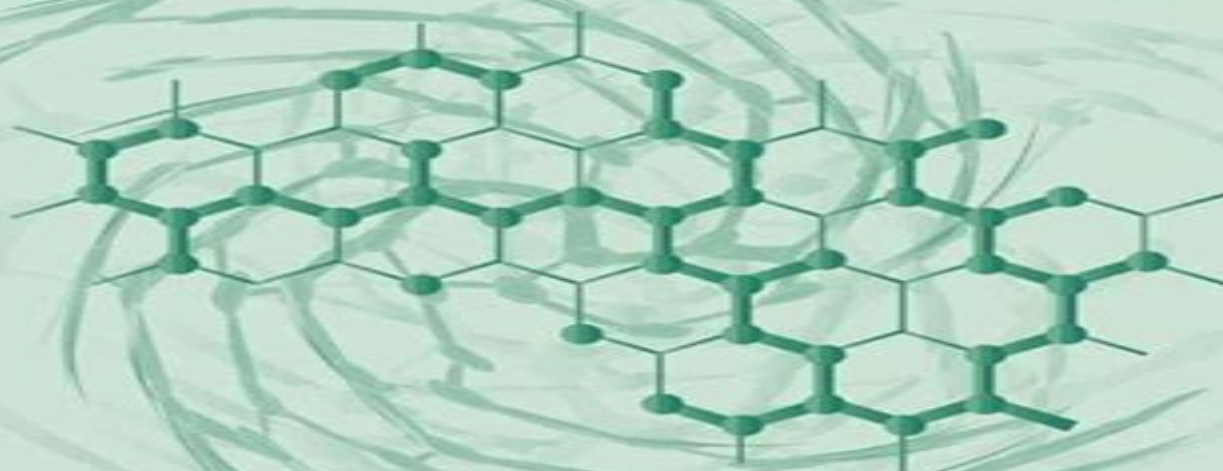


Cambridge Studies in Adaptive Dynamics

The Geometry of Ecological Interactions

Simplifying Spatial Complexity



Edited by
U. Dieckmann, R. Law, and J.A.J. Metz

Geometry Of Ecological Interactions Simplifying Spatial Complexity

Jonathan Silvertown, Janis Antonovics



Geometry Of Ecological Interactions Simplifying Spatial Complexity:

The Geometry of Ecological Interactions Ulf Dieckmann, Richard Law, Johan A. J. Metz, 2000-05-04 The field of theoretical ecology has expanded dramatically in the last few years This volume gives detailed coverage of the main developing areas in spatial ecological theory and is written by world experts in the field Integrating the perspective from field ecology with novel methods for simplifying spatial complexity it offers a didactical treatment with a gradual increase in mathematical sophistication from beginning to end In addition the volume features introductions to those fundamental phenomena in spatial ecology where emerging spatial patterns influence ecological outcomes quantitatively An appreciation of the consequences of this is required if ecological theory is to move on in the 21st century Written for researchers and graduate students in theoretical evolutionary and spatial ecology applied mathematics and spatial statistics it will be seen as a ground breaking treatment of modern spatial ecological theory

Advanced Ecological Theory J. McGlade, 2009-04-01 Advanced Ecological Theory is intended for both postgraduate students and professional researchers in ecology It provides an overview of current advances in the field as well as closely related areas in evolution ecological economics and natural resource management familiarizing the reader with the mathematical computational and statistical approaches used in these different areas The book has an exciting set of diverse contributions written by leading authorities

Integrating Ecology and Evolution in a Spatial Context Jonathan Silvertown, Janis Antonovics, 2001-08 The profound consequences of the deceptively obvious statement that plants stand still but their genes don't are only just becoming clear In this volume an international team of authors experts in the field of population biology aim to advance our understanding of ecological and evolutionary processes by integrating them within a common frame of reference space Processes operating at three different spatial scales are examined that of the population metapopulation and the geographical range Themes that recur at these different scales include spatial population dynamics population genetics at boundaries the imprint of spatial population dynamics upon genetic structure adaptation evolution of mating systems and the consequences of population genetics for ecological dynamics Whilst the focus is largely on plants the questions addressed are equally applicable to animals It will be a valuable tool for researchers and advanced students not only in this field but also evolutionary biology and resource management

