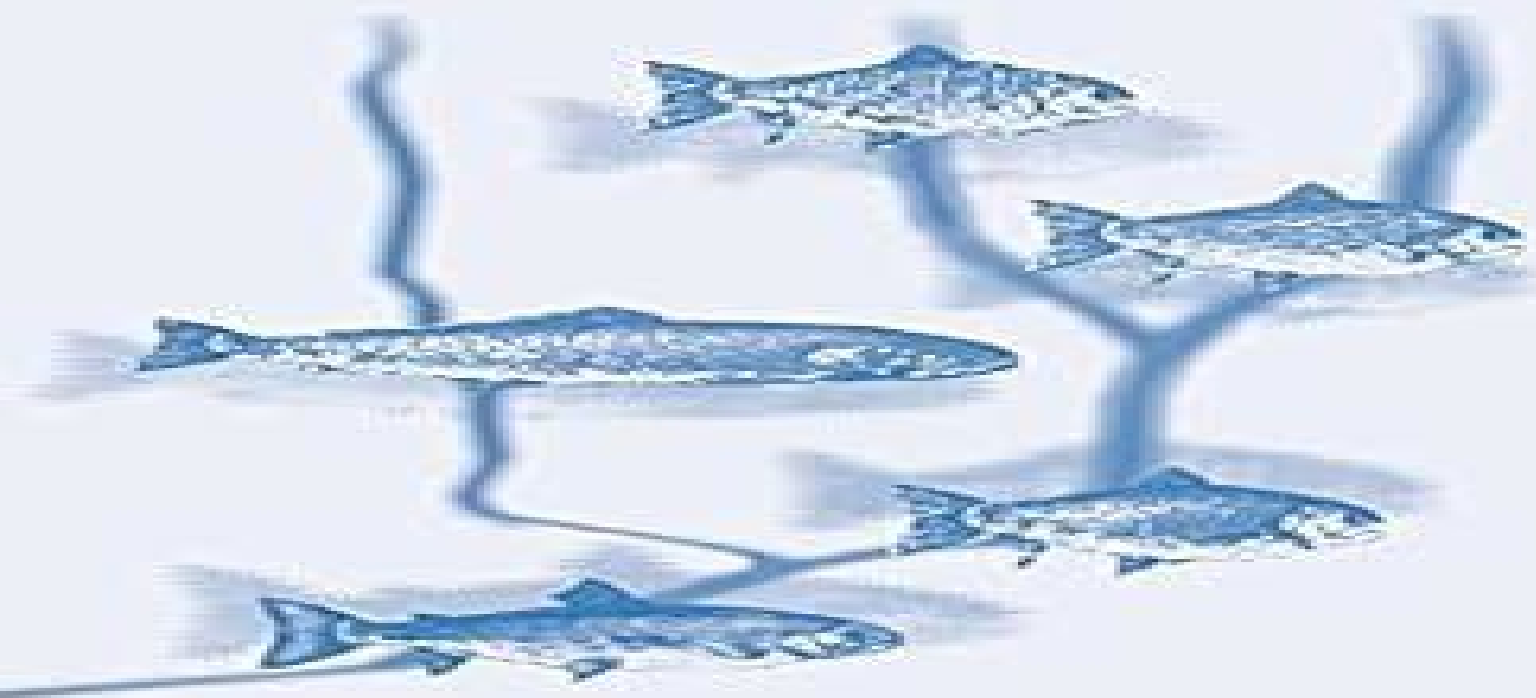


Cambridge Studies in Adaptive Dynamics

Adaptive Speciation



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U. Dieckmann, M. Doebeli, J.A.J. Metz, and D. Tautz

Adaptive Speciation Cambridge Studies In Adaptive Dynamics

Alan Hastings, Louis J. Gross



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Adaptive Speciation, 2004 **Adaptive Diversification** Michael Doebeli, 2011-08-21 Adaptive biological diversification occurs when frequency dependent selection generates advantages for rare phenotypes and induces a split of an ancestral lineage into multiple descendant lineages Using adaptive dynamics theory individual based simulations and partial differential equation models this book illustrates that adaptive diversification due to frequency dependent ecological interaction is a theoretically ubiquitous phenomenon Provided by publisher **The Adaptive Landscape in Evolutionary Biology** Erik Svensson, Ryan Calsbeek, 2012-05-17 The Adaptive Landscape has been a central concept in population genetics and evolutionary biology since this powerful metaphor was first formulated by Sewall Wright in 1932 Eighty years later it has become a central framework in evolutionary quantitative genetics selection studies in natural populations and in studies of ecological speciation and adaptive radiations Recently the simple concept of adaptive landscapes in two dimensions genes or traits has been criticized and several new and more sophisticated versions of the original adaptive landscape evolutionary model have been developed in response No published volume has yet critically discussed the past present state and future prospect of the adaptive landscape in evolutionary biology This volume brings together prominent historians of science philosophers ecologists and evolutionary biologists with the aim of discussing the state of the art of the Adaptive Landscape from several different perspectives *Branching Processes* Patsy Haccou, Peter Jagers, Vladimir A. Vatutin, 2005-05-19 This book covers the mathematical idea of branching processes and tailors it for a biological audience *Encyclopedia of Theoretical Ecology* Alan Hastings, Louis J. Gross, 2012-05-31 A bold and successful attempt to illustrate the theoretical foundations of all of the subdisciplines of ecology including basic and applied and extending through biophysical population community and ecosystem ecology *Encyclopedia of Theoretical Ecology* is a compendium of clear and concise essays by the intellectual leaders across this vast breadth of knowledge Harold Mooney Stanford University A remarkable and indispensable reference work that also is flexible enough to provide essential readings for a wide variety of courses A masterful collection of authoritative papers that convey the rich and fundamental nature of modern theoretical ecology Simon A Levin Princeton University Theoretical ecologists exercise their imaginations to make sense of the astounding complexity of both real and possible ecosystems Imagining a real or possible topic left out of the *Encyclopedia of Theoretical Ecology* has proven just as challenging This comprehensive compendium demonstrates that theoretical ecology has become a mature science and the volume will serve as the foundation for future creativity in this area Fred Adler University of Utah The editors have assembled an outstanding group of contributors who are a great match for their topics Sometimes the author is a key authoritative figure in a field and at other times the author has enough distance to convey all sides of a subject The next time you need to introduce ecology students to a theoretical topic you ll be glad to have this encyclopedia on your bookshelf Stephen Ellner Cornell University Everything you wanted to know about theoretical ecology and much that

