of Free-Living Species	288
15	Coevolutionary Displacement	314
16	Applied Coevolutionary Biology	339
	Appendix: Major Hypotheses on Coevolution	365
	Literature Cited	371
	Index	427