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Dung Beetle Ecology CRC Press

Once found throughout the Rocky Mountains and forests of the northern states, the lynx now hides in pockets of its former range while feeding mostly on small animals like snowshoe hares. A team of government and university scientists review the newest scientific knowledge of this unique cat's history, distribution, and ecology. The chapters on this web site provide information for current scientific and public debates regarding the fate of the lynx in the United States. Chapters look at the relationships among lynx, its habitat, and its prey. The attributes of northern versus southern lynx populations are compared and contrasted. The authors caution against making decisions without enough knowledge and show where we lack information. While the authors present the latest preliminary research results on lynx and offer some qualified insights into lynx management, the book's intent is to assess the current state of knowledge regarding lynx.

Experiments in Ecology Oxford University Press on Demand
This account of the current state of foraging theory is also a valuable description of the use of optimality theory in behavioral ecology in general. Organizing and introducing the main research themes in economic analyses of animal feeding behavior, the authors analyze the empirical evidence bearing on foraging models and answer criticisms of optimality modeling. They explain the rationale for applying optimality models to the strategies and mechanics of foraging and present the basic "average-rate maximizing" models and their extensions. The work discusses new directions in foraging research: incorporating incomplete information and risk-sensitive behavior in foraging models; analyzing trade-offs, such as nutrient requirements and the threat of being eaten while foraging; formulating dynamic models; and building constrained optimization models that assume that foragers can use only simple "rules of thumb." As an analysis of these and earlier research developments and as a contribution to debates about the role of theory in evolutionary biology. Foraging Theory will appeal to a wide range of readers, from students to research professionals, in behavioral ecology, population and community ecology, animal behavior, and animal psychology, and especially to those planning empirical tests of foraging models.

Distribution Ecology John Wiley & Sons

What is ecology?; Introduction to the science of ecology; The problem of distribution: populations; Methods for analyzing distributions; Factors limiting distributions: dispersal; Factors limiting distributions: behavior, interrelations with other organisms, temperature, moisture, other physical and chemical; The problem of abundance: populations; Population parameters; Demographic techniques; Population growth; Species interactions: competition, predation, herbivory; Natural regulation of population size; Some examples of population studies; Some examples of population studies; Applied problems: 1. the optimum-yield problem, 2. biological control; Distribution and abundance at the community level; Community parameters; The nature of the community; Community structure; Community change; Species diversity; Community organization; Community metabolism: 1. primary production, 2. secondary production; Nutrient cycles.

Ecology University of Chicago Press

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.

Ecological Methodology Columbia University Press

This best-selling majors ecology book continues to present ecology as a series of problems for readers to critically analyze. No other text presents analytical, quantitative, and statistical ecological information in an equally accessible style. Reflecting the way ecologists actually practice, the book emphasizes the role of experiments in testing ecological ideas and discusses many contemporary and controversial problems related to distribution and abundance. Throughout the book, Krebs thoroughly explains the application of mathematical concepts in ecology while reinforcing these concepts with research references, examples, and interesting end-of-chapter review questions. Thoroughly updated with new examples and references, the book now features a new full-color design and is accompanied by an art CD-ROM for instructors. The field package also includes *The Ecology Action Guide*, a guide that encourages readers to be environmentally responsible citizens, and a subscription to *The Ecology Place* (www.ecologyplace.com), a web site and CD-ROM that enables users to become virtual field ecologists by performing experiments such as estimating the number of mice on an imaginary island or restoring prairie land in Iowa. For college instructors and students.

Population Ecology in Practice Benjamin-Cummings Publishing Company

This book provides an analysis of frequently used research techniques in animal ecology, identifying their limitations and misuses, as well as possible solutions to avoid such pitfalls. The contributors provide an overarching account of central theoretical and methodological controversies. The editors have forged comprehensive presentations of key topics in animal ecology, such as territory and home range estimates, habitation evaluation, population viability analysis, GIS mapping, and measuring the dynamics of societies.

Ecology World Scientific

Filled with many examples of topic issues and current events, this book develops a basic understanding of how the natural world works and of how humans interact with the planet's natural ecosystems. It covers the history of ecology and describes the general approaches of the scientific method, then takes a look at basic principles of population dynamics and applies them to everyday practical problems.

