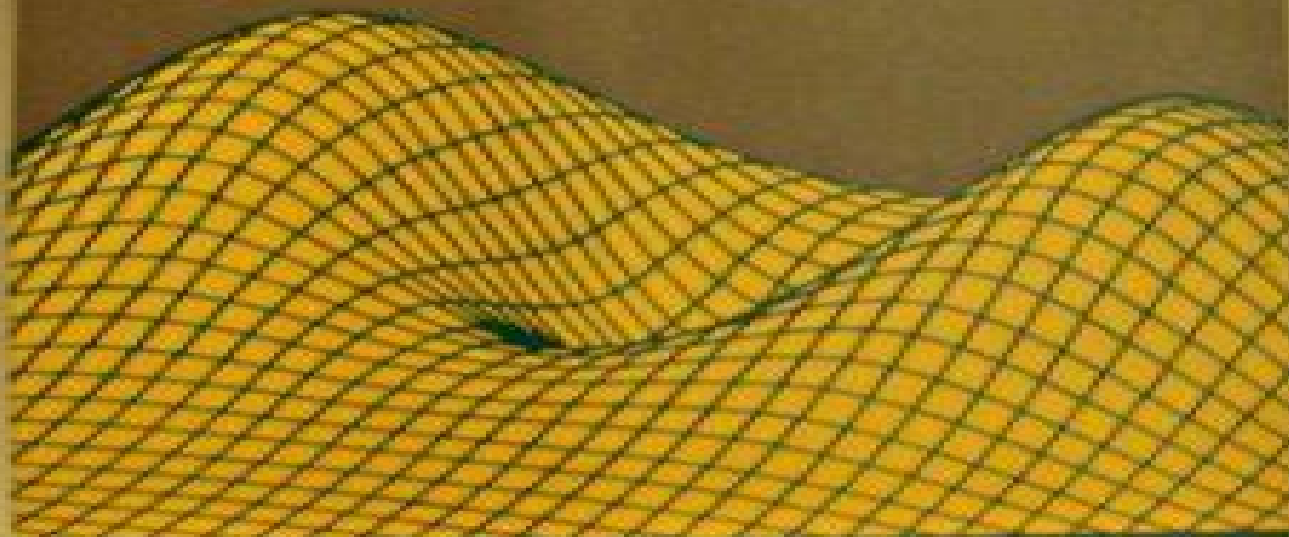


MACRO- EVOLUTIONARY DYNAMICS



SPECIES, NICHES,
& ADAPTIVE PEAKS
Niles Eldredge

Macroevolutionary Dynamics Species Niches And Adaptive Peaks

Emanuele Serrelli, Nathalie Gontier



Macroevolutionary Dynamics Species Niches And Adaptive Peaks:

Macroevolutionary Dynamics Niles Eldredge,1989 *Macroevolutionary Dynamics* Niles Eldredge,1989

Systematics, Ecology, and the Biodiversity Crisis Niles Eldredge,1992 This book explores the biological underpinnings of social systems from invertebrates to mammals particularly humans These social systems the authors argue represent fusions between the economic and reproductive interests of organisms Their theory reinstates the importance of economics in social organizations of all types moving away from the more prominent emphasis on reproductive biology at the core of sociobiology

International Handbook of Research in History, Philosophy and Science Teaching Michael R. Matthews,2014-07-03 This inaugural handbook documents the distinctive research field that utilizes history and philosophy in investigation of theoretical curricular and pedagogical issues in the teaching of science and mathematics It is contributed to by 130 researchers from 30 countries it provides a logically structured fully referenced guide to the ways in which science and mathematics education is informed by the history and philosophy of these disciplines as well as by the philosophy of education more generally The first handbook to cover the field it lays down a much needed marker of progress to date and provides a platform for informed and coherent future analysis and research of the subject The publication comes at a time of heightened worldwide concern over the standard of science and mathematics education attended by fierce debate over how best to reform curricula and enliven student engagement in the subjects There is a growing recognition among educators and policy makers that the learning of science must dovetail with learning about science this handbook is uniquely positioned as a locus for the discussion The handbook features sections on pedagogical theoretical national and biographical research setting the literature of each tradition in its historical context It reminds readers at a crucial juncture that there has been a long and rich tradition of historical and philosophical engagements with science and mathematics teaching and that lessons can be learnt from these engagements for the resolution of current theoretical curricular and pedagogical questions that face teachers and administrators Science educators will be grateful for this unique encyclopaedic handbook Gerald Holton Physics Department Harvard University This handbook gathers the fruits of over thirty years research by a growing international and cosmopolitan community Fabio Bevilacqua Physics Department University of Pavia Development and Evolution Stanley N. Salthe,1993 Development and Evolution surveys and illuminates the key themes of rapidly changing fields and areas of controversy that the redefining the theory and philosophy of biology It continues Stanley Salthe's investigation of evolutionary theory begun in his influential book *Evolving Hierarchical Systems* while negating the implicit philosophical mechanisms of much of that work Here Salthe attempts to reinitiate a theory of biology from the perspective of development rather than from that of evolution recognizing the applicability of general systems thinking to biological and social phenomena and pointing towards a non Darwinian and even a postmodern biology *Macroevolution* Emanuele Serrelli,Nathalie Gontier,2015-02-13 This book is divided in two parts the first of which shows how beyond paleontology and