you didn't know you needed to know but will now Alan Hastings and Louis Gross have done us a great service by bringing together in very accessible form a huge amount of information about a broad complicated and expanding field Daniel Simberloff University of Tennessee Knoxville

Evolutionary Conservation Biology Régis Ferrière, Ulf Dieckmann, Denis Couvet, 2004-06-10 As anthropogenic environmental changes spread and intensify across the planet conservation biologists have to analyze dynamics at large spatial and temporal scales Ecological and evolutionary processes are then closely intertwined In particular evolutionary responses to anthropogenic environmental change can be so fast and pronounced that conservation biology can no longer afford to ignore them To tackle this challenge areas of conservation biology that are disparate ought to be integrated into a unified framework Bringing together conservation genetics demography and ecology this book introduces evolutionary conservation biology as an integrative approach to managing species in conjunction with ecological interactions and evolutionary processes Which characteristics of species and which features of environmental change foster or hinder evolutionary responses in ecological systems How do such responses affect population viability community dynamics and ecosystem functioning Under which conditions will evolutionary responses ameliorate rather than worsen the impact of environmental change

Advances in Freshwater Decapod Systematics and Biology Darren Yeo, Neil Cumberlidge, Sebastian Klaus, 2014-07-31 Decapods are the largest most prominent and unfortunately most threatened freshwater crustaceans Advances in Freshwater Decapod Systematics and Biology presents a selection of papers by geographical and domain experts in taxonomy phylogenetics biogeography life history and conservation The major groups of freshwater decapods crabs crayfish prawns and anomurans are all represented This volume includes a chapter commemorating Richard Bott's influence on freshwater crab decapod biology descriptions of seven new species Atyidae Aeglidae Pseudothelphusidae Potamidae and Sesamidae chapters on larval based phylogenetics and molecular clock calibration and reviews of longevity and mortality and of the global conservation status of freshwater decapods This volume both reflects the current state of research and serves as a primer for future work and more integrative decapod research Contributors include Shane T Ahyong Klaus Anger Georgina Bond Buckup Ludwig Buckup Yixiong Cai Christian Clavijo Neil Cumberlidge James M Furse Alberto S Gonçalves Guillermo Guerao Alireza Keikhosravi Sebastian Klaus Tain G Loureiro Clio Magalhães Fernando L Mantelatto Jose C E Mendoza Jr me Prieto Silke Reuschel Vitor Q A Sanches Tobias Santl Sandro Santos Fabrizio Scarabino Christoph D Schubart Michael T rkay Ana Verdi G nter Vogt and Darren C J Yeo

Aquatic Animal Nutrition Christian E. W. Steinberg, 2018-09-26 This book is a unique cross fertilization of aquatic ecology and aquaculture It shows how diets structure the digestive tract and its microbiota and in turn the microbiota influences life history traits of its host including behavior Short term starvation can have beneficial effects on individuals themselves and succeeding generations which may acquire multiple stress resistances a mechanism strengthening the persistence of populations From terrestrial but not yet from aquatic animals it is understood that circadian the rhythmicity makes toxins or

good food On the long term the dietary basis impacts succeeding generations and can trigger a sympatric speciation by epigenetics This volume defines gaps in nutritional research and practice of farmed fishes and invertebrates by referring to knowledge from marine and freshwater biology It also points out that dietary benefits and deficiencies have effects on several succeeding generations indicating that well designed diets may have the potential to successfully improve broodstock and breeding effort *Theory-based Ecology* Liz Pásztor,Zoltán Botta-Dukát,Gabriella Magyar,Tamás Czárán,Géza

Meszéna,2016 The first text to adopt a Darwinian approach to develop a universal coherent and robust theory of ecology and provide a unified treatment of ecology and evolution **Ammonoid Paleobiology: From macroevolution to**

paleogeography Christian Klug,Dieter Korn,Kenneth De Baets,Isabelle Kruta,Royal H. Mapes,2015-07-22 This two volume work is a testament to the abiding interest and human fascination with ammonites We offer a new model to explain the morphogenesis of septa and the shell we explore their habitats by the content of stable isotopes in their shells we discuss the origin and later evolution of this important clade and we deliver hypotheses on its demise The Ammonoidea produced a great number of species that can be used in biostratigraphy and possibly this is the macrofossil group which has been used the most for that purpose Nevertheless many aspects of their anatomy mode of life development or paleobiogeographic distribution are still poorly known Themes treated are biostratigraphy paleoecology paleoenvironment paleobiogeography evolution phylogeny and ontogeny Advances such as an explosion of new information about ammonites new technologies such as isotopic analysis tomography and virtual paleontology in general as well as continuous discovery of new fossil finds have given us the opportunity to present a comprehensive and timely state of the art compilation Moreover it also points the way for future studies to further enhance our understanding of this endlessly fascinating group of organisms

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