Frontiers in Ecology, Evolution and Complexity Mariana Benítez, Octavio Miramontes, Alfonso Valiente-Banuet, 2014-07-08 Advances in molecular biology remote sensing systems biology bioinformatics non linear science the physics of complex systems and other fields have rendered a great amount of data that remain to be integrated into models and theories that are capable of accounting for the complexity of ecological systems and the evolutionary dynamics of life It is thus necessary to provide a solid basis to discuss and reflect on these and other challenges both at the local and global scales This volume aims to delineate an integrative and interdisciplinary view that suggests new avenues in research and teaching critically discusses the scope of the diverse methods in the study of complex systems and points at key open

questions Finally this book will provide students and specialists with a collection of high quality open access essays that will contribute to integrate Ecology Evolution and Complexity in the context of basic research and in the field of Sustainability Sciences

Dynamic Models in Biology Stephen P. Ellner, John Guckenheimer, 2011-09-19 From controlling disease outbreaks to predicting heart attacks dynamic models are increasingly crucial for understanding biological processes Many universities are starting undergraduate programs in computational biology to introduce students to this rapidly growing field In Dynamic Models in Biology the first text on dynamic models specifically written for undergraduate students in the biological sciences ecologist Stephen Ellner and mathematician John Guckenheimer teach students how to understand build and use dynamic models in biology Developed from a course taught by Ellner and Guckenheimer at Cornell University the book is organized around biological applications with mathematics and computing developed through case studies at the molecular cellular and population levels The authors cover both simple analytic models the sort usually found in mathematical biology texts and the complex computational models now used by both biologists and mathematicians Linked to a Web site with computer lab materials and exercises Dynamic Models in Biology is a major new introduction to dynamic models for students in the biological sciences mathematics and engineering

Individual-based Modeling and Ecology Volker Grimm, Steven F. Railsback, 2013-11-28 Individual based models are an exciting and widely used new tool for ecology These computational models allow scientists to explore the mechanisms through which population and ecosystem ecology arises from how individuals interact with each other and their environment This book provides the first in depth treatment of individual based modeling and its use to develop theoretical understanding of how ecological systems work an approach the authors call individual based ecology Grimm and Railsback start with a general primer on modeling how to design models that are as simple as possible while still allowing specific problems to be solved and how to move efficiently through a cycle of pattern oriented model design implementation and analysis Next they address the problems of theory and conceptual framework for individual based ecology What is theory That is how do we develop reusable models of how system dynamics arise from characteristics of individuals What conceptual framework do we use when the classical differential equation framework no longer applies An extensive review illustrates the ecological problems that have been addressed with individual based models The authors then identify how the mechanics of building and using individual based models differ from those of traditional science and provide guidance on formulating programming and analyzing models This book will be helpful to ecologists interested in modeling and to other scientists interested in agent based modeling

Bacteriophage Ecology Stephen T. Abedon, 2008-05-01 Bacteriophages or phages are viruses that infect bacteria and are believed to be the most abundant and genetically diverse organisms on Earth As such their ecology is vast both in quantitative and qualitative terms Their abundance makes an understanding of phage ecology increasingly relevant to bacterial ecosystem ecology bacterial genomics and bacterial pathology Abedon provides the first text on phage ecology for almost 20 years Written by

leading experts synthesizing the three key approaches to studying phage ecology namely studying them in natural environments in situ experimentally in the lab or theoretically using mathematical or computer models With strong emphasis on microbial population biology and distilling cutting edge research into basic principles this book will complement other currently available volumes It will therefore serve as an essential resource for graduate students and researchers particularly those with an interest in phage ecology and evolutionary biology

Simulating Complex Systems by Cellular Automata Alfons G. Hoekstra, Jiri Kroc, Peter M.A. Slood, 2010-06-03 Deeply rooted in fundamental research in Mathematics and Computer Science Cellular Automata CA are recognized as an intuitive modeling paradigm for Complex Systems Already very basic CA with extremely simple micro dynamics such as the Game of Life show an almost endless display of complex emergent behavior Conversely CA can also be designed to produce a desired emergent behavior using either theoretical methodologies or evolutionary techniques Meanwhile beyond the original realm of applications Physics Computer Science and Mathematics CA have also become work horses in very different disciplines such as epidemiology immunology sociology and finance In this context of fast and impressive progress spurred further by the enormous attraction these topics have on students this book emerges as a welcome overview of the field for its practitioners as well as a good starting point for detailed study on the graduate and post graduate level The book contains three parts two major parts on theory and applications and a smaller part on software The theory part contains fundamental chapters on how to design and or apply CA for many different areas In the applications part a number of representative examples of really using CA in a broad range of disciplines is provided this part will give the reader a good idea of the real strength of this kind of modeling as well as the incentive to apply CA in their own field of study Finally we included a smaller section on software to highlight the important work that has been done to create high quality problem solving environments that allow to quickly and relatively easily implement a CA model and run simulations both on the desktop and if needed on High Performance Computing infrastructures

