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KEY=ECOLOGY - NICHOLSON SCHWARTZ

LIKELIHOOD METHODS IN BIOLOGY AND ECOLOGY

A MODERN APPROACH TO STATISTICS

CRC Press **This book emphasizes the importance of the likelihood function in statistical theory and applications and discusses it in the context of biology and ecology. Bayesian and frequentist methods both use the likelihood function and provide differing but related insights. This is examined here both through review of basic methodology and also the integr**

A BIOLOGIST'S GUIDE TO MATHEMATICAL MODELING IN ECOLOGY AND EVOLUTION

Princeton University Press **Thirty years ago, biologists could get by with a rudimentary grasp of mathematics and modeling. Not so today. In seeking to answer fundamental questions about how biological systems function and change over time, the modern biologist is as likely to rely on sophisticated mathematical and computer-based models as traditional fieldwork. In this book, Sarah Otto and Troy Day provide biology students with the tools necessary to both interpret models and to build their own. The book starts at an elementary level of mathematical modeling, assuming that the reader has had high school mathematics and first-year calculus. Otto and Day then gradually build in depth and complexity, from classic models in ecology and evolution to more intricate class-structured and probabilistic models. The authors provide primers with instructive exercises to introduce readers to the more advanced subjects of linear algebra and probability theory. Through examples, they describe how models have been used to understand such topics as the spread of HIV, chaos, the age structure of a country, speciation, and extinction. Ecologists and evolutionary biologists today need enough mathematical training to be able to assess the power and limits of biological models and to develop theories and models themselves. This innovative book will be an indispensable guide to the world of mathematical models for the next generation of biologists. A how-to guide for developing new mathematical models in biology Provides step-by-step recipes for constructing and analyzing models Interesting biological applications Explores classical models in ecology and evolution Questions at the end of every chapter Primers cover important mathematical topics Exercises with answers Appendixes summarize useful rules Labs and advanced material available**

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MAPS AND ATLASES

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CONTEMPORARY AUTHORS

Contemporary Authors **Arranged alphabetically from Rowland Abbott to Pieter Zwart, each author biography includes personal information, addresses, career history, writings, work in progress, and more.**

GUIDE TO SOURCES FOR AGRICULTURAL AND BIOLOGICAL RESEARCH

This title is part of UC Press's Voices Revived program, which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice, reach, and impact. Drawing on a backlist dating to 1893, Voices Revived makes high-quality, peer-reviewed scholarship accessible once again using print-on-demand technology. This title was originally published in 1981.

THE BIOLOGY AND ECOLOGY OF TICKS SHAPE THE POTENTIAL FOR THE TRANSMISSION OF ZOONOTIC PATHOGENS.

Frontiers Media SA **Ticks are noticeable by the high diversity of pathogens they can transmit, most of them with implications in human and animal health. Ticks are arachnids, meaning that they do not share the biological and ecological features of the mosquitoes and other parasitic Diptera. The natural foci of tick-borne pathogens may be as large as a continent, or be restricted to small portions of a country, without apparently too many similar features. The life cycle of the ticks involved three developing instars. The precise relationships of ticks and their hosts, the specific seasonal pattern of activity of ticks, and the still poorly known molecular relationships between ticks and the pathogens they can transmit, make these vectors a specially fecund field of research. Importantly, extensive studies on the biological and ecological relationships of ticks and abiotic (climate and vegetation) conditions have revealed the fine-tuning of the ticks and the pathogens they transmit, together with the biological effects of host and the driving features by the climate. The studies on tick-transmitted pathogens have been on the rise in the last years. There is a growing interest in understand the somewhat complex relationships between the landscape, the climate, the vectors and the pathogens, because the concerns of spread, probably driven by subtle changes in climate and man made alterations of the landscape. Studies on Lyme borreliosis are addressing the interesting issue of the relationships between the climate, the tick activity patterns, and the selection of strains according to the reservoir availability. Furthermore, the expanding field of habitat suitability modeling has been applied with different degrees of success to evaluate and quantify the risk of disease transmission. In such exponentially growing field, revisionary books are clearly welcome additions to the bibliographical tools of researchers. It is however necessary the compilation of works devoted to explore the tip of the iceberg in the field of research. In this Research Topic, we wish to summarize and review the studies on ecology, molecular biology, and tick-host-pathogens interactions, provided to resolve the important issues of ticks and pathogens. We want not only the results obtained by newly developed molecular tools, but rigorous reviews of the most recent advances in these issues. This Topic will cover aspects of both human and animal health, with special interest on zoonoses. Aspects of the biology of the ticks, as affecting the transmission of pathogens, are of special interest in this Topic. Studies on ticks of the poorly known family Argasidae, as related to their involvement on pathogen transmission, are especially welcome. We also wish to describe the perspective of the field in the future. Finally, the presentation of ongoing original works is greatly encouraged.**

