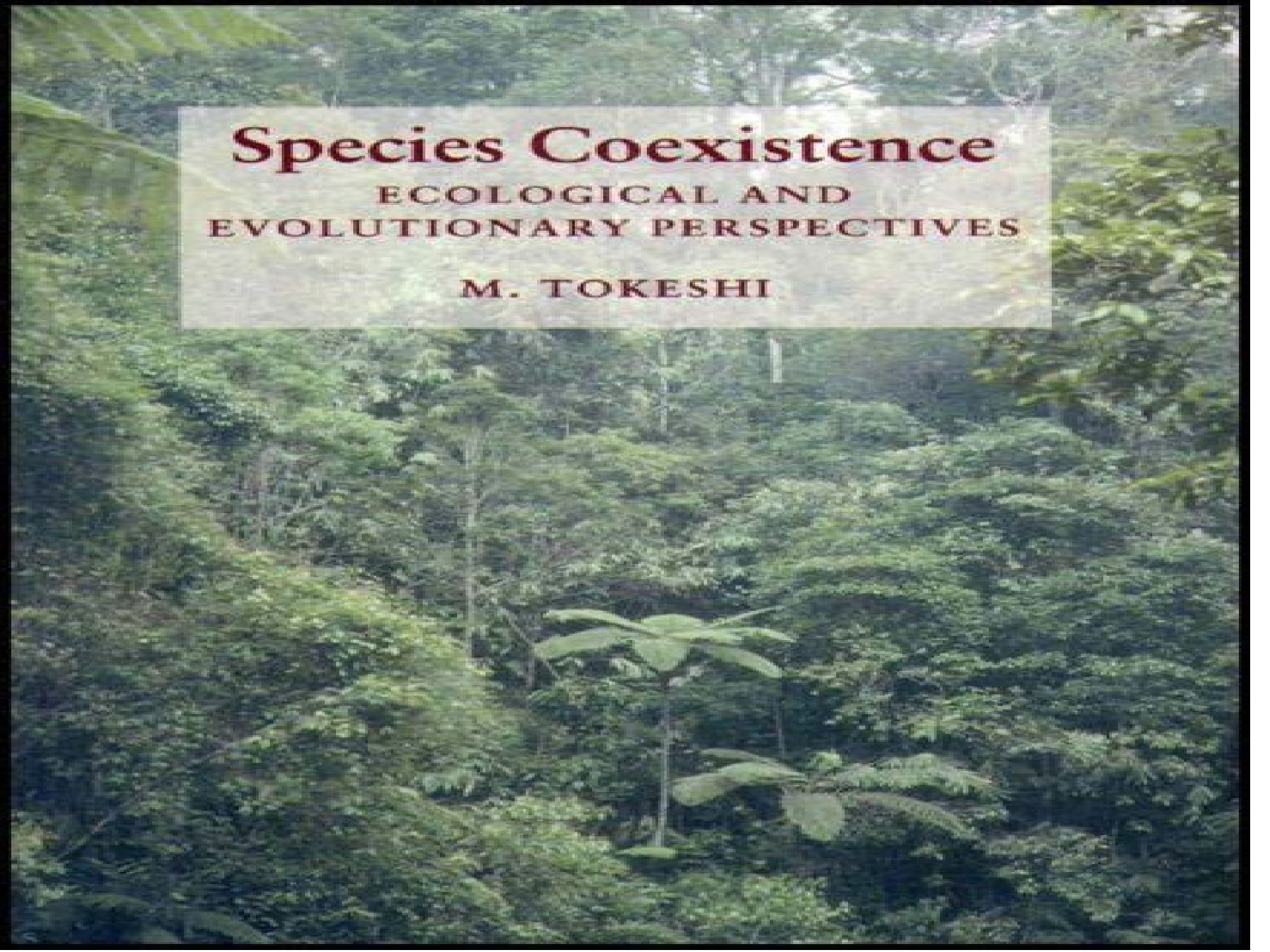


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Species Coexistence

ECOLOGICAL AND
EVOLUTIONARY PERSPECTIVES

M. TOKESHI

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M Mosston



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Species Coexistence M. Tokeshi, 1999 As a novel endeavour in ecological science this book focuses on a major issue in organismal life on Earth species coexistence The book crosses the usual disciplinary boundaries between palaeobiology ecology and evolutionary biology and provides a timely overview of the patterns and processes of species diversity and coexistence on a range of spatio temporal scales In this unique synthesis the author offers a critical and penetrating examination of the concepts and models of coexistence and community structure thus making a valuable contribution to the field of community ecology There is an emphasis on clarity and accessibility without sacrificing scientific rigour making this book suitable for both advanced students and individual researchers in ecology palaeobiology and environmental and evolutionary biology Comprehensive and contemporary synthesis Pulls together the aggregate influence of evolution and ecology on patterns in communities Balanced mix of theory and empirical work Clearly structured chapters with short introduction and summary

Species Coexistence, 2009 Ecology Michael Begon, Colin R. Townsend, 2020-11-11 A definitive guide to the depth and breadth of the ecological sciences revised and updated The revised and updated fifth edition of Ecology From Individuals to Ecosystems now in full colour offers students and practitioners a review of the ecological sciences The previous editions of this book earned the authors the prestigious Exceptional Life time Achievement Award of the British Ecological Society the aim for the fifth edition is not only to maintain standards but indeed to enhance its coverage of Ecology In the first edition 34 years ago it seemed acceptable for ecologists to hold a comfortable objective not to say aloof position from which the ecological communities around us were simply material for which we sought a scientific understanding Now we must accept the immediacy of the many environmental problems that threaten us and the responsibility of ecologists to play their full part in addressing these problems This fifth edition addresses this challenge with several chapters devoted entirely to applied topics and examples of how ecological principles have been applied to problems facing us highlighted throughout the remaining nineteen chapters Nonetheless the authors remain wedded to the belief that environmental action can only ever be as sound as the ecological principles on which it is based Hence while trying harder than ever to help improve preparedness for addressing the environmental problems of the years ahead the book remains in its essence an exposition of the science of ecology This new edition incorporates the results from more than a thousand recent studies into a fully up to date text Written for students of ecology researchers and practitioners the fifth edition of Ecology From Individuals to Ecosystems is an essential reference to all aspects of ecology and addresses environmental problems of the future