Bioeconomic Modelling and Valuation of Exploited Marine Ecosystems J.C.J.M. van den Bergh, J. Hoekstra, R. Imeson, P.A.L.D. Nunes, A.T. de Blaeij, 2006-06-19 Economic dimensions have been somewhat neglected in research on nature policy and management of marine ecosystem exploitation The current book aims to fill this gap It examines the mismatches of natural socio economic and regulatory processes and regimes in time and space This involves dealing with the complexity and uncertainty that are inherent to the interaction of marine ecosystems and economic systems The approach adopted is based on the idea that the design of sustainability policies requires an integration of insights from resource environmental and ecological economics on the one hand and marine biology and environmental sciences on the other hand For this purpose use is made of integrated assessment on the basis of theoretical and applied mathematical models The book is the result of a large project hosted by the Department of Spatial Economics of the Free University in Amsterdam under the supervision of the first author The project received funding from the Netherlands Organisation for Scientific Research NWO through

a priority program titled Sustainable Use and Conservation of Marine Living Resources which was initiated and coordinated by Prof Wim Wolff of the University of Groningen. The work reported here has greatly benefited from external advice given by marine biologists who participated in this research program.

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.

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?

Adaptive Speciation Ulf Dieckmann, 2004-09-02 First published in 2004, this book by internationally recognized leaders in the field clarifies how adaptive processes rather than geographic isolation can cause speciation.

The Major Transitions in Evolution Revisited Brett Calcott, Kim Sterelny, 2011-04-22 Drawing on recent advances in evolutionary biology, prominent scholars return to the question posed in a pathbreaking book: how evolution itself evolved. In 1995, John Maynard Smith and Eors Szathmáry published their influential book *The Major Transitions in Evolution*. The transitions that Maynard Smith and Szathmáry chose to describe all constituted major changes in the kinds of organisms that existed, but most important, these events also transformed the evolutionary process itself. The evolution of new levels of biological organization, such as chromosomes, cells, multicelled organisms and complex social groups, radically changed the kinds of individuals natural

selection could act upon Many of these events also produced revolutionary changes in the process of inheritance by expanding the range and fidelity of transmission establishing new inheritance channels and developing more open ended sources of variation Maynard Smith and Szathmáry had planned a major revision of their work but the death of Maynard Smith in 2004 prevented this In this volume prominent scholars including Szathmáry himself reconsider and extend the earlier book's themes in light of recent developments in evolutionary biology The contributors discuss different frameworks for understanding macroevolution prokaryote evolution the study of which has been aided by developments in molecular biology and the complex evolution of multicellularity

Evolutionary Dynamics Martin A. Nowak, 2006-09-29 Evolution is the one theory that transcends all of biology Nowak draws on the languages of biology and mathematics to outline the mathematical principles according to which life evolves His book makes a case for understanding every living system and everything that arises as a consequence of living systems in terms of evolutionary dynamics

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

Sixth International Conference on Information Technology , Micro Meso Macro: Addressing Complex Systems Couplings Hans Liljenström, Uno Svedin, 2005-05-03 In the domain of science concerned with systems structure and behavior the issue of the relationship between the micro and the macro level is of key importance This book concentrates on the interplay between these levels and has a special focus on the level in between the meso level An investigation of those links is made through a number of cases from different domains of science including physics chemistry ecology social science economics and technology What is evident is that there are facets regarding meso level issues that are similar between cases but also that the domains differ in various ways This is particularly exemplified by the differences in perspectives from which the natural and social sciences deal with scaling issues The various examples provided in this book mirror its overriding theme systems complexity

The Geographic Spread of Infectious Diseases Lisa Sattenspiel, 2009-07-06 The 1918 19 influenza epidemic killed more than fifty million people worldwide The SARS epidemic of 2002 3 by comparison killed fewer than a thousand The success in containing the spread of SARS was due largely to the rapid global response of public health authorities which was aided by insights resulting from mathematical models Models enabled authorities to better understand how the disease spread and to assess the relative effectiveness of different control strategies In this book Lisa Sattenspiel and Alun Lloyd provide a comprehensive introduction to mathematical models in epidemiology and show how they can be used to predict and control the geographic spread of major infectious diseases Key concepts in infectious disease modeling are explained readers are guided from simple mathematical models to more complex ones and the strengths and weaknesses of these models are explored The book highlights the breadth of techniques available to modelers today such as population based and individual based models and covers specific applications as well Sattenspiel and Lloyd examine the powerful

mathematical models that health authorities have developed to understand the spatial distribution and geographic spread of influenza measles foot and mouth disease and SARS Analytic methods geographers use to study human infectious diseases and the dynamics of epidemics are also discussed A must read for students researchers and practitioners no other book provides such an accessible introduction to this exciting and fast evolving field **Mathematical Statistical Physics**