ELEMENTS OF MATHEMATICAL 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 thoughout the text that aid**

understanding, and supplementary mathematical and historical material that enrich the main text.

BULLETIN OF THE ATOMIC SCIENTISTS

The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

CONCEPTS IN BIOLOGY

WCB/McGraw-Hill

MATHEMATICS IN POPULATION BIOLOGY

Princeton University Press

THE SOFTWARE ENCYCLOPEDIA

MODERN BIOLOGY, 1991

BOOKS IN PRINT

THE CUMULATIVE BOOK INDEX

BIOLOGY

THE TRUTH OF ECOLOGY

NATURE, CULTURE, AND LITERATURE IN AMERICA

Oxford University Press on Demand A wide-ranging appraisal of environmental thought. It explores such topics as the history of ecology, radical science studies and ecology, the need for greater theoretical sophistication in ecocriticism, the dubious legacy of Thoreau, and the contradictions of contemporary nature writing.

WEED ECOLOGY

IMPLICATIONS FOR MANAGEMENT

John Wiley & Sons Weeds are successful plants, but on their own terms. Looking at weeds from an ecological viewpoint, emphasising the way in which one species interacts with others, the authors show that weeds are questionable mainly in that they are out-of-place.

CONSERVATION BIOLOGY FOR ALL

Oxford University Press Conservation Biology for All provides cutting-edge but basic conservation science to a global readership. A series of authoritative chapters have been written by the top names in conservation biology with the principal aim of disseminating cutting-edge conservation knowledge as widely as possible. Important topics such as balancing conversion and human needs, climate change, conservation planning, designing and analyzing conservation research, ecosystem services, endangered species management, extinctions, fire, habitat loss, and invasive species are covered. Numerous textboxes describing additional relevant material or case studies are also included. The global biodiversity crisis is now unstoppable; what can be saved in the developing world will require an educated constituency in both the developing and developed world. Habitat loss is particularly acute in developing countries, which is of special concern because it tends to be these locations where the greatest species diversity and richest centres of endemism are to be found. Sadly, developing world conservation scientists have found it difficult to access an authoritative textbook, which is particularly ironic since it is these countries where the potential benefits of knowledge application are greatest. There is now an urgent need to educate the next generation of scientists in developing countries, so that they are in a better position to protect their natural resources.

MODERN BIOLOGY

BIOLOGICAL SCIENCE

A HUMAN APPROACH

CHILDREN'S BOOKS IN PRINT

R. R. Bowker

EVOLUTIONARY CONSERVATION BIOLOGY

Cambridge University Press As anthropogenic environmental changes spread and intensify across the planet, conservation biologists have to analyze dynamics at large spatial and temporal scales. Ecological and evolutionary processes are then closely intertwined. In particular, evolutionary responses to anthropogenic environmental change can be so fast and pronounced that conservation biology can no longer afford to ignore them. To tackle this challenge, areas of conservation biology that are disparate ought to be integrated into a unified framework. Bringing together conservation genetics, demography, and ecology, this book introduces evolutionary conservation biology as an integrative approach to managing species in conjunction with ecological interactions and evolutionary processes. Which characteristics of species and which features of environmental change foster or hinder evolutionary responses in ecological systems? How do such responses affect population viability, community dynamics, and ecosystem functioning? Under which conditions will evolutionary responses ameliorate, rather than worsen, the impact of environmental change?