Ecology University of Chicago Press

This coherent text translates the methods of statisticians into "ecological English" so that students may readily apply these methods to the real world. *Ecological Methodology*, Second Edition provides a balance of material on animal and plant populations. It teaches students of ecology how to design the most efficient tests in order to obtain maximum precision with minimal work. The first part of the text focuses on biological and technical issues in statistical methodology. Students learn about advances that have been made in designing better sampling devices, along with the techniques and equipment used for sampling. The second part deals with creating solid statistical design, and presents all methods that are well-known to statisticians in a language and context that students will easily understand.

Why Ecology Matters Cambridge University Press

Revised and updated, containing over 5,000 entries, with over 1,100 more entries than in the previous edition, *Animal Behavior Desk Reference*, Second Edition: A Dictionary of Behavior, Ecology, and Evolution provides definitions for terms in animal behavior, biogeography, evolution, ecology, genetics, psychology, statistics, systematics, and other related sciences. Formatted like a standard dictionary, this reference presents definitions in a quick- and easy-to-use style. For each term, where applicable, you receive: Multiple definitions listed chronologically Term hierarchies summarized in tables Definition sources Directives that show where a concept is defined under a synonymous name, and concepts related to focal ones Non-technical and obsolete

definitions Pronunciations of selected terms Common-denominator entries Synonyms Classifications of organisms and descriptions of many taxa Organizations related to animal behavior, ecology, evolution, and related sciences Still the most complete work of its kind, *Animal Behavior Desk Reference*, Second Edition: A Dictionary of Behavior, Ecology, and Evolution will improve your scientific communication, particularly in the fields of animal behavior, evolution, ecology, and related branches of biology. If you are a teacher, student, writer, or active in science in any way, this book will prove to be one of your most valuable resources.

An Introduction to Behavioural Ecology Routledge

How did rodent outbreaks in Germany help to end World War I? What caused the destructive outbreak of rodents in Oregon and California in the late 1950s, the large population outbreak of lemmings in Scandinavia in 2010, and the great abundance of field mice in Scotland in the spring of 2011? Population fluctuations, or outbreaks, of rodents constitute one of the classic problems of animal ecology, and in *Population Fluctuations in Rodents*, Charles J. Krebs sifts through the last eighty years of research to draw out exactly what we know about rodent outbreaks and what should be the agenda for future research. Krebs has synthesized the research in this area, focusing mainly on the voles and lemmings of the Northern Hemisphere—his primary area of expertise—but also referring to the literature on rats and mice. He covers the patterns of changes in reproduction and mortality and the mechanisms that cause these changes—including predation, disease, food shortage, and social behavior—and discusses how landscapes can affect population changes, methodically presenting the hypotheses related to each topic before determining whether or not the data supports them. He ends on an expansive note, by turning his gaze outward and discussing how the research on rodent populations can apply to other terrestrial mammals. Geared toward advanced undergraduate students, graduate students, and practicing ecologists interested in rodent population studies, this book will also appeal to researchers seeking to manage rodent populations and to understand outbreaks in both natural and urban settings—or, conversely, to protect endangered species.

Behavioural ecology; Krebs, John R., Davies, N.B. (Nicholas B.) Wiley-Blackwell

Integrates both the natural and social sciences in addressing the issues of fire management and policy.

Ecology Indo American Books

Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9780321688149. This item is printed on demand.

Ecology: The Experimental Analysis Of Distribution And Abundance HarperCollins Publishers

This is an updated version of the best selling first edition, *Ecological Census Techniques*, with updating, some new chapters and authors. Almost all ecological and conservation work involves carrying out a census or survey. This practically focussed book describes how to plan a census, the practical details and shows with worked examples how to analyse the results. The first three chapters describe planning, sampling and the basic theory necessary for carrying out a census. In the subsequent chapters international experts describe the appropriate methods for counting plants, insects, fish, amphibians, reptiles, mammals and birds. As many censuses also relate the results to environmental variability, there is a chapter explaining the main methods. Finally, there is a list of the most common mistakes encountered when carrying out a census.

