# MACRO-EVOLUTIONARY DYNAMICS



SPECIES, NICHES, & ADAPTIVE PEAKS Niles Eldredge

## <u>Macroevolutionary Dynamics Species Niches And</u> <u>Adaptive Peaks</u>

**Niles Eldredge** 

## **Macroevolutionary Dynamics Species Niches And Adaptive Peaks:**

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

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 **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

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 anlysis 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 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 Oxford Surveys in Evolutionary Biology Douglas Futuyma, Janis Antonovics, 1992-10-08 This new volume in the Darwin OSEB series presents reviews of key theoretical ideas and frameworks and outlines progress in evolutionary studies 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 Reproductive Biology of Crustaceans Elena Mente, 2008-01-04 Crustaceans adapt to a wide variety of habitats and ways of life They have a complex physiological structure particularly with regard to the processes of growth molting metabolic regulation and reproduction Crustaceans are ideal as model organisms for the study of endocrine disruption and stress physiology in aquatic invertebrates This book Ethical Universe: the Vectors of Evil Vs. Good John W. McAlister, 2021-01-14 This book is the culmination of a 20 year project which synthesizes the work of renowned social philosopher and humanistic psychoanalyst neo Freudian Dr Erich Fromm and the best of Aristotle's Golden Means doctrine merged with Sigmund Freud's tripartite division of the human psyche ego id and superego This dynamic merger dictates a spherical representation of infinite blends of character traits Extreme therefore evil syndromes garishly emblazon the surface of the sphere Aristotle's practical wisdom and moral virtues Freud's genital character and Fromm's Productive Orientation electrifies the synergistic creative center of the sphere Friedrich Nietzsche's moral philosophy as well as Saint Thomas Aguinas provided excellent tests of our hypothesis Fore more on the author see the last section About the Author For humanistic ethics all evil strivings are directed against life and all good serves the preservation and unfolding of life Erich Fromm Man For Himself 1947 Fromm s affinity with Thomas Aguinas and the Christian theologian Paul Tillich shows us humanism and organized religion need not be hostile to each other John McAlister Ethical Universe 2008 Love ever your neighbor as yourselves but first be such as LOVE THEMSELVES Friedrich Nietzsche Thus Spake Zarathustra 1883 Lithic Technological Systems and Evolutionary Theory Society for American Archaeology. Annual Meeting, 2015-01-22 This collection of essays brings together several different evolutionary perspectives to demonstrate how lithic technological

systems are a byproduct of human behavior The essays cover a range of topics including human behavioral ecology cultural transmission phylogenetic analysis macroevolution and various applications of evolutionary ecology Phylogeny, Ecology, and Behavior Daniel R. Brooks, Deborah A. McLennan, 1991 The merits of this work are many A rigorous integration of phylogenetic hypotheses into studies of adaptation adaptive radiation and coevolution is absolutely necessary and can change dramatically our collective gestalt about much in evolutionary biology. The authors advance and illustrate this thesis beautifully The writing is often lucid the examples are plentiful and diverse and the juxtaposition of examples from different biological systems argues forcefully for the validity of the thesis Many new insights are offered here and the work is usually accessible to both the practiced phylogeneticist and the naive ecologist Joseph Travis Florida State University Phylogeny Ecology and Behavior presents its arguments forcefully and cogently with ample support Brooks and McLennan conclude as they began with the comment that evolution is a result not a process and that it is the result of an interaction of a variety of processes environmental and historical Evolutionary explanations must consider all these components else they are incomplete As Darwin's explanations of descent with modification integrated genealogical and ecological information so must workers now incorporate historical and nonhistorical and biological and nonbiological processes in their evolutionary perspective Marvalee H Wake Bioscience This book is well written and thought provoking and should be read by those of us who do not routinely turn to phylogenetic analysis when investigating adaptation evolutionary ecology and co evolution Mark R MacNair Journal of Natural History Advances in Artificial Life Federico Moran, 1995-05-24 This volume contains 71 revised refereed papers including seven invited surveys presented during the Third European Conference on Artificial Life ECAL 95 held in Granada Spain in June 1995 Originally AL was concerned with applying biologically inspired solutions to technology and with examining computational expertise in order to reproduce and understand life processes Despite its short history AL now is becoming a mature scientific field The volume reports the state of the art in this exciting area of research there are sections on foundations and epistemology origins of life and evolution adaptive and cognitive systems artificial worlds robotics and emulation of animal behavior societies and collective behavior biocomputing and applications and New Optimization Techniques in Engineering Godfrey C. Onwubolu, B. V. Babu, 2013-03-14 Presently common tools general purpose optimization techniques such as Simulated Annealing and Genetic Algorithms have become standard optimization techniques Concerted research efforts have been made recently in order to invent novel optimization techniques for solving real life problems which have the attributes of memory update and population based search solutions The book describes a variety of these novel optimization techniques which in most cases outperform the standard optimization techniques in many application areas New Optimization Techniques in Engineering reports applications and results of the novel optimization techniques considering a multitude of practical problems in the different engineering disciplines presenting both the background of the subject area and the techniques for solving the problems **Evolutionary** 

Economics Esben Sloth Andersen, 2013-09-13 First Published in 1996 Routledge is an imprint of Taylor Francis an informa company Introduction to Biosemiotics Marcello Barbieri, 2007-05-10 Combining research approaches from biology philosophy and linguistics the field of Biosemiotics proposes that animals plants and single cells all engage in semiosis the conversion of objective signals into conventional signs This has important implications and applications for issues ranging from natural selection to animal behavior and human psychology leaving biosemiotics at the cutting edge of the research on the fundamentals of life Drawing on an international expertise the book details the history and study of biosemiotics and provides a state of the art summary of the current work in this new field And with relevance to a wide range of disciplines from linguistics and semiotics to evolutionary phenomena and the philosophy of biology the book provides an important text for both students and established researchers while marking a vital step in the evolution of a new biological paradigm

**Sociobiology and Bioeconomics** Peter Koslowski, 2013-03-09 The theory of evolution and Neo Darwinian biological theory extend their analysis in sociobiology from the life sciences and the animal societies to human societies Sociobiology as a unifying theory of the social interaction within and between species has led to an integration of economic analysis into biology The economy of nature has become the subject of bioeconomics which in turn transferred biological analysis to the human economy Evolution competition selection and cooperation are phenomena common to the economy of nature and human economy The inclusion of economic and cultural theory in evolution theory raises the question whether the Neo Darwinian Synthesis with its exclusive concern with somatic heredity is able to incorporate developmental systems of the human economy and of cultural heredity A new synthesis of the natural and the social sciences is in the making The Philosophy of Biology Marjorie Grene, David Depew, 2004-08-02 Is life different from the non living If so how And how in that case does biology as the study of living things differ from other sciences. These questions are traced through an exploration of episodes in the history of biology and philosophy The book begins with Aristotle then moves on to Descartes comparing his position with that of Harvey In the eighteenth century the authors consider Buffon and Kant In the nineteenth century the authors examine the Cuvier Geoffroy debate pre Darwinian geology and natural theology Darwin and the transition from Darwin to the revival of Mendelism Two chapters deal with the evolutionary synthesis and such questions as the species problem the reducibility or otherwise of biology to physics and chemistry and the problem of biological explanation in terms of function and teleology The final chapters reflect on the implications of the philosophy of biology for philosophy of science in general

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