

Modeling Nature

Episodes in the History of
Population Ecology

Sharon E. Kingsland



Modelling Nature Episodes In The History Of Population Ecology

Maurizio Baussola, Enrico Ciciotti



Modelling Nature Episodes In The History Of Population Ecology:

Modeling Nature Sharon E. Kingsland, 1985 The first history of population ecology traces two generations of science and scientists from the opening of the twentieth century through 1970 Kingsland chronicles the careers of key figures and the field's theoretical, empirical, and institutional development with special attention to tensions between the descriptive studies of field biologists and later mathematical models This second edition includes a new afterword that brings the book up to date with special attention to the rise of the new natural history and debates about ecology's future as a large scale scientific enterprise Modelling Nature Sharon E. Kingsland, 1988 *Mathematical Models in Population Biology and Epidemiology* Fred Brauer, Carlos Castillo-Chavez, 2013-03-09 As the world population exceeds the six billion mark questions of population explosion of how many people the earth can support and under which conditions become pressing Some of the questions and challenges raised can be addressed through the use of mathematical models but not all The goal of this book is to search for a balance between simple and analyzable models and unsolvable models which are capable of addressing important questions such as these Part I focusses on single species simple models including those which have been used to predict the growth of human and animal population in the past Single population models are in some sense the building blocks of more realistic models the subject of Part II Their role is fundamental to the study of ecological and demographic processes including the role of population structure and spatial heterogeneity the subject of Part III This book which includes both examples and exercises will be useful to practitioners graduate students and scientists working in the field

Environmental and Hydrological Systems Modelling A W Jayawardena, 2014-01-21 Mathematical modelling has become an indispensable tool for engineers scientists planners decision makers and many other professionals to make predictions of future scenarios as well as real impending events As the modelling approach and the model to be used are problem specific no single model or approach can be used to solve all problems and there are constraints in each situation Modellers therefore need to have a choice when confronted with constraints such as lack of sufficient data resources expertise and time Environmental and Hydrological Systems Modelling provides the tools needed by presenting different approaches to modelling the water environment over a range of spatial and temporal scales Their applications are shown with a series of case studies taken mainly from the Asia Pacific Region Coverage includes Population dynamics Reaction kinetics Water quality systems Longitudinal dispersion Time series analysis and forecasting Artificial neural networks Fractals and chaos Dynamical systems Support vector machines Fuzzy logic systems Genetic algorithms and genetic programming This book will be of great value to advanced students professionals academics and researchers working in the water environment **Philosophy and Biodiversity** Markku Oksanen, Juhani Pietarinen, 2004-09-06 This important collection focuses on the nature and importance of biodiversity The concept is clarified and its intrinsic and instrumental value are discussed Even though the term biodiversity was invented in the 1980s to promote the cause of species

conservation discussions on biological diversity go back to Plato There are many controversies surrounding biodiversity and a few of them are examined here What is worthy of protection or restoration and what is the acceptable level of costs Is it permissible to kill sentient animals to promote native populations Can species be reintroduced if they have disappeared a long time ago How should the responsibilities for biodiversity be shared This book will be of interest to philosophers of science and biologists but also to anyone interested in conservation and the environment **Introduction to Population**

