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Union Power and New York Miller & Levine Biology Introduction to the Biology of Marine Life

The 15 essays in this volume by the distinguished philosopher of science Peter Achinstein address three fundamental questions: What is required for a fact to be evidence for a scientific hypothesis? What is involved in giving a scientific explanation of a phenomenon? And should scientific theories be construed as aiming to correctly describe the entire world or only the observable parts of it?

[River Futures](#) John Wiley & Sons

Population ecologists study how births and deaths affect the dynamics of populations and communities, while ecosystem ecologists study how species control the flux of energy and materials through food webs and ecosystems. Although all these processes occur simultaneously in nature, the mathematical frameworks bridging the two disciplines have developed independently. Consequently, this independent development of theory has impeded the cross-fertilization of population and ecosystem ecology. Using recent developments from dynamical systems theory, this advanced undergraduate/graduate level textbook shows how to bridge the two disciplines seamlessly. The book shows how bifurcations between the solutions of models can help understand regime shifts in natural populations and ecosystems once thresholds in rates of births, deaths, consumption, competition, nutrient inputs, and decay are crossed. Mathematical Ecology is essential reading for students of ecology who have had a first course in calculus and linear algebra or students in mathematics wishing to learn how dynamical systems theory can be applied to ecological problems.

[Phytoremediation](#) Cambridge University Press

This textbook examines selected groups of marine organisms within a framework of basic biological principles and processes. With attention to taxonomic, evolutionary, ecological, behavioral, and physiological aspects of biological study, the book contains chapters on habitat, patterns of association, phytoplankton, marine plants, protozoans and inv

The Evolutionary Biology of Hearing U.S. Government Printing Office

In-depth study of internet-enhanced healthcare services Complete and thorough survey of the most promising e-health technologies Presents numerous real world examples Emphasis on international health-informatics topics, such as better access of states / countries to modern e-health technologies developed by leading centers

Ecology of High Altitude Waters Benjamin Cummings

Miller & Levine Biology Introduction to the Biology of Marine Life Jones & Bartlett Learning

[Mathematical Ecology of Populations and Ecosystems](#) Greenwood

This is the first interdisciplinary book on the mobilization of nutrients and pollutants in the water phase due to hydrodynamic processes. Coverage includes the formation of aggregates in turbulent water; flocks and biofilms from organic reactions; and the formation of new surfaces for re-adsorption of dissolved pollutants. The book gathers papers resulting from an International Symposium on Sediment Dynamics and Pollutant Mobility in River Basins in Hamburg, Germany, March, 2006.

[Molecular Imaging](#) Inner Traditions / Bear & Co

Design and development research, which has considerable implications for instructional design, focuses on designing and exploring products, artifacts and models, as well as programs, activity, and curricula. Instructional Technology Research, Design and Development: Lessons from the Field is a practical text on design and development research in the field of instructional technology. This book gives readers an overview of design and development research and how it is conducted in different contexts and for various purposes. Further, this reference source provides readers with practical knowledge on design and development research gained through investigation of lessons learned in the field.

Problems of Birth Defects Academic Press

Originally published in 1984, this work is organized in three parts. Each part consists of several related chapters. Each chapter explores the assumptions and implications of a closely related group of concepts in depth. Part 1 explores what a structure is. It considers such notions as content, context, constraint, unity, integrity, and the hierarchical and nucleate forms of organization. Part 2 critically explores the dynamic (energetic) conceptualization of psychological and social phenomena. Thus, this part considers such notions as energy, entropy, activity, confirmation, discrepancy, and resistance, as they apply to and affect the stability, activity, and changes observed in psychological and social structures. The relationship among the biological (metabolic), psychological, and social levels of analysis are explored from a rather simplified thermodynamic point of view. In Part 3 brings all these earlier considerations to bear upon the processes by which these structures grow and develop. It explores the concept of development itself, and such related issues as the levels-by-stages model of development, the distinction between intrastructural and intergenerational development, the orthogenic principles, the process of primordial differentiation and integration, development as a dialectical process, and the relationship between growth and development. The Epilogue indicates briefly some of the implications of the present thesis for future empirical and theoretical investigations.

[Instructional Technology Research, Design and Development: Lessons from the Field](#) Springer Science & Business Media

