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Biological Sequence Analysis  
National Academies Press

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*Asimov's  
Biographical  
Encyclopedia of  
Science and  
Technology* Benjamin  
Cummings  
This volume offers  
a comprehensive  
history of the  
Mount Desert Island  
Biological

Laboratory (MDIBL), one of the major marine laboratories in the United States and a leader in using marine organisms to study fundamental physiological concepts. Beginning with its founding as the Harpswell Laboratory of Tufts University in 1898, David H. Evans follows its evolution from a teaching facility to a research center for distinguished renal and epithelial physiologists. He also describes how it became the site of major advances in cytokinesis, regeneration,

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cardiac and vascular physiology, hepatic physiology, endocrinology and toxicology, as well as studies of the comparative physiology of marine organisms. Fundamental physiological concepts in the context of the discoveries made at the MDIBL are explained and the social and administrative history of this renowned facility is described.

**Concurrent Aerobic and Strength Training**

Benjamin-Cummings  
Publishing Company  
The ideal text for biology students encountering

bioinformatics for the first time, Introduction to Bioinformatics describes how recent technological advances in the field can be used as a powerful set of tools for receiving and analyzing biological data.

**Damp Indoor Spaces and Health** Elsevier

Systematics: A Course of Lectures is designed for use in an advanced undergraduate or introductory graduate level course in systematics and is meant to present core systematic concepts and literature. The book covers topics such as the history of systematic thinking and fundamental concepts in the field including species concepts, homology, and hypothesis testing.

Analytical methods are covered in detail with chapters devoted to sequence alignment, optimality criteria, and methods such as distance, parsimony, maximum likelihood and

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Bayesian approaches. Trees and tree searching, consensus and super-tree methods, support measures, and other relevant topics are each covered in their own sections. The work is not a bleeding-edge statement or in-depth review of the entirety of systematics, but covers the basics as broadly as could be handled in a one semester course. Most chapters are designed to be a single 1.5 hour class, with those on parsimony, likelihood, posterior probability, and tree searching two classes (2 x 1.5 hours).

### **A Century of Innovation**

CRC Press

Connect with biology. Life Matters explores the biology that affects all of us every day. The text presents fundamental biological concepts with a unique conceptual, hands-on approach. By investigating the importance of biology and its relation to other

academic disciplines beyond the basic scientific facts, students will better navigate difficult decisions involving health, the environment, business, and society. The text explores the subject from a global perspective, highlighting engaging Canadian examples wherever relevant. Using an approach that helps students relate biology to their own fields of study and to their lives, Life Matters will engage students in the diverse field of biology.

### The Obstructed Path

John Wiley & Sons

Advances in computer science and technology and in biology over the last several years have opened up the possibility for computing to help answer fundamental questions in biology and for biology to help with new approaches to

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computing. Making the most of the research opportunities at the interface of computing and biology requires the active participation of people from both fields. While past attempts have been made in this direction, circumstances today appear to be much more favorable for progress. To help take advantage of these opportunities, this study was requested of the NRC by the National Science Foundation, the Department of Defense, the National Institutes of Health, and the Department of Energy. The report provides the basis for establishing cross-disciplinary collaboration between biology and computing including an analysis of

potential impediments and strategies for overcoming them. The report also presents a wealth of examples that should encourage students in the biological sciences to look for ways to enable them to be more effective users of computing in their studies.

Biology 3m Company Building on the success of the previous editions, Textbook of Drug Design and Discovery has been thoroughly revised and updated to provide a complete source of information on all facets of drug design and discovery for students of chemistry, pharmacy, pharmacology, biochemistry, and medicine. The book follows drug design from the initial lead identification through

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optimization and structure-activity relationship with reference to the final processes of clinical evaluation and registration. Chapters investigate the design of enzyme inhibitors and drugs for particular cellular targets such as ion channels and receptors, and also explore specific classes of drug such as peptidomimetics, antivirals and anticancer agents. The use of gene technology in pharmaceutical research, computer modeling techniques, and combinatorial approaches are also included.

