

AXEL G. ROSSBERG

FOOD WEBS and Biodiversity

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M Carnoy



Food Webs And Biodiversity Foundations Models Data:

Food Webs and Biodiversity Axel G. Rossberg, 2013-06-03 Food webs have now been addressed in empirical and theoretical research for more than 50 years Yet even elementary foundational issues are still hotly debated One difficulty is that a multitude of processes need to be taken into account to understand the patterns found empirically in the structure of food webs and communities Food Webs and Biodiversity develops a fresh comprehensive perspective on food webs Mechanistic explanations for several known macroecological patterns are derived from a few fundamental concepts which are quantitatively linked to field observables An argument is developed that food webs will often be the key to understanding patterns of biodiversity at community level Key Features Predicts generic characteristics of ecological communities in invasion extirpation equilibrium Generalizes the theory of competition to food webs with arbitrary topologies Presents a new testable quantitative theory for the mechanisms determining species richness in food webs and other new results Written by an internationally respected expert in the field With global warming and other pressures on ecosystems rising understanding and protecting biodiversity is a cause of international concern This highly topical book will be of interest to a wide ranging audience including not only graduate students and practitioners in community and conservation ecology but also the complex systems research community as well as mathematicians and physicists interested in the theory of networks This is a comprehensive work outlining a large array of very novel and potentially game changing ideas in food web ecology Ken Haste Andersen Technical University of Denmark I believe that this will be a landmark book in community ecology it presents a well established and consistent mathematical theory of food webs It is testable in many ways and the author finds remarkable agreements between predictions and reality G za Mesz na E tv s University Budapest **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 **Multi-Agent-Based Simulation XXIII** Fabian Lorig, Emma Norling, 2023-01-11 This book constitutes the thoroughly refereed and revised selected papers from the 22nd International Workshop on Multi Agent Based Simulation MABS 2022 which took place virtually during May 8 9 2022 The conference was originally planned to take place in Auckland New Zealand but had to change to an online format due to the COVID 19 pandemic The 11 papers included in these proceedings were carefully reviewed and selected from 17 submissions They focus on finding efficient solutions to model complex social systems in areas such as economics management organisational and social sciences in general **Next Generation Biomonitoring: Part 2**, 2018-10-22 Next Generation Biomonitoring Part Two Volume 59 the latest release in the Advances in Ecological Research series is the second part of a thematic on ecological biomonitoring It includes specific chapters that cover aquatic volatile metabolomics using trace gases to examine ecological processes next generation approaches to rapid monitoring Bio aerosol and the link between human health and environmental microbiology NGB in Canadian wetlands CELLDEX global monitoring of functional

responses Citizen Science and Biomonitoring and more Provides information that relates to a thorough understanding of the field Deals with topical and important reviews on the physiology populations and communities of plants and animals **Fish Ecology, Evolution, and Exploitation** Ken H. Andersen, 2019-07-16 Fish are one of the most important global food sources supplying a significant share of the world's protein consumption From stocks of wild Alaskan salmon and North Sea cod to entire fish communities with myriad species fisheries require careful management to ensure that stocks remain productive and mathematical models are essential tools for doing so Fish Ecology Evolution and Exploitation is an authoritative introduction to the modern size and trait based approach to fish populations and communities Ken Andersen covers the theoretical foundations mathematical formulations and real world applications of this powerful new modeling method which is grounded in the latest ecological theory and population biology He begins with fundamental assumptions on the level of individuals and goes on to cover population demography and fisheries impact assessments He shows how size and trait based models shed new light on familiar fisheries concepts such as maximum sustainable yield and fisheries selectivity insights that classic age based theory can't provide and develops novel evolutionary impacts of fishing Andersen extends the theory to entire fish communities and uses it to support the ecosystem approach to fisheries management and forges critical links between trait based methods and evolutionary ecology Accessible to ecologists with a basic quantitative background this incisive book unifies the thinking in ecology and fisheries science and is an indispensable reference for anyone seeking to apply size and trait based models to fish demography fisheries impact assessments and fish evolutionary ecology

Theory-Based Ecology Liz Pásztor, Zoltán Botta-Dukát, Gabriella Magyar, Tamás Czárán, Géza Meszén, 2016-06-30 Ecology is in a challenging state as a scientific discipline While some theoretical ecologists are attempting to build a definition of ecology from first principles many others are questioning even the feasibility of a general and universal theory At the same time it is increasingly important that ecology is accurately and functionally defined for a generation of researchers tackling escalating environmental problems in the face of doubt and disagreement The authors of Theory Based Ecology have written a textbook that presents a robust modern and mathematically sound theory of ecology maintaining a strong link between empirical data models and theory It is firmly based in Darwinian thought since it was Darwin who first revealed the ecological principles of the origin of species and gave the evolution of diversity a process based mechanistic explanation The authors base their synthetic theory of Darwinian ecology on seven key principles exponential growth growth regulation inherited individual differences finiteness and stochasticity competitive exclusion robust coexistence and constraints and trade offs Within this solid conceptual framework they integrate classic and actual empirical knowledge from ecology and evolutionary biology clarifying methodological and mathematical detail in clear and helpful text boxes A wealth of illustrated examples pertaining to different organisational levels alleles clones and species helps to explain how the principles operate This is an invaluable resource for graduate level students as well as professional researchers in the fields of ecology genetics