RECORDING FOR THE BLIND & DYSLEXIC, ... CATALOG OF BOOKS

ADULT COLLECTION

ECOLOGICAL PRINCIPLES AND ENVIRONMENTAL ISSUES

Pearson Education **Ecological Principles and Environmental Issues provides an introduction to core ecology through key environmental issues such as biodiversity, sustainable agriculture, global warming and pollution. Taking a distinctive approach, Peter Jarvis starts each chapter with a case study and uses this as a springboard to present core theory, while taking care to introduce ecological principles in a logical sequence throughout the book. This book is aimed at first year students taking Ecology or Biogeography as part of Biology, Environmental Science and Geography degrees. It will also be useful for M.Sc. courses in Environmental Science and Environmental Management, for those without a background in Ecology.**

ECOLOGY

THE SCHOOL SCIENCE REVIEW

ECOLOGY AND EDUCATION [MICROFORM] : ALTERNATIVE PROSPECTIVE FRAMEWORK FOR ECOLOGY EDUCATION

National Library of Canada = Bibliothèque nationale du Canada

EL-HI TEXTBOOKS IN PRINT

AMERICAN SCIENTIST

CONCEPTS OF BIOLOGY

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand.We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

BOOKS AND PAMPHLETS, INCLUDING SERIALS AND CONTRIBUTIONS TO PERIODICALS

THE AMERICAN BIOLOGY TEACHER

Includes section "Books."

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AN INTRODUCTION TO CULTURAL ECOLOGY

Routledge **This contemporary introduction to the principles and research base of cultural ecology is the ideal textbook for advanced undergraduate and beginning graduate courses that deal with the intersection of humans and the environment in traditional societies. After introducing the basic principles of cultural anthropology, environmental studies, and human biological adaptations to the environment, the book provides a thorough discussion of the history of, and theoretical basis behind, cultural ecology. The bulk of the book outlines the broad economic strategies used by traditional cultures: hunting/gathering, horticulture, pastoralism, and agriculture. Fully explicated with cases, illustrations, and charts on topics as diverse as salmon ceremonies among Northwest Indians, contemporary Maya agriculture, and the sacred groves in southern China, this book gives a global view of these strategies. An important emphasis in this text is on the nature of contemporary ecological issues, how peoples worldwide adapt to them, and what the Western world can learn from their experiences. A perfect text for courses in anthropology, environmental studies, and sociology.**

LAW, ECOLOGY, AND THE MANAGEMENT OF COMPLEX SYSTEMS

THE CASE OF WATER GOVERNANCE

Taylor & Francis **This book addresses the role of law in the adaptive management of socioecological systems. Recent years have witnessed a rise in discussion over the relation between adaptivity and law; as if after decades of insouciance, legal scholars have finally started to understand the impacts of the scientific paradigm called adaptive management to the legal sphere. Even though the complicated relations between law and the adaptive management of socioecological systems have become more debated, a thorough examination of the scientific and theoretical fundamentals of such endeavours has yet to be presented. Using the illustrative example of European Union water governance and its path towards embracing adaptive management, this book emphasises the legal significance of properly understanding the manner in which scientific knowledge of the environment is produced. Though always pivotal, rigorously apprehending science is especially crucial when dealing with the management of complex ecosystems as the 'normative' is created gradually before law begins to examine the 'facts' of the matter. After examining the roots of adaptive management, this book argues that the legal needs to understand itself as an integral part of the process of the socioecological management of complex systems, and not merely an external umpire resolving disputes. As whole the book offers new insights into the Union regulator's approaches to scientific realities, making it an interesting read not only to academics and legal scholars but also to regulators striving to deepen their understanding or pondering which approach to adopt in the face of new regulatory challenges, and to scientists interested in the science and law aspects of their work.**

NATURAL SCIENCE IN SCHOOLS

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ECOLOGICAL MODELS AND DATA IN R

Princeton University Press **Introduction and background; Exploratory data analysis and graphics; Deterministic functions for ecological modeling; Probability and stochastic distributions for ecological modeling; Stochatsic simulation and power analysis; Likelihood and all that; Optimization and all that; Likelihood examples; Standar statistics revisited; Modeling variance; Dynamic models.**