For courses in General, Organic, and Biological Chemistry Make connections between chemistry and future health-related careers General, Organic, and Biological Chemistry: Structures of Life engages students by helping them see the connections between chemistry, the world around them, and future health-related careers. Known for its friendly writing style, student focus, robust problem-solving pedagogy, and engaging health-related applications, the text prepares students for their careers. The text breaks chemical concepts and problem solving into clear, manageable pieces to ensure students stay on track and motivated throughout their first, and often only, chemistry course. With the newly revised 6th Edition, best-selling author Karen Timberlake and new contributing author MaryKay Orgill connect chemistry to real-world and career applications. Their goal is to help students become critical thinkers by understanding scientific concepts that will form a basis for making important decisions about issues concerning health and the environment and their intended careers. The new edition introduces more problem-solving strategies, more problem-solving guides, new Analyze the Problem with Connect features, new Try It First and Engage features, conceptual and challenge problems, and new sets of combined problems--all to help students develop the problem-solving skills they'll need beyond the classroom. Also available with Mastering Chemistry or as an easy-to-use, standalone Pearson eText Mastering(tm) is the teaching and learning platform that empowers you to reach every student. By combining trusted author content with digital tools developed to engage students and emulate the office-hour experience, Mastering personalizes learning and often improves results for each student. Students can further master concepts after class through traditional and adaptive homework assignments that provide hints and answer-specific feedback. Pearson eText allows educators to easily share their own notes with students so they see the connection between their reading and what they learn in class--motivating them to keep reading, and keep learning. Portable access lets students study on the go, even offline. And, reading analytics offer insight into how students use the eText, helping educators tailor their instruction. Note: You are purchasing a standalone product; Mastering Chemistry and Pearson eText do not come packaged with this content. Students, if interested in purchasing this title with Mastering Chemistry or Pearson eText, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and Mastering Chemistry, search for: 0134804678 / 9780134804675 General, Organic, and Biological Chemistry: Structures of Life Plus Mastering Chemistry with Pearson eText -- Access Card Package Package consists of: 0134730682 / 9780134730684 General, Organic, and Biological Chemistry: Structures of Life 0134747151 / 9780134747156 Mastering Chemistry with Pearson eText -- ValuePack Access Card -- for General, Organic, and Biological Chemistry: Structures of Life If you would like to purchase the standalone Pearson eText, search for: 0135214130 / 9780135214138 Pearson eText General, Organic, and Biological Chemistry: Structures of Life -- Access Card OR 0135214122 / 9780135214121 Pearson eText General, Organic, and Biological Chemistry: Structures of Life -- Instant Access

Circular Springer Science & Business Media

Salvage logging—removing trees from a forested area in the wake of a catastrophic event such as a wildfire or hurricane—is highly controversial. Policymakers and those with an economic interest in harvesting trees typically argue that damaged areas should be logged so as to avoid “wasting” resources, while many forest ecologists contend that removing trees following a disturbance is harmful to a variety of forest species and can interfere with the natural process of ecosystem recovery. *Salvage Logging and Its Ecological Consequences* brings together three leading experts on forest ecology to explore a wide range of issues surrounding the practice of salvage logging. They gather and synthesize the latest research and information about its economic and ecological costs and benefits, and consider the impacts of salvage logging on ecosystem processes and biodiversity. The book examines • what salvage logging is and why it is controversial • natural and human disturbance regimes in forested ecosystems • differences between salvage harvesting and traditional timber harvesting • scientifically documented ecological impacts of salvage operations • the importance of land management objectives in determining appropriate post-disturbance interventions Brief case studies from around the world highlight a variety of projects, including operations that have followed wildfires, storms, volcanic eruptions, and insect infestations. In the final chapter, the authors discuss policy management implications and offer prescriptions for mitigating the impacts of future salvage harvesting efforts. *Salvage Logging and Its Ecological Consequences* is a “must-read” volume for policymakers, students, academics, practitioners, and professionals involved in all aspects of forest management, natural resource planning, and forest conservation.

[Nonlinear Diffusion Problems](#) Oxford University Press

Paul LaViolette reveals astonishing parallels between cutting edge scientific thought and early creation myths, and how these myths encode a theory of cosmology in which matter is continually growing from seeds of order that emerge spontaneously from chaos. Exposing the contradictions of the Big Bang theory, LaViolette leads us beyond the restrictive metaphors of modern science and into a new science for the 21st century.

[Salvage Logging and Its Ecological Consequences](#) Springer Science & Business Media

This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

[Introduction to the Biology of Marine Life](#) Academic Press

Across much of the industrialized world, rivers that were physically transformed and ecologically ruined to facilitate industrial and agricultural development are now the focus of restoration and rehabilitation efforts. *River Futures* discusses the emergence of this new era of river repair and documents a comprehensive biophysical framework for river science and management. The book considers what can be done to maximize prospects for improving river health while maintaining or enhancing the provision of ecosystem services over the next fifty to one-hundred years. It provides a holistic overview of considerations that underpin the use of science in river management, emphasizing cross-disciplinary understanding that builds on a landscape template. The book frames the development of integrative river science and its application to river rehabilitation programs develops a coherent set of guiding principles with which to approach integrative river science considers the application of cross-disciplinary thinking in river rehabilitation experiences from around the world examines the crossover between science and management, outlining issues that must be addressed to promote healthier river futures Case studies explore practical applications in different parts of the world, highlighting approaches to the use of integrative river science, measures of success, and steps that could be taken to improve performance in future efforts. *River Futures* offers a positive, practical, and constructive focus that directly addresses the major challenge of a new era of river conservation and rehabilitation—that of bringing together the diverse and typically discipline-bound sets of knowledge and practices that are involved in repairing rivers. It is a valuable resource for anyone involved in river restoration and management, including restorationists, scientists, managers,

and policymakers, as well as undergraduate and graduate students.

