

Tropical Ecosystems And Ecological Concepts

Tropical Ecosystems and Ecological Concepts
Understanding Basic Ecological Concepts
Aquatic Parasitology: Ecological and Environmental Concepts and Implications of Marine and Freshwater Parasites
Insect Ecology: Concepts to Management
Environmental Concepts, Policies, and Strategies
The Law and Ecology of Pesticides and Pest Management
Ecosystem Concepts for Sustainable Bivalve Mariculture
Development of Microbial Ecological Theory: Stability, Plasticity, and Evolution of Microbial Ecosystems
Phytoplankton and Equilibrium Concept: The Ecology of Steady-State Assemblages
Managing Biological and Ecological Systems
Concepts and Values in Biodiversity
Understanding Basic Ecological Concepts
Seminal Ideas for the Next Twenty-Five Years of Advances
The Species Problem
Multi-Agent-Based Simulations Applied to Biological and Environmental Systems
Ecology Revisited
Expanding Peace Ecology: Peace, Security, Sustainability, Equity and Gender
Encyclopedia of Social Work
A Critique for Ecology
Ecological Concepts
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Ecological Society. Symposium

Tropical Ecosystems and Ecological Concepts Understanding Basic Ecological Concepts Aquatic Parasitology: Ecological and Environmental Concepts and Implications of Marine and Freshwater Parasites Insect Ecology: Concepts to Management Environmental Concepts, Policies, and Strategies The Law and Ecology of Pesticides and Pest Management Ecosystem Concepts for Sustainable Bivalve Mariculture Development of Microbial Ecological Theory: Stability, Plasticity, and Evolution of Microbial Ecosystems Phytoplankton and Equilibrium Concept: The Ecology of Steady-State Assemblages Managing Biological and Ecological Systems Concepts and Values in Biodiversity Understanding Basic Ecological Concepts Seminal Ideas for the Next Twenty-Five Years of Advances The Species Problem Multi-Agent-Based Simulations Applied to Biological and Environmental Systems Ecology Revisited Expanding Peace Ecology: Peace, Security, Sustainability, Equity and Gender Encyclopedia of Social Work A Critique for Ecology Ecological Concepts *Patrick L. Osborne Audrey N. Tomera Nico J. Smit K. V. Hari Prasad John Rose Mary Jane Angelo National Research Council Shin Haruta Luigi Naselli-Flores Brian D. Fath Dirk Lanzerath Audrey N. Tomera Jerome A. Katz David N. Stamos Adamatti, Diana Francisca Astrid Schwarz Úrsula Oswald Spring Robert Henry Peters British Ecological Society. Symposium*

an introductory textbook on tropical ecology unique in its international scope and balanced coverage of both aquatic and terrestrial systems

this introductory text for high school students delves into the ecological topics that young people relate to global warming deforestation water supplies how communities and ecosystems interact and much more photographs drawings and charts and reviews help students come to grips with complex issues a variety of labs and activities build interest as they simultaneously develop thinking skills understanding basic ecological concepts is ideal for non science students

this open access volume is the first to provide a comprehensive overview of the ecological and environmental characteristics of marine and freshwater parasites in three clearly organized sections world leading authors present the current state of our knowledge as well as the future trends for their respective fields in aquatic parasitology first the basic life cycle strategies of the various major groups of aquatic parasites are presented including protists myxozoa aquatic fungi helminths and arthropods subsequent chapters explore the ecological implications of aquatic parasites covering topics such as biodiversity evolution community structures behavior and conservation to name a few in addition important developments in research are presented such as the use of different molecular tools and edna in aquatic parasitology the final section is devoted to the new field of environmental parasitology where readers will find contributions on biological markers invasive species and bioindicators of environmental pollution among others due attention is also given to zoonoses aquaculture and the effects of climate change on aquatic parasites all chapters include original high quality illustrations and never before seen photographs which complement the diverse aspects of aquatic parasitology described thus this book is a must for every parasitologist and ecologist

this book presents comprehensive information on various aspects of ecology with special reference to insects to form a platform to design an ecologically sound insect pest management insects are the most dominant and diverse group of living organism on earth owing to their smaller size smaller space and food requirements more number of generation per unit time insects serves as one of the best subject matter for studies on various ecological aspects such as chemical ecology population dynamics predator parasitoid prey interactions etc the knowledge on various aspects of insect ecology helps in formulating an effective environmentally benign insect pest management this book is of interest and use to the post graduate students and researchers working on various aspects of insect ecology with special emphasis on population dynamics chemical ecology tri tropic interactions ecological engineering and ecological insect pest management

