

Stability and complexity in model ecosystems

May, Robert M.

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Stability And Complexity In Model Ecosystems

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Stability And Complexity In Model Ecosystems:

Stability and Complexity in Model Ecosystems ,2001-03-18 What makes populations stabilize What makes them fluctuate Are populations in complex ecosystems more stable than populations in simple ecosystems In 1973 Robert May addressed these questions in this classic book May investigated the mathematical roots of population dynamics and argued counter to most current biological thinking that complex ecosystems in themselves do not lead to population stability Stability and Complexity in Model Ecosystems played a key role in introducing nonlinear mathematical models and the study of deterministic chaos into ecology a role chronicled in James Gleick s book Chaos In the quarter century since its first publication the book s message has grown in power Nonlinear models are now at the center of ecological thinking and current threats to biodiversity have made questions about the role of ecosystem complexity more crucial than ever In a new introduction the author addresses some of the changes that have swept biology and the biological world since the book s first publication Stability and Complexity in Model Ecosystems ,1967 **Stability and Complexity in Model Ecosystems**

,2001 **Stability and Complexity in Model Ecosystems** Robert M May,2019-12-31 What makes populations stabilize What makes them fluctuate Are populations in complex ecosystems more stable than populations in simple ecosystems In 1973 Robert May addressed these questions in this classic book May investigated the mathematical roots of population dynamics and argued counter to most current biological thinking that complex ecosystems in themselves do not lead to population stability Stability and Complexity in Model Ecosystems played a key role in introducing nonlinear mathematical models and the study of deterministic chaos into ecology a role chronicled in James Gleick s book Chaos In the quarter century since its first publication the book s message has grown in power Nonlinear models are now at the center of ecological thinking and current threats to biodiversity have made questions about the role of ecosystem complexity more crucial than ever In a new introduction the author addresses some of the changes that have swept biology and the biological world since the book s first publication **Resilience, Stability, and Complexity in Real and Model Ecosystems** Carl Biehl,1976

Philosophy of Complex Systems ,2011-05-23 The domain of nonlinear dynamical systems and its mathematical underpinnings has been developing exponentially for a century the last 35 years seeing an outpouring of new ideas and applications and a concomitant confluence with ideas of complex systems and their applications from irreversible thermodynamics A few examples are in meteorology ecological dynamics and social and economic dynamics These new ideas have profound implications for our understanding and practice in domains involving complexity predictability and determinism equilibrium control planning individuality responsibility and so on Our intention is to draw together in this volume we believe for the first time a comprehensive picture of the manifold philosophically interesting impacts of recent developments in understanding nonlinear systems and the unique aspects of their complexity The book will focus specifically on the philosophical concepts principles judgments and problems distinctly raised by work in the domain of complex

nonlinear dynamical systems especially in recent years Comprehensive coverage of all main theories in the philosophy of Complex Systems Clearly written expositions of fundamental ideas and concepts Definitive discussions by leading researchers in the field Summaries of leading edge research in related fields are also included

Biological Robustness

Marta Bertolaso, Silvia Caianiello, Emanuele Serrelli, 2019-01-04 This volume reviews examples and notions of robustness at several levels of biological organization It tackles many philosophical and conceptual issues and casts an outlook on the future challenges of robustness studies in the context of a practice oriented philosophy of science The focus of discussion is on concrete case studies These highlight the necessity of a level dependent description of robust biological behaviors Experts from the neurosciences biochemistry ecology biology and the history and the philosophy of life sciences provide a multiplex perspective on the topic Contributions span from protein folding to cell level robustness to organismal and developmental robustness to sensorimotor systems up to the robustness of ecological systems Several chapters detail neurobiological case studies The brain the poster child of plasticity in biology offers multiple examples of robustness Neurobiology explores the importance of temporal organization and multiscalarity in making this robustness with plasticity possible The discussion also includes structures well beyond the brain such as muscles and the complex feedback loops involved in the peculiar robustness of music perception Overall the volume grounds general reflections upon concrete case studies opening to all the life sciences but also to non biological and bio inspired fields such as post modern engineering It will appeal to researchers students as well as non expert readers