Advances in the Study of Behavior Oxford University Press

Exploring Mathematical Modeling in Biology through Case Studies and Experimental Activities provides supporting materials for courses taken by students majoring in mathematics, computer science or in the life sciences. The book's cases and lab exercises focus on hypothesis testing and model development in the context of real data. The supporting mathematical, coding and biological background permit readers to explore a problem, understand assumptions, and the meaning of their results. The experiential components provide hands-on learning both in the lab and on the computer. As a beginning text in modeling, readers will learn to value the approach and apply competencies in other settings. Included case studies focus on building a model to solve a particular biological problem from concept and translation into a mathematical form, to validating the parameters, testing the quality of the model and finally interpreting the outcome in biological terms. The book also shows how particular mathematical approaches are adapted to a variety of problems at multiple biological scales. Finally, the labs bring the biological problems and the practical issues of collecting data to actually test the model and/or adapting the mathematics to the data that can be collected. Presents a single volume on mathematics and biological examples, with data and wet lab experiences suitable for non-experts Contains three real-world biological case studies and one wet lab for application of the mathematical models Includes R code templates throughout the text, which are also available through an online repository, along with the necessary data files to complete all projects and labs

Methods in Stream Ecology New Leaf Publishing Group

The ocean as a habitat, the changing marine environment, the world ocean, classification of the marine environment. Patterns of association. Microbial heterotrophs and invertebrates. Marine vertebrates, fishes and reptiles. the deep sea floor.

Information Technology Solutions for Healthcare Prentice Hall

One program that ensures success for all students

Exploring Mathematical Modeling in Biology Through Case Studies and Experimental Activities Elsevier Health Sciences

"Molecular Imaging: Fundamentals and Applications" is a comprehensive monograph which describes not only the theory of the underlying algorithms and key technologies but also introduces a prototype system and its applications, bringing together theory, technology and applications. By explaining the basic concepts and principles of molecular imaging, imaging techniques, as well as research and applications in detail, the book provides both detailed theoretical background information and technical methods for researchers working in medical imaging and the life sciences. Clinical doctors and graduate students will also benefit from this book. Jie Tian is a professor at the Institute of Automation, Chinese Academy of Sciences, China.

Sediment Dynamics and Pollutant Mobility in Rivers Oxford University Press

Advances in the Study of Behavior was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior. That number is still expanding. This volume makes another important "contribution to the development of the field" by presenting theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields. Initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior Makes another important contribution to the development of the field Presents theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields

General, Organic, and Biological Chemistry Jones & Bartlett Publishers

This handbook presents the state of the art of quantitative methods and models to understand and assess the science and technology system. Focusing on various aspects of the development and application of indicators derived from data on scholarly publications, patents and electronic communications, the individual chapters, written by leading experts, discuss theoretical and methodological issues, illustrate applications, highlight their policy context and relevance, and point to future research directions. A substantial portion of the book is dedicated to detailed descriptions and analyses of data sources, presenting both traditional and advanced approaches. It addresses the main bibliographic metrics and indexes, such as the journal impact factor and the h-index, as well as altmetric and webometric indicators and science mapping techniques on different levels of aggregation and in the context of their value for the assessment of research performance as well as their impact on research policy and society. It also presents and critically discusses various national research evaluation systems. Complementing the sections reflecting on the science system, the technology section includes multiple chapters that explain different aspects of patent statistics, patent classification and database search methods to retrieve patent-related information. In addition, it examines the relevance of trademarks and standards as additional technological indicators. The Springer Handbook of Science and Technology Indicators is an invaluable resource for practitioners, scientists and policy makers wanting a systematic and thorough analysis of the potential and limitations of the various approaches to assess research and research performance.

Springer Handbook of Science and Technology Indicators Jones & Bartlett Learning

Methods in Stream Ecology, Second Edition, provides a complete series of field and laboratory protocols in stream ecology that are ideal for teaching or conducting research. This updated edition reflects recent advances in the technology associated with ecological assessment of streams, including remote sensing. In addition, the relationship between stream flow and alluviation has been added, and a new chapter on riparian zones is also included. The book features exercises in each chapter; detailed instructions, illustrations, formulae, and data sheets for in-field research for students; and taxonomic keys to common stream invertebrates and algae. With a student-friendly price, this book is key for all students and researchers in stream and freshwater ecology, freshwater biology, marine ecology, and river ecology. This text is also supportive as a supplementary text for courses in watershed ecology/science, hydrology, fluvial geomorphology, and landscape ecology. Exercises in each chapter Detailed instructions, illustrations, formulae, and data sheets for in-field research for students Taxonomic keys to common stream invertebrates and algae Link from Chapter 22: FISH COMMUNITY COMPOSITION to an interactive program for assessing and modeling fish numbers