

Modeling Extinction

M.E.J. Newman
R.G. Palmer



A VOLUME IN THE
SANTA FE INSTITUTE STUDIES IN THE SCIENCES OF COMPLEXITY

Modeling Extinction

Kevin Gutzwiller



Modeling Extinction:

Modeling Extinction M. E. J. Newman, R. G. Palmer, 2003-02-20 Developed after a meeting at the Santa Fe Institute on extinction modeling this book comments critically on the various modeling approaches In the last decade or so scientists have started to examine a new approach to the patterns of evolution and extinction in the fossil record This approach may be called statistical paleontology since it looks at large scale patterns in the record and attempts to understand and model their average statistical features rather than their detailed structure Examples of the patterns these studies examine are the distribution of the sizes of mass extinction events over time the distribution of species lifetimes or the apparent increase in the number of species alive over the last half a billion years In attempting to model these patterns researchers have drawn on ideas not only from paleontology but from evolutionary biology ecology physics and applied mathematics including fitness landscapes competitive exclusion interaction matrices and self organized criticality A self contained review of work in this field

Modeling Extinction Mark E. J. Newman, Richard G. Palmer, 2003 In the last decade or so scientists have started to examine a new approach to the patterns of evolution and extinction in the fossil record This approach may be called statistical paleontology since it looks at large scale patterns in the record and attempts to understand and model their average statistical features rather than their detailed structure This book developed after a meeting at the Santa Fe Institute on extinction modeling comments critically on the various modeling approaches

Modeling Evolution of Heterogeneous Populations Irina Kareva, Georgy Karev, 2019-10-16 *Modeling Evolution of Heterogeneous Populations Theory and Applications* describes develops and provides applications of a method that allows incorporating population heterogeneity into systems of ordinary and discrete differential equations without significantly increasing system dimensionality The method additionally allows making use of results of bifurcation analysis performed on simplified homogeneous systems thereby building on the existing body of tools and knowledge and expanding applicability and predictive power of many mathematical models Introduces Hidden Keystone Variable HKV method which allows modeling evolution of heterogeneous populations while reducing multi dimensional selection systems to low dimensional systems of differential equations Demonstrates that replicator dynamics is governed by the principle of maximal relative entropy that can be derived from the dynamics of selection systems instead of being postulated Discusses mechanisms behind models of both Darwinian and non Darwinian selection Provides examples of applications to various fields including cancer growth global demography population extinction tragedy of the commons and resource sustainability among others Helps inform differences in underlying mechanisms of population growth from experimental observations taking one from experiment to theory and back

Conservation Biology Fred Van Dyke, 2008-02-29 Fred Van Dyke's new textbook *Conservation Biology Foundations Concepts Applications* 2nd Edition represents a major new text for anyone interested in conservation Drawing on his vast experience Van Dyke's organizational clarity and readable style make this book an invaluable resource for students in

conservation around the globe Presenting key information and well selected examples this student friendly volume carefully integrates the science of conservation biology with its implications for ethics law policy and economics **Ecological**

Modeling in Risk Assessment Robert A. Pastorok, Steven M. Bartell, Scott Ferson, Lev R. Ginzburg, 2016-04-19 Expanding the risk assessment toolbox this book provides a comprehensive and practical evaluation of specific ecological models for potential use in risk assessment Ecological Modeling in Risk Assessment Chemical Effects on Populations Ecosystems and Landscapes goes beyond current risk assessment practices for toxic chemicals as applied to individual organism endpoints to describe ecological effects models useful at the population ecosystem and landscape levels The authors demonstrate the utility of a set of ecological effects models eventually improving the ecological relevance of risk assessments and making data collection more cost effective **Mammoth Graveyards** Sierra Greenleaf, AI, 2025-02-15 Mammoth Graveyards explores the

mysteries held within concentrated deposits of mammoth remains offering insights into the Late Pleistocene extinction event These graveyards found across continents are not random bone accumulations but rather snapshots of past ecological conditions The book uniquely focuses on taphonomy the study of how these fossil sites formed to accurately reconstruct past environments and the lives of mammoths The book progresses by first introducing the geographic distribution and geological context of mammoth graveyards It then evaluates major extinction theories like climate change and human hunting using paleontological data such as radiocarbon dating and fossil analysis derived from the graveyards themselves A key argument is that rigorous scientific analysis of these sites reveals the complex interplay of factors contributing to megafaunal extinctions highlighting the need to consider multiple interacting elements rather than a single cause These findings inform current discussions about biodiversity loss and potential future extinctions **American Megafaunal Extinctions at the**