Encyclopedia of Ecology and Environmental Management, 2009-07-15

The Encyclopedia of Ecology and Environmental Management addresses the core definitions and issues in pure and applied ecology It is neither a short entry dictionary nor a long entry encyclopedia but lies somewhere in between The mixture of short entry definitions and long entry essays gives a comprehensive and up to date alphabetical guide to over 3000 topics and allows any subject to be accessed to varying levels of detail while the longer entries provide general reviews of subjects the short definitions provide specific details on more specialised areas An important feature of the Encyclopedia which sets it apart from other similar works is the comprehensive cross referencing The most comprehensive and up to date reference work in pure and applied ecology Definitions cover the entire spectrum of pure and applied ecological research Distinguished editorial board Dr Peter Moore Professor John Grace Professor Bryan Shorrocks Professor Steven Stearns Professor Don Falk International team of distinguished authors over 200 contributors from 20 countries 3000 headwords defined Over 250 long entries review major topics Heavily illustrated with a section of colour plates Complete one volume guide to pure and applied ecology Presents cutting edge definitions in emerging fields as well as grounding in well established areas of ecology

The Balance of Nature? Stuart L. Pimm, 1991 Why the balance of nature Resilience Temporal variability and the individual species The effects of food web structure The variability of the environment Nonlinear dynamics strange attractors and chaos Extinctions Species differences and community structure as explanations of why introductions fail Patterns in species

composition Food web structure and community persistence Community assembly or why are there so many kinds of communities Small scale experimental removals of species Food webs and resistance Changes in total density and species composition The consequences of introductions and extinctions Multispecies models and their limitations Conclusions and caveats

Ecological Issues in a Changing World Sun-Kee Hong, John A. Lee, Byung-Sun Ihm, A. Farina, Yowhan Son, Kim Eun-Shik, Jae C. Choe, 2007-11-05 Problems of scale have exercised the minds of ecologists for many years and will continue to do so into the future This volume deals with this subject and with mathematical approaches to improve our understanding of complex ecological systems The book also concentrates on monitoring the responses of ecosystems especially to human impacts upon them The importance of spatial separation of function at both the landscape and ecosystem level forms an important theme Finally this special book focuses on large scale issues discussing in particular important applied ecological problems and how these can be managed through a variety of planning processes Many examples of major ecological problems in the mainstream ecological literature are drawn from Europe and North America In contrast many of the most pressing ecological problems are to be found elsewhere in the world This volume is composed of four parts according to scale objectives and application of modern ecological research Part I covers emerging concepts and models in the ecosystem complex and in the landscape Part II Biological responses to environmental changes pattern and process Part III Ecological networking and restoration technology theory and practice and finally a summary of 8th INTECOL Congress and possible future directions are covered in Part IV

Delay Differential Equations and Applications to Biology Fathalla A. Rihan, 2021-08-19 This book discusses the numerical treatment of delay differential equations and their applications in bioscience A wide range of delay differential equations are discussed with integer and fractional order derivatives to demonstrate their richer mathematical framework compared to differential equations without memory for the analysis of dynamical systems The book also provides interesting applications of delay differential equations in infectious diseases including COVID 19 It will be valuable to mathematicians and specialists associated with mathematical biology mathematical modelling life sciences immunology and infectious diseases

Ecological Paradigms Lost Beatrix Beisner, 2005-08-23 This edited volume in the Theoretical Ecology series addresses the historical development and evolution of theoretical ideas in the field of ecology Not only does Ecological Paradigms Lost recount the history of the discipline by practitioners of the science of ecology it includes commentary on these historical reflections by philosophers of science Even though the theories discussed are in many cases at the forefront of research the language and approach make this material accessible to non theoreticians The book is structured in 5 major sections including population ecology epidemiology community ecology evolutionary biology and ecosystem ecology In each section a chapter by an eminent experienced ecologist is complemented by analysis from a newer cutting edge researcher Reflection on the past and future of ecology A historical overview of major ideas in the field of ecology Pairing of historical views by ecologists along with a philosophical commentary directed at the

practicing scientists views by a philosopher of science Historical analysis by practicing ecologists including anecdotal experiences that are rarely recorded Based on a very popular symposium at the 2002 Ecological Society of America annual meeting in Tucson AZ