The Theory of Ecological Communities Mark Vellend, 2020-09-15 A plethora of different theories models and concepts make up the field of community ecology Amid this vast body of work is it possible to build one general theory of ecological communities What other scientific areas might serve as a guiding framework As it turns out the core focus of community ecology understanding patterns of diversity and composition of biological variants across space and time

is shared by evolutionary biology and its very coherent conceptual framework population genetics theory The Theory of Ecological Communities takes this as a starting point to pull together community ecology's various perspectives into a more unified whole Mark Vellend builds a theory of ecological communities based on four overarching processes selection among species drift dispersal and speciation These are analogues of the four central processes in population genetics theory selection within species drift gene flow and mutation and together they subsume almost all of the many dozens of more specific models built to describe the dynamics of communities of interacting species The result is a theory that allows the effects of many low level processes such as competition facilitation predation disturbance stress succession colonization and local extinction to be understood as the underpinnings of high level processes with widely applicable consequences for ecological communities Reframing the numerous existing ideas in community ecology The Theory of Ecological Communities provides a new way for thinking about biological composition and diversity

Encyclopedia of Ecology Brian D. Fath, 2014-11-03 The groundbreaking Encyclopedia of Ecology provides an authoritative and comprehensive coverage of the complete field of ecology from general to applied It includes over 500 detailed entries structured to provide the user with complete coverage of the core knowledge accessed as intuitively as possible and heavily cross referenced Written by an international team of leading experts this revolutionary encyclopedia will serve as a one stop shop to concise stand alone articles to be used as a point of entry for undergraduate students or as a tool for active researchers looking for the latest information in the field Entries cover a range of topics including Behavioral Ecology Ecological Processes Ecological Modeling Ecological Engineering Ecological Indicators Ecological Informatics Ecosystems Ecotoxicology Evolutionary Ecology General Ecology Global Ecology Human Ecology System Ecology The first reference work to cover all aspects of ecology from basic to applied Over 500 concise stand alone articles are written by prominent leaders in the field Article text is supported by full color photos drawings tables and other visual material Fully indexed and cross referenced with detailed references for further study Writing level is suited to both the expert and non expert Available electronically on