systematics macroevolutionary theories apply key insights from ecology and biogeography developmental biology biophysics molecular phylogenetics and even the sociocultural sciences to explain evolution in deep time In the second part the phenomenon of macroevolution is examined with the help of real life history case studies on the evolution of eukaryotic sex the formation of anatomical form and body plans extinction and speciation events of marine invertebrates hominin evolution and species conservation ethics The book brings together leading experts who explain pivotal concepts such as Punctuated Equilibria Stasis Developmental Constraints Adaptive Radiations Habitat Tracking Turnovers Mass Extinctions Species Sorting Major Transitions Trends and Hierarchies key premises that allow macroevolutionary epistemic frameworks to transcend microevolutionary theories that focus on genetic variation selection migration and fitness Along the way the contributing authors review ongoing debates and current scientific challenges detail new and fascinating scientific tools and techniques that allow us to cross the classic borders between disciplines demonstrate how their theories make it possible to extend the Modern Synthesis present guidelines on how the macroevolutionary field could be further developed and provide a rich view of just how it was that life evolved across time and space In short this book is a must read for active scholars and because the technical aspects are fully explained it is also accessible for non specialists Understanding evolution requires a solid grasp of above population phenomena Species are real biological individuals and abiotic factors impact the future course of evolution Beyond observation when the explanation of macroevolution is the goal we need both evidence and theory that enable us to explain and interpret how life evolves at the grand scale *History and Evolution* Matthew H.

Nitecki, Doris V. Nitecki, 1992-07-01 The studies of evolutionary biology and of human history face the same kinds of problems and deal with the same processes Both disciplines deal with similar questions in similar ways but do the methods used produce comparable knowledge and are the differences and similarities between these disciplines real This book examines the philosophy of historical and evolutionary studies the objectivity and meanings of human and evolutionary histories the evolutionary approaches to and the analysis of history historical approaches and utilization of evolution the logic of historical and evolutionary thinking and explanations the identification of similarities differences and common problems of evolutionary biology and history and what constitutes the major historical and evolutionary events *The Cambridge Companion to*

Darwin Jonathan Hodge, Gregory Radick, 2009-03-05 The naturalist and geologist Charles Darwin 1809-82 ranks as one of the most influential scientific thinkers of all time In the nineteenth century his ideas about the history and diversity of life including the evolutionary origin of humankind contributed to major changes in the sciences philosophy social thought and religious belief *The Cambridge Companion to Darwin* has established itself as an indispensable resource for anyone teaching or researching Darwin's theories and their historical and philosophical interpretations Its distinguished team of contributors examines Darwin's main scientific ideas and their development Darwin's science in the context of its times the influence of Darwinian thought in recent philosophical social and religious debate and the importance of Darwinian thought for the future

of naturalist philosophy For this second edition coverage has been expanded to include two new chapters on Darwin Hume and human nature and on Darwin s theories in the intellectual long run from the pre Socratics to the present *The Cambridge Companion to Darwin* Michael Jonathan Sessions Hodge, Gregory Radick, 2003-05 The naturalist and geologist Charles Darwin 1809-82 ranks as one of the most influential scientific thinkers of all time In the nineteenth century his ideas about the history and diversity of life including the evolutionary origin of humankind contributed to major changes in the sciences philosophy social thought and religious belief This volume provides the reader with clear lively and balanced introductions to the most recent scholarship on Darwin and his intellectual legacies A distinguished team of contributors examines Darwin s main scientific ideas and their development Darwin s science in the context of its times the influence of Darwinian thought in recent philosophical social and religious debate and the importance of Darwinian thought for the future of naturalist philosophy New readers will find this the most convenient and accessible guide to Darwin currently available Advanced students and specialists will find a conspectus of recent developments in the interpretation of Darwin **Oxford**

Surveys in Evolutionary Biology Douglas Futuyma, Janis Antonovics, 1992-10-08 This new volume in the OSEB series presents reviews of key theoretical ideas and frameworks and outlines progress in evolutionary studies

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