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LARSEN KIRBY

The Ecology Book CRC Press

This book presents the fundamental theory for non-standard diffusion problems in movement ecology. Lévy processes and anomalous diffusion have shown to be both powerful and useful tools for qualitatively and quantitatively describing a wide variety of spatial population ecological phenomena and dynamics, such as invasion fronts and search strategies. Adopting a self-contained, textbook-style approach, the authors provide the elements of statistical physics and stochastic processes on which the modeling of movement ecology is based and systematically introduce the physical characterization of ecological processes at the microscopic, mesoscopic and macroscopic levels. The explicit definition of these levels and their interrelations is particularly suitable to coping with the broad spectrum of space and time scales involved in bio-ecological problems. Including numerous exercises (with solutions), this text is aimed at graduate students and newcomers in this field at the interface of theoretical ecology, mathematical biology and physics.

Elements of Ecology Cambridge University Press

Elements of Mathematical Ecology provides an introduction to classical and modern mathematical models, methods, and issues in population ecology. The first part of the book is devoted to simple, unstructured population models that ignore much of the variability found in natural populations for the sake of tractability. Topics covered include density dependence, bifurcations, demographic stochasticity, time delays, population interactions (predation, competition, and mutualism), and the application of optimal control theory to the management of renewable resources. The second part of this book is devoted to structured population models, covering spatially-structured population models (with a focus on reaction-diffusion models), age-structured models, and two-sex models. Suitable for upper level students and beginning researchers in ecology, mathematical biology and applied mathematics, the volume includes numerous clear line diagrams that clarify the mathematics, relevant problems throughout the text that aid understanding, and supplementary mathematical and historical material that enrich the main text.

Antiracist Writing Assessment Ecologies Routledge

Environmental Biology offers an accessible introduction to the core elements of biology and the biosphere. With balanced coverage of aquatic and terrestrial examples throughout, the text builds logically to present a clear understanding of the fundamental processes of life before examining its more complex

components, namely individuals, populations, communities and ecosystems. A knowledge of environmental biology and its practical applications is essential for a deeper understanding of the environment. Environmental Biology offers an invaluable introduction to the living environment for all areas of study, from environmental history, agriculture and forestry, to impact assessment, climate change, ecology and conservation. *The Ecology Book* Springer Science & Business Media Known for its evolution theme and strong coverage of the relevance of ecology to everyday life and the human impact on ecosystems, the thoroughly revised Eighth Edition features expanded quantitative exercises, a restructured chapter on life history, a thoroughly revised species interactions unit including a chapter introducing the subject, and a new chapter on species interactions. To emphasize the dynamic and experimental nature of ecology, each chapter draws upon current research in the various fields of ecology while providing accessible examples that help you understand species natural history, specific ecosystems, the process of science, and ecological patterns at both an evolutionary and demographic scale. To engage you in using and interpreting data, a wide variety of Quantifying Ecology boxes walk through step-by-step examples of equations and statistical techniques.

Ecology: The Economy of Nature Cambridge University Press Integrates process and content of core areas of ecology using an engaging narrative, fascinating case studies, and stunning images throughout.

Handbook of Trait-Based Ecology Springer Science & Business Media

The cycling of elements such as carbon and nitrogen is of central importance in ecology, particularly when humans are causing changes to element cycles on a global scale. In this 1996 book a rigorous mathematical framework is developed to model how element cycles operate and interact in plants and soils, forming the foundations of a new ecosystem theory. From a few basic equations, powerful predictions can be generated covering a wide range of ecological phenomena related to element cycling. These predictions are tested extensively against field and laboratory studies of agricultural and forest ecosystems. This work will be of interest to graduate students and researchers in theoretical ecology, soil science, forestry and biogeochemistry.

Elements of Ecology Oxford University Press

The Fundamentals of ecology has all the characteristics of scientific explanation. It provides advanced students an insight into the rich and varied investigations on the modern concepts with particular reference to the Indian sub-continent. It is hoped that this attempt will shed some light on the expanding horizons,

serious controversy and major concepts by opposing schools of thought and stimulate others to clarify the subject further.