Ecology Larry L. Rockwood, 2009-03-12 Introduction to Population Ecology is an accessible and up to date textbook covering all aspects of population ecology Discusses field and laboratory data to illustrate the fundamental laws of population ecology Provides an overview of how population theory has developed Explores single species population growth and self limitation metapopulations and a broad range of interspecific interactions including parasite host predator prey and plant herbivore Keeps the mathematics as simple as possible using a careful step by step approach and including graphs and other visual aids to help understanding Artwork from the book is available to instructors online at www.blackwellpublishing.com rockwood and by request on CD ROM *Mathematics in Population Biology* Horst R. Thieme, 2018-06-05 The formulation analysis and re evaluation of mathematical models in population biology has become a valuable source of insight to mathematicians and biologists alike This book presents an overview and selected sample of these results and ideas organized by biological theme rather than mathematical concept with an emphasis on helping the reader develop appropriate modeling skills through use of well chosen and varied examples Part I starts with unstructured single species population models particularly in the framework of continuous time models then adding the most rudimentary stage structure with variable stage duration The theme of stage structure in an age dependent context is developed in Part II covering demographic concepts such as life expectation and variance of life length and their dynamic consequences In Part III the author considers the dynamic interplay of host and parasite populations i e the epidemics and endemics of infectious diseases The theme of stage structure continues here in the analysis of different stages of infection and of age structure that is instrumental in optimizing vaccination strategies Each section concludes with exercises some with solutions and suggestions for further study The level of mathematics is relatively modest a toolbox provides a summary of required results in differential equations integration and integral equations In addition a selection of Maple worksheets is provided The book provides an authoritative tour through a dazzling ensemble of topics and is both an ideal introduction to the subject and reference for researchers

The Norton History of the Environmental Sciences Peter J. Bowler, 1993 In The Norton History of the Environmental Sciences Peter J Bowler chronicles humanity s long quest to understand its own origins brilliantly synthesizing the discoveries in geography geology and evolutionary biology that have brought us to our current knowledge of the fragility and connectedness of life on Earth and created the new science of ecology **Population Dynamics and the Tribolium**

Model: Genetics and Demography Robert F. Costantino, Robert A. Desharnais, 2012-12-06 The study of populations is

becoming increasingly focused on dynamics We believe there are two reasons for this trend The first is the impact of nonlinear dynamics with its exciting ideas and colorful language bifurcations domains of attraction chaos fractals strange attractors Complexity which is so very much a part of biology now seems to be also a part of mathematics A second trend is the accessibility of the new concepts The barriers to communication between the theorist and experimentalist seem less impenetrable The active participation of the experimentalist means that the theory will obtain substance Our role is the application of the theory of dynamics to the analysis of biological populations We began our work early in 1979 by writing an ordinary differential equation for the rate of change in adult numbers which was based on an equilibrium model proposed a decade earlier During the next few months we filled our notebooks with straightforward deductions from the model and its associated biological implications Slowly some of the biological observations were explained and papers followed on a variety of topics genetic and demographic stability stationary probability distributions for population size population growth as a birth death process natural selection and density dependent population growth genetic disequilibrium and the stationary stochastic dynamics of adult numbers

From Models to Simulations Franck Varenne, 2018-09-03 This book analyses the impact computerization has had on contemporary science and explains the origins technical nature and epistemological consequences of the current decisive interplay between technology and science an intertwining of formalism computation data acquisition data and visualization and how these factors have led to the spread of simulation models since the 1950s Using historical comparative and interpretative case studies from a range of disciplines with a particular emphasis on the case of plant studies the author shows how and why computers data treatment devices and programming languages have occasioned a gradual but irresistible and massive shift from mathematical models to computer simulations The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

The Experimental Side of Modeling Isabelle F. Peschard, Bas C. van Fraassen, 2018-10-02 An innovative multifaceted approach to scientific experiments as designed by and shaped through interaction with the modeling process The role of scientific modeling in mediation between theories and phenomena is a critical topic within the philosophy of science touching on issues from climate modeling to synthetic models in biology high energy particle physics and cognitive sciences Offering a radically new conception of the role of data in the scientific modeling process as well as a new awareness of the problematic aspects of data this cutting edge volume offers a multifaceted view on experiments as designed and shaped in interaction with the modeling process Contributors address such issues as the construction of models in conjunction with scientific experimentation the status of measurement and the function of experiment in the identification of relevant parameters how the phenomena under study are reconceived when accounted for by a model and the interplay between experimenting modeling and simulation when results do not mesh Highlighting the mediating role of models and the model dependence as well as theory dependence of data measurement this