End of the Pleistocene Gary Haynes, 2008-12-23 The volume contains summaries of facts theories and unsolved problems pertaining to the unexplained extinction of dozens of genera of mostly large terrestrial mammals which occurred ca 13 000 calendar years ago in North America and about 1 000 years later in South America Another equally mysterious wave of extinctions affected large Caribbean islands around 5 000 years ago The coupling of these extinctions with the earliest appearance of human beings has led to the suggestion that foraging humans are to blame although major climatic shifts were also taking place in the Americas during some of the extinctions The last published volume with similar but not identical themes Extinctions in Near Time appeared in 1999 since then a great deal of innovative exciting new research has been done but has not yet been compiled and summarized Different chapters in this volume provide in depth resum s of the chronology of the extinctions in North and South America the possible insights into animal ecology provided by studies of stable isotopes and anatomical physiological characteristics such as growth increments in mammoth and mastodont tusks the clues from taphonomic research about large mammal biology the applications of dating methods to the extinctions debate and archeological controversies concerning human hunting of large mammals Extinctions in the History of Life Paul D.

Taylor,2004-11-11 Extinction is the ultimate fate of all biological species over 99 percent of the species that have ever inhabited the Earth are now extinct The long fossil record of life provides scientists with crucial information about when species became extinct which species were most vulnerable to extinction and what processes may have brought about extinctions in the geological past Key aspects of extinctions in the history of life are here reviewed by six leading palaeontologists providing a source text for geology and biology undergraduates as well as more advanced scholars Topical issues such as the causes of mass extinctions and how animal and plant life has recovered from these cataclysmic events that have shaped biological evolution are dealt with This helps us to view the biodiversity crisis in a broader context and shows how large scale extinctions have had profound and long lasting effects on the Earth s biosphere **Encyclopedia of**

Biodiversity ,2013-02-05 The 7 volume Encyclopedia of Biodiversity Second Edition maintains the reputation of the highly regarded original presenting the most current information available in this globally crucial area of research and study It brings together the dimensions of biodiversity and examines both the services it provides and the measures to protect it Major themes of the work include the evolution of biodiversity systems for classifying and defining biodiversity ecological patterns and theories of biodiversity and an assessment of contemporary patterns and trends in biodiversity The science of biodiversity has become the science of our future It is an interdisciplinary field spanning areas of both physical and life sciences Our awareness of the loss of biodiversity has brought a long overdue appreciation of the magnitude of this loss and a determination to develop the tools to protect our future Second edition includes over 100 new articles and 226 updated articles covering this multidisciplinary field from evolution to habits to economics in 7 volumes The editors of this edition are all well respected instantly recognizable academics operating at the top of their respective fields in biodiversity research readers can be assured that they are reading material that has been meticulously checked and reviewed by experts Approximately 1 800 figures and 350 tables complement the text and more than 3 000 glossary entries explain key terms

Plant Resource Utilization and Conservation Mr. Rohit Manglik,2024-07-03 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *Ecology, Genetics and Evolution of Metapopulations* Ilkka A.

Hanski,Oscar E. Gaggiotti,2004-05-17 Ecology Genetics and Evolution of Metapopulations is a collection of specially commissioned articles that looks at fragmented habitats bringing together recent theoretical advances and empirical studies applying the metapopulation approach Several chapters closely integrate ecology with genetics and evolutionary biology and others illustrate how metapopulation concepts and models can be applied to answer questions about conservation epidemiology and speciation The extensive coverage of theory from highly regarded scientists and the many substantive applications in this one of a kind work make it invaluable to graduate students and researchers in a wide range of disciplines

Provides a comprehensive and authoritative account of all aspects of metapopulation biology integrating ecology genetics and evolution Developed by recognized experts including Hanski who won the Balzan Prize for Ecological Sciences Covers novel applications of the metapopulation approach to conservation