A New Ecology Springer Science & Business Media

Learn about species, environments, ecosystems and biodiversity in *The Ecology Book*. Part of the fascinating Big Ideas series, this book tackles tricky topics and themes in a simple and easy to follow format. Learn about Ecology in this overview guide to the subject, great for novices looking to find out more and experts wishing to refresh their knowledge alike! *The Ecology Book* brings a fresh and vibrant take on the topic through eye-catching graphics and diagrams to immerse yourself in. This captivating book will broaden your understanding of Ecology, with: - More than 90 of the greatest ideas in ecology - Packed with facts, charts, timelines and graphs to help explain core concepts - A visual approach to big subjects with striking illustrations and graphics throughout - Easy to follow text makes topics accessible for people at any level of understanding *The Ecology Book* is a captivating introduction to what's happening on our planet with the environment and climate change, aimed at adults with an interest in the subject and students wanting to gain more of an overview. Here you'll discover more than 90 of the greatest ideas when it comes to understanding the living world and how it works, through exciting text and bold graphics. Your Ecological Questions, Simply Explained How do species interact with each other and their environment? How do ecosystems change? What is biodiversity and can we afford to damage it? This fresh new guide looks at our influence on the planet as it grows, and answers these profound questions. If you thought it was difficult to learn about this field of science, *The Ecology Book* presents the information in a clear layout. Learn the key theories, movements, and events in biology, geology, geography, and environmentalism from the ideas of classical thinkers in this comprehensive guide. The Big Ideas Series With millions of copies sold worldwide, *The Ecology Book* is part of the award-winning Big Ideas series from DK. The series uses striking graphics along with engaging writing, making big topics easy to understand.

Imperial Ecology Cambridge University Press

Now in its seventh edition, this landmark textbook has helped to define introductory ecology courses for over four decades. With a dramatic transformation from previous editions, this text helps lecturers embrace the challenges and opportunities of teaching ecology in a contemporary lecture hall. The text maintains its signature evolutionary perspective and emphasis on the quantitative aspects of the field, but it has been completely rewritten for today's undergraduates. Modernised in a new streamlined format, from 27 to 23 chapters, it is manageable now for a one-term course. Chapters are organised around four to six key concepts that are repeated as major headings and repeated again in streamlined summaries. *Ecology: The Economy of Nature* is available with SaplingPlus. An online solution that combines an e-book of the text, Ricklef's powerful multimedia resources, and the robust problem bank of Sapling Learning. Every problem entered by a student will be answered with targeted feedback, allowing your students to learn with every question they answer.

Environmental Ecology Elsevier

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 Environment-Conflict Nexus in International Law Cambridge University Press

Elements of Ecology continues to explain ecological processes clearly and concisely, with a greater emphasis on the relevance of ecology to everyday life and the human impact on ecosystems. This dramatically revised edition discusses issues of human ecology throughout the text and provides a greater variety of opportunities for students to learn, practice, and develop quantitative and analytical skills. Current research examples and other content updates are supported by more than 200 redesigned, full-color illustrations, graphs, and tables. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Community Ecology CRC Press

Unpacks key assumptions about the 'environment', its relationship with violent conflict, and the justification for its protection underlying international law.

Stochastic Foundations in Movement Ecology Cambridge University Press

The ecosystem concept--the idea that flora and fauna interact with the environment to form an ecological complex--has long been central to the public perception of ecology and to increasing awareness of environmental degradation. In this book an eminent ecologist explains the ecosystem concept, tracing its evolution, describing how numerous American and European researchers contributed to its evolution, and discussing the explosive growth of ecosystem studies. Golley surveys the development of the ecosystem concept in the late nineteenth and early twentieth centuries and discusses the coining of the term ecosystem by the English ecologist Sir Arthur George Tansley in 1935. He then reviews how the American ecologist Raymond Lindeman applied the concept to a small lake in Minnesota and showed how the biota and the environment of the lake interacted through the exchange of energy. Golley describes how a seminal textbook on ecology written by Eugene P. Odum helped to popularize the ecosystem concept and how numerous other scientists

investigated its principles and published their results. He relates how ecosystem studies dominated ecology in the 1960s and became a key element of the International Biological Program biome studies in the United States--a program aimed at "the betterment of mankind" specifically through conservation, human genetics, and improvements in the use of natural resources; how a study of watershed ecosystems in Hubbard Brook, New Hampshire, blazed new paths in ecosystem research by defining the limits of the system in a natural way; and how current research uses the ecosystem concept. Throughout Golley shows how the ecosystem concept has been shaped internationally by both developments in other disciplines and by personalities and politics.