this compilation of 20 papers published in the international journal of environmental studies in the last three years shows results obtained from surveys into the economic social and political background of environmental decisions and planning these results encompass a wide range of topics relevant to the study of the environment the main areas under discussion are politics control strategies determinism rural planning and styles of environmental and agricultural strategies annotation copyrighted by book news inc portland or

although concerns over the ecological impacts of pesticides gave rise to the environmental movement of the late 1960s and 1970s

since that time pesticide use and its effects have been largely ignored by the law and by legal scholars this book addresses this omission by providing a unique and serious treatment of the significance of pesticide issues in environmental law and takes an ecological perspective on the legal issues dealing with a wide range of questions relating to pests and pesticides the book focuses primarily on agricultural pesticide use as the largest contaminator in the us it also examines the legacy of past pesticide use and analyzes how recent developments in ecological science can inform the law and increase our understanding of ecology interdisciplinary in its approach the book will be of interest to academics lawyers scientists and environmental and agricultural professionals

u s mariculture production of bivalve molluscs those cultivated in the marine environment has roughly doubled over the last 25 years although mariculture operations may expand the production of seafood without additional exploitation of wild populations they still depend upon and affect natural ecosystems and ecosystem services every additional animal has an incremental effect arising from food extraction and waste excretion increasing domestic seafood production in the united states in an environmentally and socially responsible way will likely require the use of policy tools such as best management practices bmps and performance standards bmps represent one approach to protecting against undesirable consequences of mariculture an alternative approach to voluntary or mandatory bmps is the establishment of performance standards for mariculture variability in environmental conditions makes it difficult to develop bmps that are sufficiently flexible and adaptable to protect ecosystem integrity across a broad range of locations

and conditions an alternative that measures performance in sustaining key indicators of ecosystem state and function may be more effective because bmps address mariculture methods rather than monitoring actual ecosystem responses they do not guarantee that detrimental ecosystem impacts will be controlled or that unacceptable impact will be avoided ecosystem concepts for sustainable bivalve mariculture finds that while performance standards can be applied for some broad ecosystem indicators bmps may be more appropriate for addressing parameters that change from site to site such as the species being cultured different culture methods and various environmental conditions this book takes an in depth look at the environmental social and economic issues to present recommendations for sustainable bivalve mariculture

how can we develop microbial ecological theory the development of microbial ecological theory has a long way to reach its goal advances in microbial ecological techniques provide novel insights into microbial ecosystems articles in this book are challenging to determine the central and general tenets of the ecological theory that describes the features of microbial ecosystems their achievements expand the frontiers of current microbial ecology and propose the next step assemblage of these diverse articles hopefully helps to go on this long journey with many avenues for advancement of microbial ecology

this volume summarises the outcome of the 13th workshop of the international association of phytoplankton taxonomy and ecology iap on if and if so under what conditions phytoplankton assemblages reach equilibrium in natural environments quite a number of

ecological concepts use terms such as ecological equilibrium stability steady state climax stable state etc however these ecological concepts often have been translations of scientific theories developed in physics or chemistry but they almost always lack scientific corroboration the problem being that often these concepts remain vague and they are not formally defined here an attempt to formally recognize what equilibrium is in phytoplankton ecology is traced the book also contains papers by leading scientists on the taxonomy of two selected key groups cryptomonads and filamentous cyanoprokaryotes this volume is addressed to all those involved in phytoplankton taxonomy and ecology and in ecology itself

bringing together a wealth of knowledge environmental management handbook second edition gives a comprehensive overview of environmental problems their sources their assessment and their solutions through in depth entries and a topical table of contents readers will quickly find answers to questions about environmental problems and their corresponding management issues this six volume set is a reimagining of the award winning encyclopedia of environmental management published in 2013 and features insights from more than 400 contributors all experts in their field the experience evidence methods and models used in studying environmental management are presented here in six stand alone volumes arranged along the major environmental systems features the first handbook that demonstrates the key processes and provisions for enhancing environmental management addresses new and cutting edge topics on ecosystem services resilience sustainability food energy water nexus socio ecological systems and more provides an excellent basic knowledge on environmental systems explains how these systems function and offers strategies on how

to best manage them includes the most important problems and solutions facing environmental management today in this second volume managing biological and ecological systems the reader is introduced to the general concepts and processes of the biosphere and all its systems this volume explains how these systems function and provides strategies on how to best manage them it serves as an excellent resource for finding basic knowledge on the biosphere and ecological systems and includes important problems and solutions that environmental managers face today this book practically demonstrates the key processes methods and models used in studying environmental management