ScienceDirect shortly upon publication

Evolutionary Ecology of Parasites Robert Poulin, 2011-06-27 Parasites have evolved independently in numerous animal lineages and they now make up a considerable proportion of the biodiversity of life Not only do they impact humans and other animals in fundamental ways but in recent years they have become a powerful model system for the study of ecology and evolution with practical applications in disease prevention Here in a thoroughly revised and updated edition of his influential earlier work Robert Poulin provides an evolutionary ecologist's view of the biology of parasites He sets forth a comprehensive synthesis of parasite evolutionary ecology integrating information across scales from the features of individual parasites to the dynamics of parasite populations and the structuring of parasite communities Evolutionary Ecology of Parasites presents an evolutionary framework for the study of parasite biology combining theory with empirical examples for a broader understanding of why parasites are as they are and do what they do

An up to date synthesis of the field the book is an ideal teaching tool for advanced courses on the subject Pointing toward promising directions and setting a research agenda it will also be an invaluable reference for researchers who seek to extend our knowledge of parasite ecology and evolution Forest Diversity and Function Michael Scherer-Lorenzen, Ernst-Detlef Schulze, 2005 Productivity biodiversity biogeochemical cycles tree *Creative Complex Systems* Kazuo Nishimura, Masatoshi Murase, Kazuyoshi Yoshimura, 2021-10-26 In recent years problems such as environmental and economic crises and pandemics caused by new viruses have been occurring on a global scale Globalization brings about benefits but it can increase the potential risks of systemic problems leading to system wide disruptions The coronavirus pandemic declared on March 11 2020 by the World Health Organization has revealed social disparities in the form of a higher risk of death for people of low socioeconomic status and has caused massive destruction of the economy and of globalization itself Extensive efforts to cope with these challenges have often led to the emergence of additional problems due to the chain of hidden causation What can be done to protect against such emerging challenges Despite the resulting complexity once these individual problems are considered as different aspects of a single whole seemingly contradictory issues can become totally understandable as they can be integrated into a single coherent framework This is the integrationist approach in contrast to the reductionist approach Situations of this kind are truly relevant to understanding the question What are creative complex systems This book features contributions by members and colleagues of the Kyoto University International Research Unit of Integrated Complex System Science It broadens our outlook from the traditional view of stability in which global situations are eventually stabilized after the impact of destruction to creative complex systems Chapter 1 David Pines and Me is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com) *Biodiversity* Kevin J. Gaston, John I. Spicer, 2013-04-22 This concise introductory text provides a complete overview of biodiversity what it is how it arose its distribution why it is important human impact upon it and what should be done to maintain it Timely overview of the serious attempts made to quantify and describe biodiversity in a scientific way Acts as an easy entry point into the primary literature Provides real world examples of key issues including illustrations of major temporal and spatial patterns in biodiversity Designed primarily with undergraduate students and course lecturers in mind it will also be of interest to anyone who requires an overview of and entry to the vast literature on these topics The figures from in the book may be freely downloaded from the book website on [wiley.com](https://www.wiley.com) *Nonequilibrium Ecology* Klaus Rohde, 2006-01-19 Ecology has long been shaped by ideas that stress the sharing of resources and the competition for those resources and by the assumption that populations and communities typically exist under equilibrium conditions in habitats saturated with both individuals and species However much evidence contradicts these assumptions and it is likely that nonequilibrium is much more widespread than might be expected This book is unique in focusing on nonequilibrium aspects of ecology providing evidence for nonequilibrium and equilibrium in populations and metapopulations

in extant communities and in ecological systems over evolutionary time including nonequilibrium due to recent and present mass extinctions The assumption that competition is of overriding importance is central to equilibrium ecology and much space is devoted to its discussion As communities of some taxa appear to be shaped more by competition than others an attempt is made to find an explanation for these differences

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