volume proposes a normative and conceptual innovation in scientific modeling that the phenomena to be investigated and modeled must not be precisely identified at the start but specified during the course of the interactions arising between experimental and modeling activities Contributors Nancy D Cartwright U of California San Diego Anthony Chemero U of Cincinnati Ronald N Giere U of Minnesota Jenann Ismael U of Arizona Tarja Knuuttila U of South Carolina Andrea Loettgers U of Bern Switzerland Deborah Mayo Virginia Tech Joseph Rouse Wesleyan U Paul Teller U of California Davis Michael Weisberg U of Pennsylvania Eric Winsberg U of South Florida **Masterminding Nature** Margaret E. Derry, 2015-01-01 Canadian historian Margaret Derry examines the evolution of modern animal breeding from the invention of improved breeding methods in 18th century England to the application of molecular genetics in the 1980s and 1990s

Environmental Modelling John Wainwright, Mark Mulligan, 2005-04-08 Simulation models are increasingly used to investigate processes and solve practical problems in a wide variety of disciplines eg climatology ecology hydrology geomorphology engineering Environmental Modelling A Practical Approach addresses the development testing and application of such models which apply across traditional boundaries and demonstrate how interactions across these boundaries can be beneficial Provides a general overview of methods and approaches as well as focusing on key subject areas written by leading practitioners in the field Assesses the advantages and disadvantages of different models used and provides case studies supported with data output tutorial exercises and links to the model and or model applications via the book's website Covers major developments in the field eg the use of GIS and remote sensing techniques and scaling issues As associated website contains colour images as well as links to www resources Rereading the Fossil Record David Sepkoski, 2022-12-22 David Sepkoski's book is the first to examine the rise of paleobiology and the emergence of macroevolution as a discipline in the 1970s Kevin Padian University of California Berkeley Rereading the Fossil Record presents the first ever historical account of the origin rise and importance of paleobiology from the mid nineteenth century to the late 1980s Drawing on a wealth of archival material David Sepkoski shows how the movement was conceived and promoted by a small but influential group of paleontologists and examines the intellectual disciplinary and political dynamics involved in the ascendancy of paleobiology By tracing the role of computer technology large databases and quantitative analytical methods in the emergence of paleobiology this book also offers insight into the growing prominence and centrality of data driven approaches in recent science In the 1970s a new kid on the block was shaking up paleontology geology and biology Historian David Sepkoski charts the rise of paleobiology from 1945 to 1985 driven by a small but illustrious band of paleontologists including Stephen Jay Gould and David Raup who grappled with how the geological record could produce evidence for evolution The solution as Sepkoski engagingly relates lay in quantitative analysis of evolutionary patterns in fossils Nature David Sepkoski's book is the one book that anyone interested in evolution should buy this year And next year And probably the year after The reason is that for the first time the emergence of the modern science of macroevolution

receives its due Reports of the National Center for Science Education Artificial Life V Christopher G. Langton, Katsunori Shimohara, 1997 In addition to presenting the latest work in the field Artificial Life V includes a retrospective and prospective look at both artificial and natural life with the aim of refining the methods and approaches discovered so far into viable practical tools for the pursuit of science and engineering goals May 16-18 1996 Nara Japan Despite all the successes in computer engineering adaptive computation bottom up AI and robotics Artificial Life must not become simply a one way bridge borrowing biological principles to enhance our engineering efforts in the construction of life as it could be We must ensure that we give back to biology in kind by developing tools and methods that will be of real value in the effort to understand life as it is Artificial Life V marks a decade since Christopher Langton organized the first workshop on artificial life a decade characterized by the exploration of new possibilities and techniques as researchers have sought to understand through synthetic experiments the organizing principles underlying the dynamics usually the nonlinear dynamics of living systems In addition to presenting the latest work in the field Artificial Life V includes a retrospective and prospective look at both artificial and natural life with the aim of refining the methods and approaches discovered so far into viable practical tools for the pursuit of science and engineering goals Complex Adaptive Systems series *Geographers* Patrick H. Armstrong, Geoffrey Martin, 2015-12-14 *Geographers* is an annual collection of studies on individuals who have made major contributions to the development of geography and geographical thought Subjects are drawn from all periods and from all parts of the world and include famous names as well as those less well known including explorers independent thinkers and scholars Each paper describes the geographer's education life and work and discusses their influence and spread of academic ideas Each study includes a select bibliography and a brief chronology The work includes a general index and a cumulative index of geographers listed in volumes published to date Published under the auspices of the International Geographical Union **Fundamental Processes in Ecology** David M Wilkinson, 2007-09-13 *Fundamental Processes in Ecology* presents a way to study ecosystems that is not yet available in ecology textbooks but is resonant with current thinking in the emerging fields of geobiology and Earth System Science It provides an alternative process based classification of ecology and proposes a truly planetary view of ecological science To achieve this it asks and endeavours to answer the question what are the fundamental ecological processes which would be found on any planet with Earth like carbon based life The author demonstrates how the idea of fundamental ecological processes can be developed at the systems level specifically their involvement in control and feedback mechanisms This approach allows us to reconsider basic ecological ideas such as energy flow guilds trade offs carbon cycling and photosynthesis and to put these in a global context In doing so the book puts a much stronger emphasis on microorganisms than has traditionally been the case The integration of Earth System Science with ecology is vitally important if ecological science is to successfully contribute to the massive problems and future challenges associated with global change Although the approach is heavily influenced by Lovelock's Gaia