biodiversity may refer to the diversity of genes species or ecosystems in general these varying concepts of biodiversity occasionally lead to conflicts among researchers and policy makers as each of them require a customized type of protection strategy this book addresses the questions surrounding the merits of conserving an existing situation evolutionary development or the intentional substitution of one genome species or ecosystem for another any practical steps towards the protection of biodiversity demand a definition of that which is to be protected and in turn the motivations for protecting biodiversity is biodiversity a necessary model which is also useful or does it carry intrinsic value debates like this are particularly complex when interested parties address it from different conceptual and moral perspectives comprised of three parts each complemented by a short introductory paragraph this collection presents a variety of approaches to this challenge the chapters cover the perspectives of environmental scientists with expertise in evolutionary environmental biology systematic zoology and botany as well as those of researchers with expertise in

philosophy ethics politics law and economics this combination facilitates a truly interdisciplinary debate by highlighting hitherto unacknowledged implications that inform current academic and political debates on biodiversity and its protection the book should be of interest to students and researchers of environment studies biodiversity environmental philosophy ethics and management

an introductory ecology workbook

seminal ideas for the next twenty five years of advances is the second of two volumes exploring and celebrating some of the most long lasting and influential contributions to advances in entrepreneurship firm emergence and growth

stamos squarely confronts the problem of determining what a biological species is whether species are real and the nature of their reality he critically considers the evolution of the major contemporary views of species and also offers his own solution to the species problem

the discovery and development of new computational methods have expanded the capabilities and uses of simulations with agent based models the applications of computer simulations are significantly enhanced multi agent based simulations applied to biological and environmental systems is a pivotal reference source for the latest research on the implementation of autonomous agents in computer simulation paradigms featuring extensive coverage on relevant applications such as biodiversity conservation pollution

reduction and environmental risk assessment this publication is an ideal source for researchers academics engineers practitioners and professionals seeking material on various issues surrounding the use of agent based simulations

as concerns about humankind s relationship with the environment move inexorably up the agenda this volume tells the story of the history of the concept of ecology itself and adds much to the historical and philosophical debate over this multifaceted discipline the text provides readers with an overview of the theoretical institutional and historical formation of ecological knowledge the varied local conditions of early ecology are considered in detail while epistemological problems that lie on the borders of ecology such as disunity and complexity are discussed the book traces the various phases of the history of the concept of ecology itself from its 19th century origins and antecedents through the emergence of the environmental movement in the later 20th century to the future and how ecology might be located in the environmental science framework of the 21st century the study of ecological phenomena has never been confined solely to the work of researchers who consider themselves ecologists it is rather a field of knowledge in which a plurality of practices concepts and theories are developed thus there exist numerous disciplinary subdivisions and research programmes within the field the boundaries of which remain blurred as a consequence the deliberation to adequately identify the ecological field of knowledge its epistemic and institutional setting is still going on this will be of central importance not only in locating ecology in the frame of 21st century environmental sciences but also for a better understanding of how nature and culture are intertwined in debates about pressing problems such as climate change the protection of species diversity or the management of

renewable resources

this book has peer reviewed chapters by scholars from australia canada germany japan mexico and the usa that were presented to the ecology and peace commission epc of the international peace research association ipra in november 2012 in japan the chapters address these themes expanding peace ecology peace security sustainability equity and gender two discourses on global climate change impacts from climate change and security to sustainability transition peace research and greening in the red zone community based ecological restoration to enhance resilience and transitions toward peace social and environmental vulnerability in a river basin of mexico mobile learning rebuilding community through building communities supporting community capacities post natural disaster experience transforming consciousness through peace environmental education building peace by rebuilding community ability expectations and peace and on satoyama sustainability and peace

this is a book of criticism it is directed at contemporary ecology but would apply to any science or indeed any statement that claims to contain information application of simple criteria to judge the information in ecological statements reveals deep inadequacies in the science furthermore the complexity of the contemporary field of ecology and the mistraining of a generation of ecologists has obscured its weakness as a result many ecologists are unaware of the failings of the science although others are deeply concerned for the future of the field the author professor peters argues that a return to simple question of fact to observations and to questions of

general relevance to science and society can make ecology a useful practical and informative science such science is desperately needed to meet the problems of the age a thought provoking book that will be of interest to all scientists but in particular ecologists from undergraduates to senior academics and professionals

this book contains the proceedings of the symposium organized to celebrate the 75th anniversary of the founding of the british ecological society and its purpose is to try and assess the contribution which ecology has made to our understanding of the natural world

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