evolutionary ecology and mathematical biology Competition Theory in Ecology Peter A. Abrams, 2022 This novel textbook addresses the shortcomings of current competition theory and suggests a more useful approach that can provide a basis for future models that have far greater predictive ability in both ecology and evolution Bridging the Gap Between Policy and Science in Assessing the Health Status of Marine Ecosystems, 2nd Edition Angel Borja, Michael Elliott, María C. Uyarra, Jacob Carstensen, Marianna Mea, 2017-03-22 Marine management requires approaches which bring together the best research from the natural and social sciences It requires stakeholders to be well informed by science and to work across administrative and geographical boundaries a feature especially important in the inter connected marine environment Marine management must ensure that the natural structure and functioning of ecosystems is maintained to provide ecosystem services Once those marine ecosystem services have been created they deliver societal goods as long as society inputs its skills time money and energy to gather those benefits However if societal goods and benefits are to be limitless society requires appropriate administrative legal and management mechanisms to ensure that the use of such benefits do not impact on environmental quality but instead support its sustainable use **New perspectives and emerging directions in predator-prey functional response research: Hommage to C.S. Holling (1930- 2019)** Thomas John Hossie, Dennis Murray, 2023-07-26 **Invading Ecological Networks** Cang Hui, David Richardson, 2022-01-13 Until now biological invasions have been conceptualised and studied mainly as a linear process from introduction to establishment to spread This volume charts a new course for the field drawing on key developments in network ecology and complexity science It defines an agenda for Invasion Science 2.0 by providing new framings and classification of research topics and by offering tentative solutions to vexing problems In particular it conceptualises a transformative ecosystem as an open adaptive network with critical transitions and turnover with resident species heuristically learning and fine tuning their niches and roles in a multiplayer eco evolutionary game It erects signposts pertaining to network interactions structures stability dynamics scaling and invasibility It is not a recipe book or a road map but an atlas of possibilities a hitchhiker's guide **Biodiversity and Ecosystem Functioning** Michel Loreau, Shahid Naeem, Pablo Inchausti, 2002 This is the hottest area in ecology and environmental sciences right now I think this is an excellent proposal Professor James Grover University of Texas at Arlington USA The outline is excellent This is going to be the hottest book in ecology over the next 5 to 10 years Professor Michael Hochberg Université de Montpellier 2 France Determining the scientific relationship between biodiversity and ecosystem functioning has now emerged as one of the most important challenges in ecological and environmental science This book provides a timely synthesis and critical assessment in order to generate a consensus on the main issues involved and stimulate new perspectives for future research Computational Ecology: Graphs, Networks And Agent-based Modeling Wenjun Zhang, 2012-05-04 Graphs networks and agent based modeling are the most thriving and attracting sciences used in ecology and environmental sciences As such this book is the first comprehensive treatment of the subject in the areas of

ecology and environmental sciences From this integrated and self contained book researchers university teachers and students will be provided with an in depth and complete insight on knowledge methodology and recent advances of graphs networks and agent based modeling in ecology and environmental sciences Java codes and a standalone software package will be presented in the book for easy use for those not familiar with mathematical details **Systemic Approaches in**

Bioinformatics and Computational Systems Biology: Recent Advances Lecca, Paola,Tulpan, Dan,Rajaraman, Kanagasabai,2011-12-31 The convergence of biology and computer science was initially motivated by the need to organize and process a growing number of biological observations resulting from rapid advances in experimental techniques Today however close collaboration between biologists biochemists medical researchers and computer scientists has also generated remarkable benefits for the field of computer science Systemic Approaches in Bioinformatics and Computational Systems Biology Recent Advances presents new techniques that have resulted from the application of computer science methods to the organization and interpretation of biological data The book covers three subject areas bioinformatics computational biology and computational systems biology It focuses on recent systemic approaches in computer science and mathematics that have been used to model simulate and more generally experiment with biological phenomena at any scale *Ecocentric fisheries management in european seas: Data gaps, base models and initial assessments, volume I* Athanassios C.

Tsikliras,Georgi M. Daskalov,Georgios Sylaios,Gianpaolo Coro,Marco Scotti,David Grémillet,2023-10-31 *Habitat and Distribution Models of Marine and Estuarine Species: Advances for a Sustainable Future* Mary C. Fabrizio,Mark J.

Henderson,Kenneth Alan Rose,Pierre Petitgas,2022-11-23 *Unifying Ecology Across Scales: Progress, Challenges and Opportunities* Mary I. O'Connor,Diego Barneche,Julie Messier,Angelica L. Gonzalez,2020-12-29 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact ,

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Large-Scale Ecology: Model Systems to Global Perspectives, 2016-10-05 Advances in Ecological Research is one of the most successful series in the highly competitive field of ecology This thematic volume focuses on large scale ecology publishing important reviews that contribute to our understanding of the field Presents the most updated information on the field of large scale ecology publishing topical and important reviews Provides all information that relates to a thorough understanding of the field Includes data on physiology populations and communities of plants and animals Trait-Mediated Indirect Interactions Takayuki Ohgushi, Oswald Schmitz, Robert D. Holt, 2012-12-06 This book reviews state of the art research into trait based effects and their importance in community and ecosystem ecology

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