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FOOD WEBS

Integration of Patterns & Dynamics

Edited by Gary A. Polis & Kirk O. Winemiller

Food Webs Integration Of Patterns Dynamics

**Gary A. Polis, Mary E. Power, Gary R.
Huxel**



Food Webs Integration Of Patterns Dynamics:

Food Webs Gary A. Polis, Kirk O. Winemiller, 2013-04-17 Reflecting the recent surge of activity in food web research fueled by new empirical data this authoritative volume successfully spans and integrates the areas of theory basic empirical research applications and resource problems Written by recognized leaders from various branches of ecological research this work provides an in depth treatment of the most recent advances in the field and examines the complexity and variability of food webs through reviews new research and syntheses of the major issues in food web research Food Webs features material on the role of nutrients detritus and microbes in food webs indirect effects in food webs the interaction of productivity and consumption linking cause and effect in food webs temporal and spatial scales of food web dynamics applications of food webs to pest management fisheries and ecosystem stress Three comprehensive chapters synthesize important information on the role of indirect effects productivity and consumer regulation and temporal spatial and life history influences on food webs In addition numerous tables figures and mathematical equations found nowhere else in related literature are presented in this outstanding work Food Webs offers researchers and graduate students in various branches of ecology an extensive examination of the subject Ecologists interested in food webs or community ecology will also find this book an invaluable tool for understanding the current state of knowledge of food web research **Food Webs**

Gary A. Polis, Kirk O. Winemiller, 1996 **Dynamic Food Webs** Peter C de Ruiter, Volkmar Wolters, John C Moore, 2005-12-20 Dynamic Food Webs challenges us to rethink what factors may determine ecological and evolutionary pathways of food web development It touches upon the intriguing idea that trophic interactions drive patterns and dynamics at different levels of biological organization dynamics in species composition dynamics in population life history parameters and abundances and dynamics in individual growth size and behavior These dynamics are shown to be strongly interrelated governing food web structure and stability and the role of populations and communities play in ecosystem functioning Dynamic Food Webs not only offers over 100 illustrations but also contains 8 riveting sections devoted to an understanding of how to manage the effects of environmental change the protection of biological diversity and the sustainable use of natural resources Dynamic Food Webs is a volume in the Theoretical Ecology series Relates dynamics on different levels of biological organization individuals populations and communities Deals with empirical and theoretical approaches Discusses the role of community food webs in ecosystem functioning Proposes methods to assess the effects of environmental change on the structure of biological communities and ecosystem functioning Offers an analyses of the relationship between complexity and stability in food webs [Handbook of Ecosystem Theories and Management](#) Felix Muller, 2000-02-10 As part of the Environmental and Ecological Modeling Handbooks series the Handbook of Ecosystem Theories and Management provides a comprehensive overview of ecosystem theory and the tools ecological engineering ecological modeling ecotoxicology and ecological economics to manage these systems The book is laid out to provide a summary or survey of each topic using many

tables and figures Concepts definitions important findings basic hypotheses important correlations between theories and observation with illustrative graphs are included The comprehensive treatment of ecosystem theory and application of theoretical tools and the integration of classical theory and real world examples sets this book apart It covers newly emerging topical areas as well as nontraditional topical areas i e chaos that will interest professionals trained in previous decades and enlighten those now entering into formal training The general approach taken by the authors makes this an essential reference and handbook for professionals and students

Food Webs at the Landscape Level Gary A. Polis, Mary E. Power, Gary R. Huxel, 2004-02-22 Paying special attention to the fertile boundaries between terrestrial freshwater and marine ecosystems this work shows not only what this new methodology means for ecology conservation and agriculture but also serves as a fitting tribute to Gary Polis and his major contributions to the field

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

Food Webs of the Cosumnes River, CA Beth Chasnoff, 2005

New Zealand Journal of Ecology, 2003 *Feeding, Reproduction and Dispersal of a Generalist Predator, Pterostichus Cupreus L. (Coleoptera, Carabidae) Related to Agricultural Landscape Composition* Riccardo Bommarco, 1997 *Ecology*, 1998 *Marine & Freshwater Research*, 2007 *Encyclopedia of Ecology* Sven Erik Jørgensen, Brian D. Fath, 2008 The Encyclopedia of Ecology contains contributions from international experts on a diverse array of topics related to ecology It provides current and comprehensive information on many themes including behavioral ecology ecological processes ecological modeling ecological engineering ecological indicators ecological informatics ecosystems ecotoxicology evolutionary ecology general ecology global ecology human ecology and systems ecology The online version includes extensive internal cross referencing and dynamic linking to journal articles and abstract databases

Modeling Spatiotemporal Dynamics in Ecology Jordi Bascompte, Ricard V. Sole, 1998 Throughout its history ecology has largely been a descriptive science Scientists are in need of a theoretical framework that will assist in the understanding of observed patterns and will serve as a predictive tool Since ecological systems are dynamic and spatially extended it is particularly important to understand the processes underlying spatiotemporal patterns This book reviews one of the newest and most important areas of theoretical ecology the study of spatiotemporal dynamics by means of a spatially explicit approximation that allows the investigation of the effects of real space

Ecology of Freshwater Fish, 2000 **Archiv Für Hydrobiologie**, 2002 Resource Subsidies to Arthropod Food Webs at a Pond-forest Boundary Johanna Marie Kraus, 2006 Proceedings International Association of Theoretical and Applied Limnology, 2008 Biodiversity and Conservation: Causes and consequences of biodiversity loss 1 : development, habitat loss and invasive species Richard J. Ladle, 2009 Although biodiversity is a relatively new coinage scientists have been studying the subject it describes long before the word's first

appearance in the language in the mid 1980s In 1973 for instance the UK Systematics Association held a symposium on The Changing Flora and Fauna of Britain which concluded that not enough attention was being paid to the conservation of rarities a conclusion also reached said the symposium at a meeting of the Linnaean Society some forty years earlier By 1980 the Global 2000 Report to the President published by the US Council on Environmental Quality starkly warned of a diminution of up to one fifth of all species by the turn of the century and there is now a growing consensus that the world faces a biodiversity crisis a potentially catastrophic global loss of genetic ecosystem and most obviously species diversity Indeed especially since the UN Convention on Biological Diversity was promulgated in Rio de Janeiro in 1992 conserving biodiversity has become the principal focus of the global conservation movement Indeed the study of the origins maintenance and protection of diversity has become perhaps the most vibrant offshoot of ecology and conservation studies It is increasingly taught and studied in universities and other research institutions around the world Addressing the need for an authoritative reference work to make sense of this rapidly growing subject and its ever more complex and multidisciplinary corpus of scholarly literature Biodiversity and Conservation is a new title in the Routledge series Critical Concepts in the Environment Edited by Richard Ladle of Oxford University s Centre for the Environment this new Major Work brings together in five volumes the foundational and the very best cutting edge scholarship to provide a synoptic view of all the key issues and current debates

Temperature, Trout, and Trophic Responses Leon C. Hinz, 2000 **Recent Developments in Fundamental and Applied Plankton Research** Ellen van Donk, Maarten Boersma, Piet Spaak, 2003

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