Scattering from Model Nonspherical Particles
Ferdinando Borghese, Paolo Denti, Rosalba Saija, 2013-03-09 The Mie theory is known to be the first approach to the electromagnetic scattering from homogeneous spheres endowed with all the accuracy of the Maxwell electromagnetic theory It applies to spheres of arbitrary radius and refractive index and marks therefore noticeable progress over the approximate approach of Rayleigh which applies to particles much smaller than the wavelength As a consequence after the publication of the Mie theory in 1908 several scattering objects even when their shape was known to be nonspherical were described in terms of equivalent spherical scatterers It soon became evident however that the morphological details of the actual particles were often too important to be neglected especially in some wavelength ranges On the other hand setting aside some particular cases in which the predictions of the Mie theory were acceptable no viable alternative for the description of scattering from particles of arbitrary shape was at hand This situation lasted with no substantial changes until about 25 years ago when the exact solution to the problem of dependent scattering from aggregates of spheres was devised This solution is a real improvement over the Mie theory because several processes that occur e.g. in the atmospheric aerosols and in the interstellar medium can be interpreted in terms of clustering of otherwise spherical scatterers Moreover nonspherical particles may be so distributed both in size and orientation as to smooth out the individual scattering properties

Obsessive-compulsive Disorder Christopher Pittenger, 2017-09-12 Obsessive compulsive disorder affects approximately one person in 40 and causes great suffering Effective treatments are available that can help many and our understanding of the psychology neurobiology and clinical treatment of the disorder has advanced dramatically over the past 25 years Nevertheless much remains to be learned and a substantial minority of patients benefit little even from the best treatments we have to offer today This volume provides the first comprehensive summary of the state of the field summarizing topics ranging from genetics and neurobiology through cognitive psychology clinical treatment related conditions societal implications and personal experiences of patients and clinicians This book is unique in its comprehensive coverage that extends far beyond the realm of cognitive behavioral therapy As such it will serve as a valuable introduction to those new to the field a fascinating resource for OCD sufferers and their families and an essential reference for students clinicians and researchers

Sustainability , Computational Models of Brain and Behavior Ahmed A. Moustafa, 2017-09-11 A comprehensive Introduction to the world of brain and behavior computational models This book provides a broad collection of articles covering different aspects of computational modeling efforts in psychology and neuroscience Specifically it discusses models that span different brain regions hippocampus amygdala basal ganglia visual cortex different species humans rats fruit flies and different modeling methods neural network Bayesian reinforcement learning data fitting and

Hodgkin Huxley models among others Computational Models of Brain and Behavior is divided into four sections a Models of brain disorders b Neural models of behavioral processes c Models of neural processes brain regions and neurotransmitters and d Neural modeling approaches It provides in depth coverage of models of psychiatric disorders including depression posttraumatic stress disorder PTSD schizophrenia and dyslexia models of neurological disorders including Alzheimer s disease Parkinson s disease and epilepsy early sensory and perceptual processes models of olfaction higher systems level models and low level models Pavlovian and instrumental conditioning linking information theory to neurobiology and more Covers computational approximations to intellectual disability in down syndrome Discusses computational models of pharmacological and immunological treatment in Alzheimer s disease Examines neural circuit models of serotonergic system from microcircuits to cognition Educates on information theory memory prediction and timing in associative learning Computational Models of Brain and Behavior is written for advanced undergraduate Master s and PhD level students as well as researchers involved in computational neuroscience modeling research

Conservation Biology Peggy L.

Fiedler,2012-12-06 John Harper Nature conservation has changed from an idealistic philosophy to a serious technology Ecology the science that underpins the technology of conservation is still too immature to provide all the wisdom that it must It is arguable that the desire to conserve nature will in itself force the discipline of ecology to identify fundamental problems in its scientific goals and methods In return ecologists may be able to offer some insights that make conservation more practicable Harper 1987 The idea that nature species or communities is worth preserving rests on several fundamental arguments particularly the argument of nostalgia and the argument of human benefit and need Nostalgia of course is a powerful emotion With some notable exceptions there is usually a feeling of dismay at a change in the status quo whether it be the loss of a place in the country for walking or rambling the loss of a painting or architectural monument or that one will never again have the chance to see a particular species of bird or plant