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

Vegetation Ecology Eddy van der Maarel, 2009-04-01 Vegetation Ecology is a comprehensive account of plant communities and their environments Written by leading experts in their field from four continents this up to date innovative text covers the composition structure ecology diversity distribution and dynamics of plant communities with an emphasis on functional adaptations to the abiotic and biotic processes governing plant communities reviews the modern developments in vegetation ecology in a historical perspective presents a coherent view on vegetation ecology while integrating population ecology dispersal biology biotic interactions herbivory interactions with soil organisms and ecosystem ecology and tackles applied aspects of vegetation ecology notably nature management restoration ecology and global change studies Aimed at advanced undergraduates graduates and researchers in plant ecology geography forestry and nature conservation Vegetation Ecology takes an integrated multi disciplinary approach and will be welcomed as an essential reference for plant ecologists the world over

Complex Ecology Charles G. Curtin, Timothy F. H. Allen, 2018-05-31 Research papers from the end of twentieth century have been assembled alongside expert commentary for the first collected volume on complexity based ecology

The Philosophy of Science Sahotra Sarkar, Jessica Pfeifer, 2006 The first in depth reference to the field that combines scientific knowledge with philosophical inquiry this encyclopedia brings together a team of leading scholars to provide nearly 150 entries on the essential concepts in the philosophy of science The areas covered include biology chemistry epistemology and metaphysics physics psychology and mind the social sciences and key figures in the combined studies of science and philosophy Midwest

Aquatic Pollution Edward A. Laws, 2000-09-07 A clear

straightforward presentation of concepts and issues in aquatic pollution This comprehensive introductory text presents a systematic study of pollution in oceans lakes streams and underground aquifers In a clear straightforward style that is easily accessible to nonscientists it describes the sources features and effects of thirteen different types of aquatic pollution Fully updated to reflect current understanding and recent developments this Third Edition of Aquatic Pollution covers every aspect of pollution associated with urban runoff acid rain sewage disposal pesticides oil spills nutrient loading and more Case studies of major pollution sites such as Lake Erie Three Mile Island and the Rocky Mountain Arsenal help to illustrate points made in the general discussion Important features of this new edition include Updated discussions of nonpoint source pollution industrial pollution thermal pollution pathogens metals plastics and more New case studies of Chesapeake Bay and the Exxon Valdez Beginning of chapter outlines End of chapter study questions New special section on units of measurement Four chapters on the fundamentals of ecology and toxicology Aquatic Pollution Third Edition is a first rate teaching and learning tool for courses in environmental science zoology oceanography biology and civil or sanitary engineering It is also an excellent primer for policymakers and activists focused on environmental issues Food Webs John C. Moore, Peter C. de Ruiter, Kevin S. McCann, 2018 This book presents new approaches to studying food webs using practical and policy examples to demonstrate the theory behind ecosystem management decisions **Aquatic Food Webs** Andrea Belgrano, 2005 Aquatic Food Webs provides a current synthesis of theoretical and empirical food web research The textbook is suitable for graduate level students as well as professional researchers in community ecosystem and theoretical ecology in aquatic ecology and in conservation biology **Hydrobiological Modelling** Brian J. Williams, 2006 The book describes models of aquatic ecosystems ranging from lakes to estuaries to the deep ocean It provides a background in the physical and biological processes numerical methods and elementary ecosystem models It describes two of the most widely used hydrodynamic models and presents a number of case studies The practice of modelling in management is discussed

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Stability And Complexity In Model Ecosystems**

In a world inundated with displays and the cacophony of instantaneous interaction, the profound power and mental resonance of verbal art often diminish into obscurity, eclipsed by the continuous barrage of noise and distractions. Yet, set within the lyrical pages of **Stability And Complexity In Model Ecosystems**, a charming work of literary splendor that impulses with natural feelings, lies an unforgettable journey waiting to be embarked upon. Published by a virtuoso wordsmith, that interesting opus manuals viewers on a mental odyssey, softly exposing the latent possible and profound affect embedded within the delicate internet of language. Within the heart-wrenching expanse with this evocative evaluation, we will embark upon an introspective exploration of the book is key subjects, dissect their interesting writing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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