,2006-06-27 The proceedings of the 2005 les Houches summer school on Mathematical Statistical Physics give a broad and clear overview on this fast developing area of interest to both physicists and mathematicians Introduction to a field of math with many interdisciplinary connections in physics biology and computer science Roadmap to the next decade of mathematical statistical mechanics Volume for reference years to come Drivers of Environmental Change in Uplands

Aletta Bonn,Tim Allott,Klaus Hubacek,Jon Stewart,2009-01-13 The uplands are a crucial source of ecosystem services such as water provision carbon retention maintenance of biodiversity provision of recreation value and cultural heritage This puts them in the focus of both environmental and social scientists as well as practitioners and land managers This volume brings together a wealth of knowledge of the British uplands from diverse but interrelated fields of study clearly demonstrating their importance in 21st Century Britain and indicating how we may through interdisciplinary approaches meet the challenges provided by past and future drivers of environmental change The upland environments are subject to change They face imminent threats as well as opportunities from pressures such as climate change changes in land management and related changes in fire risk increases in erosion and water colour degradation of habitats altered wildlife and recreational value as well as significant changes in the economy of these marginal areas This book presents up to date scientific background information addresses policy related issues and lays out pressing land management questions A number of world class experts provide a review of cutting edge natural and social science and an assessment of past current and potential future management strategies policies and other drivers of change After appraisal of key concepts and principles chapters provide specific examples and applications by focussing on UK upland areas and specifically the Peak District National Park as a key example for other highly valuable upland regions

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Table of Contents Geometry Of Ecological Interactions Simplifying Spatial Complexity

1. Understanding the eBook Geometry Of Ecological Interactions Simplifying Spatial Complexity
 - The Rise of Digital Reading Geometry Of Ecological Interactions Simplifying Spatial Complexity
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Of Ecological Interactions Simplifying Spatial Complexity
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Geometry Of Ecological Interactions Simplifying Spatial Complexity
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Of Ecological Interactions Simplifying Spatial Complexity
 - Personalized Recommendations
 - Geometry Of Ecological Interactions Simplifying Spatial Complexity User Reviews and Ratings
 - Geometry Of Ecological Interactions Simplifying Spatial Complexity and Bestseller Lists
5. Accessing Geometry Of Ecological Interactions Simplifying Spatial Complexity Free and Paid eBooks

- Geometry Of Ecological Interactions Simplifying Spatial Complexity Public Domain eBooks
- Geometry Of Ecological Interactions Simplifying Spatial Complexity eBook Subscription Services
- Geometry Of Ecological Interactions Simplifying Spatial Complexity Budget-Friendly Options
- 6. Navigating Geometry Of Ecological Interactions Simplifying Spatial Complexity eBook Formats
 - ePub, PDF, MOBI, and More
 - Geometry Of Ecological Interactions Simplifying Spatial Complexity Compatibility with Devices
 - Geometry Of Ecological Interactions Simplifying Spatial Complexity Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geometry Of Ecological Interactions Simplifying Spatial Complexity
 - Highlighting and Note-Taking Geometry Of Ecological Interactions Simplifying Spatial Complexity
 - Interactive Elements Geometry Of Ecological Interactions Simplifying Spatial Complexity
- 8. Staying Engaged with Geometry Of Ecological Interactions Simplifying Spatial Complexity
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geometry Of Ecological Interactions Simplifying Spatial Complexity
- 9. Balancing eBooks and Physical Books Geometry Of Ecological Interactions Simplifying Spatial Complexity
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geometry Of Ecological Interactions Simplifying Spatial Complexity
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Geometry Of Ecological Interactions Simplifying Spatial Complexity
 - Setting Reading Goals Geometry Of Ecological Interactions Simplifying Spatial Complexity
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Geometry Of Ecological Interactions Simplifying Spatial Complexity
 - Fact-Checking eBook Content of Geometry Of Ecological Interactions Simplifying Spatial Complexity
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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