

Community Ecology



Community Ecology Community Ecology

Herman A. Verhoef, Peter J. Morin



Community Ecology Community Ecology:

Community Ecology R. Putnam, 1993-09-30 Chapter 1 establishes the context of such a search for pattern presenting essential definitions and exploring early work on community structure and organization The various biotic and abiotic factors which may influence communities and their dynamics are reviewed in Chapter 2 while the way in which the interrelationships between organisms are structured within the community in food webs or in the partitioning of available resources are considered in separate chapters on food webs niche relationships and species guilds Later chapters explore the factors determining the assembly of communities species composition and pattern of relative abundance and the relative roles of deterministic and stochastic processes in determining community structure The concluding section explores the implications of observed patterns of structure and organization for stability The mathematical analyses which are an essential component of this topic are included only where essential for understanding and are presented in special box features Each mathematical section has been carefully structured and fully explained in biological terms **Community Ecology** presents a refreshingly readable course text for advanced undergraduates in ecology **BOOK JACKET**

Community Ecology Jiro Kikkawa, Derek John Anderson, 1986 This multi author text has been planned as a companion to the successful volumes on theoretical ecology behavioural ecology and physiological ecology mentioned elsewhere in this catalogue The editors have covered the main approaches in community ecology **Community Ecology** Gary G. Mittelbach, Brian J. McGill, 2019-05-24 Community ecology has undergone a transformation in recent years from a discipline largely focused on processes occurring within a local area to a discipline encompassing a much richer domain of study including the linkages between communities separated in space metacommunity dynamics niche and neutral theory the interplay between ecology and evolution eco evolutionary dynamics and the influence of historical and regional processes in shaping patterns of biodiversity To fully understand these new developments however students continue to need a strong foundation in the study of species interactions and how these interactions are assembled into food webs and other ecological networks This new edition fulfils the book's original aims both as a much needed up to date and accessible introduction to modern community ecology and in identifying the important questions that are yet to be answered This research driven textbook introduces state of the art community ecology to a new generation of students adopting reasoned and balanced perspectives on as yet unresolved issues **Community Ecology** is suitable for advanced undergraduates graduate students and researchers seeking a broad up to date coverage of ecological concepts at the community level *Community Ecology* Herman A. Verhoef, Peter J. Morin, 2009-11-26 Community ecology is the study of the interactions between populations of co existing species This book provides a survey of the state of the art in theory and applications of community ecology with special attention to topology dynamics the importance of spatial and temporal scale as well as applications to emerging problems in human dominated ecosystems including the restoration and reconstruction of viable communities It adopts a mainly theoretical approach and

focuses on the use of network based theory which remains little explored in standard community ecology textbooks The book includes discussion of the effects of biotic invasions on natural communities the linking of ecological network structure to empirically measured community properties and dynamics the effects of evolution on community patterns and processes and the integration of fundamental interactions into ecological networks A final chapter indicates future research directions for the discipline This book provides ideal graduate seminar course material

Population and Community Ecology E. C. Pielou, 1974

Community Ecology Jared M. Diamond, Ted J. Case, 1986 A pluralistic approach to community ecology

Community Ecology Peter J. Morin, 2011-06-09 All life on earth occurs in natural assemblages called communities Community ecology is the study of patterns and processes involving these collections of two or more species Communities are typically studied using a diversity of techniques including observations of natural history statistical descriptions of natural patterns laboratory and field experiments and mathematical modelling Community patterns arise from a complex assortment of processes including competition predation mutualism indirect effects habitat selection which result in the most complex biological entities on earth including iconic systems such as rain forests and coral reefs This book introduces the reader to a balanced coverage of concepts and theories central to community ecology using examples drawn from terrestrial freshwater and marine systems and focusing on animal plant and microbial species The historical development of key concepts is described using descriptions of classic studies while examples of exciting new developments in recent studies are used to point toward future advances in our understanding of community organization Throughout there is an emphasis on the crucial interplay between observations experiments and mathematical models This second updated edition is a valuable resource for advanced undergraduates graduate students and established scientists who seek a broad overview of community ecology The book has developed from a course in community ecology that has been taught by the author since 1983 Figures and tables can be downloaded for free from www.wiley.com/go/morincommunityecology

Community Ecology Mark Gardener, 2014-02-01 Interactions between species are of fundamental importance to all living systems and the framework we have for studying these interactions is community ecology This is important to our understanding of the planets biological diversity and how species interactions relate to the functioning of ecosystems at all scales Species do not live in isolation and the study of community ecology is of practical application in a wide range of conservation issues The study of ecological community data involves many methods of analysis In this book you will learn many of the mainstays of community analysis including diversity similarity and cluster analysis ordination and multivariate analyses This book is for undergraduate and postgraduate students and researchers seeking a step by step methodology for analysing plant and animal communities using R and Excel Microsoft s Excel spreadsheet is virtually ubiquitous and familiar to most computer users It is a robust program that makes an excellent storage and manipulation system for many kinds of data including community data The R program is a powerful and flexible analytical system able to conduct a huge variety of analytical methods which means that the user only

has to learn one program to address many research questions Its other advantage is that it is open source and therefore completely free Novel analytical methods are being added constantly to the already comprehensive suite of tools available in R Mark Gardener is both an ecologist and an analyst He has worked in a range of ecosystems around the world and has been involved in research across a spectrum of community types His knowledge of R is largely self taught and this gives him insight into the needs of students learning to use R for complicated analyses

Community Ecology in a Changing World John H. Lawton, Otto Kinne, 2000 Theoretical Approaches to Community Ecology Luís Borda-de-Água, Paulo A. V. Borges, John Maxwell Halley, 2022-02-18

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