Information Technology and Open Source: Applications for Education, Innovation, and Sustainability Antonio Cerone,Donatella Persico,Sara Fernandes,Alexeis Garcia-Perez,Panagiotis Katsaros,Siraj Ahmed Shaikh,Ioannis Stamelos,2014-03-24

This book constitutes revised selected papers from the following SEFM 2012 satellite events InSuEdu the First International Symposium on Innovation and Sustainability in Education MokMaSD the First International Symposium on Modelling and Knowledge Management for Sustainable Development and Open Cert the 6th International Workshop on Foundations and Techniques for Open Source Software Certification held in Thessaloniki Greece in October 2012 The total of 14 regular papers and 7 short papers included in this volume were carefully reviewed and selected from 35 submissions The papers cover the topics related to the use of Information and Communication Technology ICT and Open Source Software OSS as tools to foster and support Education Innovation and Sustainability

Changing Ecosystems and Their Services Levente Hufnagel,2020-03-11

Changing Ecosystems and their Services provides a very interesting account of the frontiers of biodiversity and ecological

research It consists of seven chapters covering mass extinctions the Big Five and The Sixth which are recent global ecological crises Caribbean biodiversity acoustic habitat degradation due to shipping in the world's oceans methane production of microbes in Amazonian floodplains African mangrove forests pollination as ecosystem services in Ethiopia and climate change management I am sure that this book will be very useful for everybody researchers teachers students or others interested in the field who would benefit from insight into biodiversity research Applying Landscape Ecology in Biological Conservation Kevin Gutzwiller, 2011-06-27 Landscape ecology and conservation biology are rapidly developing disciplines and a current synthesis of principles and applications in these two fields is needed under one cover Many managers are not applying principles of landscape ecology in efforts to conserve biota yet the loss of biological diversity could be reduced if broad scale processes and patterns were consistently considered in management and conservation decisions Bringing together insights from leaders in landscape ecology and conservation biology this book explains how our knowledge about landscape ecology can help us understand manage and maintain biodiversity Beyond explaining pertinent concepts of landscape ecology and biological conservation and describing examples of their use in management research and planning this book also distills principles for applying landscape ecology in conservation identifies gaps in current knowledge and provides research approaches to fill those voids The book is divided into five parts the first part introduces the book and discusses what landscape ecology is and why it is important to biological conservation The second deals with multiple scales connectivity and organism movement The third part discusses landscape change and how this affects biodiversity and the fourth part covers conservation planning The final part presents a synthesis that identifies overarching principles pervasive constraints and realistic prospects for applying landscape ecology in biological conservation Conservationists land use planners and ecologists will find this book to be an essential resource Foreword by Richard T T Forman *Applied Natural Science* Mark D. Goldfein, Alexey V. Ivanov, 2017-03-03 *Applied Natural Science* Environmental Issues and Global Perspectives provides the reader with a complete insight into the natural scientific pattern of the world covering the most important historical stages of the development of various areas of science methods of natural scientific research general scientific and philosophical concepts and the fundamental laws of nature The book analyzes the main scientific trends and developments of modern natural science and also discusses important aspects of environmental protection Topics include The problem of the two cultures the mathematization of natural sciences and the informatization of society The non linear nature of the processes occurring in nature and society Application of the second law of thermodynamics to describe the development of biological systems Global problems of the biosphere Theory and practice of stable organic paramagnetic materials Polymers and the natural environment Key features include An interdisciplinary approach in considering scientific and technical problems A discussion of general scientific trends in modern natural science including globalization challenges in nature and society the organic chemistry of stable paramagnetic materials the fundamentals of the environmental

chemistry of polymeric materials etc A justification of applying classical non equilibrium thermodynamics to studying the behavior of open including biological systems Of particular importance in the book is the discussion of some problems associated with the place of man in the biosphere issues of the globalization of science and technology new ideas about the universe and the concept of universal evolutionism At the same time the book discusses more specific issues related to solving major global and regional environmental problems particularities of organic paramagnetic materials the influence of polymers on the man and environment etc All this leads to the fundamental conclusion of the unity of animate and inanimate nature as well as improvement of the process of cognition of the real world which consists in objective and natural changing of world views The book is intended for professors teachers and students of classical and technological universities who are interested in the development of the foundations of modern natural sciences as well as for professionals working in the field of chemical physics and applied ecology

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