Empire and Ecology in the Bengal Delta APH Publishing
Aelian's Historical Miscellany is a pleasurable example of light reading for Romans of the early third century. Offering engaging anecdotes about historical figures, retellings of legendary events, and descriptive pieces - in sum: amusement, information, and variety - Aelian's collection of nuggets and narratives could be enjoyed by a wide reading public. A rather similar book had been published in Latin in the previous century by Aulus Gellius; Aelian is a late, perhaps the last, representative of what had been a very popular genre. Here then are anecdotes about the famous Greek philosophers, poets, historians, and playwrights; myths instructively retold; moralizing tales about heroes and rulers, athletes and wise men; reports about styles in dress, foods and drink, lovers, gift-giving practices, entertainments, religious beliefs and death customs; and comments on Greek painting. Some of the information is not preserved in any other source. Underlying it all are Aelian's Stoic ideals as well as this Roman's great admiration for the culture of the Greeks (whose language he borrowed for his writings).

Fundamentals of Ecology New Leaf Publishing Group
The widening interest in marine biology has led to the establishment of an increasing number of school and undergraduate courses in the subject. There are many books on various aspects of marine biology which students can read with advantage, but few that are suitable as introductory reading at the commencement of studies. This book has been compiled primarily as an aid for zoology students at the start of a special course on marine biology. The text is an introduction to the author's annual course for undergraduates. The aim has been a concise presentation of information and ideas over the general field of marine ecology, with guidance on the selection of more advanced reading. The sources of further information given at the end of each chapter have been chosen as far as possible from books and journals to which students should have reasonably easy access. These lists provide a selection of additional reading which starts at an elementary level and becomes more advanced as the course proceeds. Students entering the author's course are usually in their third undergraduate year, and a general knowledge of the phyla is therefore assumed.

Gasping Fish and Panting Squids Jones & Bartlett Learning
A New Ecology presents an ecosystem theory based on the following ecosystem properties: physical openness, ontic

openness, directionality, connectivity, a complex dynamic for growth and development, and a complex dynamic response to disturbances. Each of these properties is developed in detail to show that these basic and characteristic properties can be applied to explain a wide spectrum of ecological observations and conceptions. It is also shown that the properties have application for environmental management and for assessment of ecosystem health.* Demonstrates an ecosystem theory that can be applied to explain ecological observations and rules* Presents an ecosystem theory based upon a systems approach* Discusses an ecosystem theory that is based on a few basic properties that are characteristic for ecosystems

Ecology Academic Press

This is the urban century in which, for the first time, the majority of people live in towns and cities. Understanding how people influence, and are influenced by, the 'green' component of these environments is therefore of enormous significance. Providing an overview of the essentials of urban ecology, the book begins by covering the vital background concepts of the urbanisation process and the effect that it can have on ecosystem functions and services. Later sections are devoted to examining how species respond to urbanisation, the many facets of human-ecology interactions, and the issues surrounding urban planning and the provision of urban green spaces. Drawing on examples from urban settlements around the world, it highlights the progress to date in this burgeoning field, as well as the challenges that lie ahead.

Urban Ecology U of Minnesota Press

Explains the structure, function and dynamics of terrestrial ecosystems and demonstrates the application of ecosystem ecology to current environmental problems.

Introduction to Systems Ecology Springer

Trait-based ecology is rapidly expanding. This comprehensive and accessible guide covers the main concepts and tools in functional ecology.

Ecological Stoichiometry John Wiley & Sons

Community ecology is the study of the interactions between populations of co-existing species. Co-edited by two prominent community ecologists and featuring contributions from top researchers in the field, this book provides a survey of the state-of-the-art in both the theory and applications of the discipline. It pays special attention to topology, dynamics, and the importance of spatial and temporal scale while also looking at applications to emerging problems in human-dominated ecosystems (including the restoration and reconstruction of viable communities).

Community Ecology: Processes, Models, and Applications 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.