

CONTENTS

Foreword	<i>James P. Collins</i>	ix
----------	-------------------------	----

INTRODUCTION

1. A General Theory of Ecology	3
<i>Samuel M. Scheiner and Michael R. Willig</i>	

PERSPECTIVES ON THE ROLE OF THEORY IN ECOLOGY

2. Theory Makes Ecology Evolve	21
<i>Jurek Kolasa</i>	
3. A General, Unifying Theory of Ecology?	51
<i>Jay Odenbaugh</i>	

CONSTITUENT THEORIES OF ECOLOGY

4. Foraging Theory	65
<i>Andrew Sih</i>	
5. Ecological Niche Theory	93
<i>Jonathan M. Chase</i>	
6. Single Species Population Dynamics and Its Theoretical Underpinnings	109
<i>Alan Hastings</i>	
7. Natural Enemy-Victim Interactions: Do We Have a Unified Theory Yet?	125
<i>Robert D. Holt</i>	

8. The Metacommunity Concept and Its Theoretical Underpinnings	163
<i>Mathew A. Leibold</i>	
9. Domain and Propositions of Succession Theory	185
<i>Steward T. A. Pickett, Scott J. Meiners, and Mary L. Cadenasso</i>	
10. The Equilibrium Theory of Island Biogeography	219
<i>Dov F. Sax and Steven D. Gaines</i>	
11. Theory of Ecosystem Ecology	243
<i>Ingrid C. Burke and William K. Lauenroth</i>	
12. Perspectives on Global Change Theory	261
<i>Debra P. C. Peters, Brandon T. Bestelmeyer, and Alan K. Knapp</i>	
13. Ecological Gradient Theory: A Framework for Aligning Data and Models	283
<i>Gordon A. Fox, Samuel M. Scheiner, and Michael R. Willig</i>	
14. Biogeographical Gradient Theory	309
<i>Robert K. Colwell</i>	

SYNTHESIS

15. The State of Theory in Ecology	333
<i>Michael R. Willig and Samuel M. Scheiner</i>	
Acknowledgments	349
Contributors	351
Bibliography	353
Index	401