hypothesis this is not a popular science book about Gaian theory Instead it is written as an accessible text for graduate student seminar courses and researchers in the fields of ecology earth system science evolutionary biology palaeontology history of life astrobiology geology and physical geography *Mathematical Models in Biology* Leah Edelstein-Keshet,1988-01-01 *Mathematical Models in Biology* is an introductory book for readers interested in biological applications of mathematics and modeling in biology A favorite in the mathematical biology community it shows how relatively simple mathematics can be applied to a variety of models to draw interesting conclusions Connections are made between diverse biological examples linked by common mathematical themes A variety of discrete and continuous ordinary and partial differential equation models are explored Although great advances have taken place in many of the topics covered the simple lessons contained in this book are still important and informative Audience the book does not assume too much background knowledge essentially some calculus and high school algebra It was originally written with third and fourth year undergraduate mathematical biology majors in mind however it was picked up by beginning graduate students as well as researchers in math and some in biology who wanted to learn about this field Math and Bio 2010 Lynn Arthur Steen,2005 *Math and bio 2010* grew out of Meeting the Challenges Education across the Biological Mathematical and Computer Sciences a joint project of the Mathematical Association of America MAA the National Science Foundation Division of Undergraduate Education NSF DUE the National Institute of General Medical Sciences NIGMS the American Association for the Advancement of Science AAAS and the American Society for Microbiology ASM Foreword p vi A Companion to the Philosophy of Biology Sahotra Sarkar,Any Plutynski,2010-11-08 *A COMPANION TO THE PHILOSOPHY OF BIOLOGY* Sarkar is to be congratulated for assembling this talented team of philosophers who are themselves to be congratulated for writing these interesting essays on so many fascinating areas in philosophy of biology This book will be a wonderful resource for future work Elliot Sober University of Wisconsin Madison Many of the discussions here start with a definition of terms and a historical context of the subject before delving into the deeper philosophical issues making it a useful reference for students of biology as well as philosophy Northeastern Naturalist The topics that are addressed are done so well This book will appeal to the advanced student and knowledgeable amateur and may prove useful catalyst for discussion among research teams or those engaged in cross disciplinary studies Reference Reviews *A Companion to the Philosophy of Biology* offers concise overviews of philosophical issues raised by all areas of biology Addressing both traditional and emerging areas of philosophical interest the volume focuses on the philosophical implications of evolutionary theory as well as key topics such as molecular biology immunology and ecology Comprising essays by top scholars in the field this volume is an authoritative guide for professional philosophers historians sociologists and biologists as well as an accessible reference work for students seeking to learn about this rapidly changing field

Modelling Nature Episodes In The History Of Population Ecology Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Modelling Nature Episodes In The History Of Population Ecology**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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