

1. Record Nr.	UNINA9910702147703321
Autore	Peters James Arthur <1922-1972.>
Titolo	A new approach in the analysis of biogeographic data [[electronic resource] /] / James A. Peters
Pubbl/distr/stampa	Washington, D.C. : , : Smithsonian Institution Press, , 1971
Descrizione fisica	1 online resource (28 pages) : illustrations
Collana	Smithsonian contributions to zoology ; ; no. 107
Soggetti	Biogeography Order statistics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed Nov. 5, 2009).
Nota di bibliografia	Includes bibliographical references (pages 27-28).

2. Record Nr.	UNICASPUV0260907
Titolo	1 / par H. Gregoire
Pubbl/distr/stampa	Amsterdam, : Adolf M. Hakkert, 1968
Edizione	[Reimpression]
Descrizione fisica	III, 128 p. ; 31 cm
Disciplina	411.7
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
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Note generali	Ripr. facs. dell'ed.: Paris : Leroux, 1922.
3. Record Nr.	UNINA9910784548203321
Titolo	Ecological paradigms lost [[electronic resource]] : routes of theory change // [editors] Kim Cuddington, Beatrix E. Beisner
Pubbl/distr/stampa	Amsterdam ; ; Boston, : Elsevier Academic Press, c2005
ISBN	1-280-63052-3 9786610630523 0-08-045786-X
Descrizione fisica	1 online resource (459 p.)
Collana	Theoretical ecology series
Altri autori (Persone)	CuddingtonKim BeisnerBeatrix E
Disciplina	577.01
Soggetti	Ecology - History Ecology - Philosophy
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Formato	Materiale a stampa
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Nota di contenuto	Foreword; PREFACE; LIST OF CONTRIBUTORS; 1: WHY A HISTORY OF ECOLOGY? AN INTRODUCTION; REFERENCES; PART I: POPULATION

ECOLOGY; 2: UNSTRUCTURED MODELS IN ECOLOGY: PAST, PRESENT, AND FUTURE; 2.1 INTRODUCTION; 2.2 THE BASIC (DETERMINISTIC) UNSTRUCTURED MODELS; 2.3 SINGLE SPECIES; 2.3.1 Continuous Time; 2.3.2 Discrete Time; 2.4 TWO SPECIES; 2.4.1 Continuous Time Exploiter-Victim Models; 2.4.2 Nicholson-Bailey Discrete Time Models; 2.4.3 SIR Epidemiological Models; 2.4.4 Competition; 2.5 MORE THAN TWO SPECIES; 2.6 TIME SERIES AND MODEL FITTING; 2.7 THE FUTURE OF UNSTRUCTURED MODELS

ACKNOWLEDGEMENTS REFERENCES; 3: UNSTRUCTURED POPULATION MODELS: DO POPULATION-LEVEL ASSUMPTIONS YIELD GENERAL THEORY?; 3.1 INTRODUCTION; 3.2 CORE THEORY OR LIMITING CASE?; 3.3 DERIVING GENERAL POPULATION MODELS: STARTING WITH THE INDIVIDUAL; 3.4 THREE CASE STUDIES; 3.4.1 Consumer-Resource Interactions; 3.4.2 Tritrophic Food Chain; 3.4.3 Cannibalism; 3.4.4 Overall Conclusions; 3.5 AN APPROPRIATE MODELLING FRAMEWORK: PHYSIOLOGICALLY STRUCTURED POPULATION MODELS; 3.6 ON TESTABILITY; 3.7 DISCUSSION AND CONCLUDING REMARKS; ACKNOWLEDGEMENTS; REFERENCES

4: THE "STRUCTURE" OF POPULATION ECOLOGY: PHILOSOPHICAL REFLECTIONS ON UNSTRUCTURED AND STRUCTURED MODELS 4.1 INTRODUCTION; 4.2 MODELS, MODELS, AND MORE MODELS; 4.3 REVISITING MODELLING TRADE-OFFS; 4.4 GENERALITY?; 4.5 REDUCTIONISM REDUX; 4.6 STRUCTURAL PLURALISM; 4.7 CONCLUSION; ACKNOWLEDGEMENTS; REFERENCES; PART II: EPIDEMIOLOGICAL ECOLOGY; 5: THE LAW OF MASS-ACTION IN EPIDEMIOLOGY: A HISTORICAL PERSPECTIVE; 5.1 INTRODUCTION; 5.2 CATO MAXIMILIAN GULDBERG AND PETER WAAGE; 5.3 WILLIAM HEATON HAMER; 5.4 RONALD ROSS AND ANDERSON MCKENDRICK; 5.5 HERBERT EDWARD SOPER; 5.6 A SCIENCE TAKING FLIGHT

ACKNOWLEDGEMENTS REFERENCES; 6: EXTENSIONS TO MASS-ACTION MIXING; 6.1 INTRODUCTION; 6.2 FUNCTIONAL FORMS; 6.3 METAPOPULATION MODELS; 6.4 CELLULAR AUTOMATA; 6.5 NETWORK MODELS; 6.6 ANALYTICAL APPROXIMATIONS: POWER-LAW EXPONENTS; 6.7 ANALYTICAL APPROXIMATIONS: PAIR-WISE MODELS; 6.8: ANALYTICAL APPROXIMATIONS: MOMENT CLOSURE; 6.9: CONCLUSIONS; REFERENCES; 7: MASS-ACTION AND SYSTEM ANALYSIS OF INFECTION TRANSMISSION; 7.1 INTRODUCTION; 7.2 MODEL FORMS AS PARADIGMS FOR THEORY CHANGE; 7.3 ROBUSTNESS ASSESSMENT; 7.4 ADVANCING A SCIENCE OF INFECTION TRANSMISSION SYSTEM ANALYSIS; REFERENCES

PART III: COMMUNITY ECOLOGY 8: COMMUNITY DIVERSITY AND STABILITY: CHANGING PERSPECTIVES AND CHANGING DEFINITIONS; 8.1 INTRODUCTION; 8.2 HISTORY; 8.3 MULTIPLE TYPES OF STABILITY IN A MODEL ECOSYSTEM; 8.3.1 The 1970's and 1980's; 8.3.2 The 1950's and 1960's; 8.3.3 The 1990's; 8.3.4 Summary; 8.4 TESTING RELATIONSHIPS BETWEEN DIVERSITY AND STABILITY; 8.4.1 The 1950's and 1960's; 8.4.2 The 1970's and 1980's; 8.4.3 The 1990's; 8.4.4 Summary; 8.5 SUGGESTIONS FOR SPECIFIC "TESTS"; Q1: What Is the Most Appropriate Measure of Diversity?; Q2: How Strong Are Species Interactions, and Are They Linear and Additive? Q3: What Dictates the Structure of Communities?

Sommario/riassunto

This edited volume in the Theoretical Ecology series addresses the historical development and evolution of theoretical ideas in the field of ecology. Not only does it recount the history of the discipline by practitioners of the science of ecology, it includes commentary on these historical reflections by philosophers of science. Even though the theories discussed are, in many cases, at the forefront of research, the language and approach make this material accessible to non-

theoreticians. The book is structured in 5 major sections including population ecology, epidemiology