Evolutionary Ecology and Human Behavior Princeton University Press

See publisher description:

North American Freshwater Mussels Princeton University Press
Foraging is fundamental to animal survival and reproduction, yet it is much more than a simple matter of finding food; it is a biological imperative. Animals must find and consume resources to succeed, and they make extraordinary efforts to do so. For instance, pythons rarely eat, but when they do, their meals are large—as much as 60 percent larger than their own bodies. The snake's digestive system is normally dormant, but during digestion metabolic rates can increase fortyfold. A python digesting quietly on the forest floor has the metabolic rate of thoroughbred in a dead heat. This and related foraging processes have broad applications in ecology, cognitive science,

anthropology, and conservation biology—and they can be further extrapolated in economics, neurobiology, and computer science. Foraging is the first comprehensive review of the topic in more than twenty years. A monumental undertaking, this volume brings together twenty-two experts from throughout the field to offer the latest on the mechanics of foraging, modern foraging theory, and foraging ecology. The fourteen essays cover all the relevant issues, including cognition, individual behavior, caching behavior, parental behavior, antipredator behavior, social behavior, population and community ecology, herbivory, and conservation. Considering a wide range of taxa, from birds to mammals to amphibians, *Foraging* will be the definitive guide to the field. *Ecological Census Techniques* Pearson Higher Ed
Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780321507433 .

Studyguide for Ecology John Wiley & Sons

The third edition of this successful textbook looks again at the influence of natural selection on behavior - an animal's struggle to survive by exploiting resources, avoiding predators, and maximizing reproductive success. In this edition, new examples are introduced throughout, many illustrated with full color photographs. In addition, important new topics are added including the latest techniques of comparative analysis, the theory and application of DNA fingerprinting techniques, extensive new discussion on brood parasite/host coevolution, the latest ideas on sexual selection in relation to disease resistance, and a new section on the intentionality of communication. Written in the lucid style for which these two authors are renowned, the text is enhanced by boxed sections illustrating important concepts and new marginal notes that guide the reader through the text. This book will be essential reading for students taking courses in

behavioral ecology. The leading introductory text from the two most prominent workers in the field. Second colour in the text. New section of four colour plates. Boxed sections to illustrate difficult and important points. New larger format with marginal notes to guide the reader through the text. Selected further reading at the end of each chapter.

Evolutionary Behavioral Ecology CSIRO PUBLISHING

This textbook helped to define the field of Behavioural Ecology. In this fourth edition the text has been completely revised, with new chapters and many new illustrations and full colour photographs. The theme, once again, is the influence of natural selection on behaviour - an animal's struggle to survive and reproduce by exploiting and competing for resources, avoiding predators, selecting mates and caring for offspring, - and how animal societies reflect both cooperation and conflict among individuals. Stuart A. West has joined as a co-author bringing his own perspectives and work on microbial systems into the book. Written in the same engaging and lucid style as the previous editions, the authors explain the latest theoretical ideas using examples from micro-organisms, invertebrates and vertebrates. There are boxed sections for some topics and marginal notes help guide the reader. The book is essential reading for students of behavioural ecology, animal behaviour and evolutionary biology. Key Features: Long-awaited new edition of a field-defining textbook New chapters, illustrations and colour photographs New co-author Focuses on the influence of natural selection on behavior, and how animal societies reflect both cooperation and conflict among individuals "The long-awaited update to a classic in this field is now here, presenting new directions in thinking and addressing burning questions. Richly informed by progress in many other disciplines, such as sensory physiology, genetics and evolutionary theory, it marks the emergence of behavioural ecology as a fully fledged discipline..... This is a marvellous book, written in a lucid style. A must-read for those in the field, it is also a cornucopia of new thinking for anyone interested in evolution

and behaviour." Manfred Milinski, *Nature*, 2012

An Introduction to Behavioural Ecology Addison-Wesley

First published in 1996, this book is a logical and consistent approach to experimental design using statistical principles. *Animal Behavior Desk Reference* Cambridge University Press Charles Krebs' best-selling majors-level text approaches ecology as a series of problems that are best understood by evaluating empirical evidence through data analysis and application of quantitative reasoning. No other text presents analytical, quantitative, and statistical ecological information in an equally accessible style for students. Reflecting the way ecologists actually practice, the new edition emphasises the role of experiments in testing ecological ideas and discusses many contemporary and controversial problems related to distribution and abundance. *Ecology: The Experimental Analysis of Distribution and Abundance*, 6th Edition builds on a clear writing style, historical perspective, and emphasis on data analysis with an updated, reorganised discussion of key topics and two new chapters on climate change and animal behavior. Key concepts and key terms are now included at the beginning of each chapter to help students focus on what is most important within each chapter, mathematical analyses are broken down step by step in a new feature called "Working with the Data," concepts are reinforced throughout the text with examples from the literature, and end-of-chapter questions and problems emphasise application. 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.