*A Guide to the Natural World Technology Update*  
A Guide to the Natural World, Technology Update

Each entry gives short to lengthy biographical information. Subject and name index.

*Biology* Springer Science & Business Media

Enger/Ross/Bailey: Concepts in Biology is a relatively brief introductory general biology text written for students with no previous science background. The authors strive to use the most accessible vocabulary and writing style possible while still maintaining scientific accuracy. The text covers all the main areas of study in biology from cells through ecosystems. Evolution and ecology coverage are combined in Part Four to emphasize the relationship between these two main subject areas. The new, 14th edition is the latest and most exciting revision of a respected introductory biology text written by authors who know how to reach students through engaging writing, interesting issues and



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applications, and accessible level. Instructors will appreciate the book's scientific accuracy, complete coverage and extensive supplement package.

Pearson Higher Ed

Explore ecology in this accessible introduction to how the natural world works and how we have started to understand the environment, ecosystems, and climate change. Using a bold, graphic-led approach, *The Ecology Book* explores and explains more than 85 of the key ideas, movements, and acts that have defined ecology and ecological thought. The book has a simple chronological structure, with early chapters ranging from the ideas of classical thinkers to attempts by Enlightenment thinkers to systematically order the natural world. Later chapters trace the evolution of modern thinking, from the ideas of Thomas Malthus, Henry Thoreau, and others, right up to the political and scientific developments of the modern

era, including the birth of the environmental movement and the Paris Agreement. The ideal introduction to one of the most important subjects of our time.

## **Color Atlas of Oral**

**Diseases** Springer

Now in its Fifth Edition, *Functional Anatomy and Physiology of Domestic Animals* provides a basic understanding of domestic animal anatomy and physiology, taking an interconnected approach to structure and function of the horse, dog, cat, cow, sheep, goat, pig, and chicken. Offers a readable introduction to basic knowledge in domestic animal anatomy and physiology Covers equine, canine, feline, bovine, ovine, ruminant, swine, and poultry anatomy and physiology Considers structure and function in relation to each other for a

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full understanding of the relationship between the two Provides pedagogical tools to promote learning, including chapter outlines, study questions, self-evaluation exercises, clinical correlates, key terms, suggested readings, and a robust art program Includes access to a companion website with video clips, review questions, and the figures from the book in PowerPoint

*Functional Anatomy and Physiology of Domestic Animals* Lippincott Williams & Wilkins

Almost all homes, apartments, and commercial buildings will experience leaks, flooding, or other forms of excessive indoor dampness at some point. Not only is excessive dampness a health problem by itself, it also contributes to several other potentially problematic types of

situations. Molds and other microbial agents favor damp indoor environments, and excess moisture may initiate the release of chemical emissions from damaged building materials and furnishings. This new book from the Institute of Medicine examines the health impact of exposures resulting from damp indoor environments and offers recommendations for public health interventions. *Damp Indoor Spaces and Health* covers a broad range of topics. The book not only examines the relationship between damp or moldy indoor environments and adverse health outcomes but also discusses how and where buildings get wet, how dampness influences microbial growth and chemical emissions, ways to prevent and remediate dampness, and elements of a public health response to

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the issues. A comprehensive book is lavishly illustrated with full-color graphics and photos and includes literature review finds sufficient evidence of an association between damp indoor environments and some upper respiratory tract symptoms, coughing, wheezing, and asthma symptoms in sensitized persons. This important book will be of interest to a wide-ranging audience of science, health, engineering, and building professionals, government officials, and members of the public.

*Exploring the Diversity of Life* Thieme

Fully revised and updated, this Third Edition provides excellent coverage of the fundamentals of exercise physiology, integrating scientific and clinical information on nutrition, energy transfer, and exercise training. The

with full-color graphics and photos and includes real-life cases, laboratory-type activities, and practical problem-solving questions. This edition has an Integrated Workbook in the margins that reinforces concepts, presents activities to test knowledge, and aids students in taking notes. An accompanying CD-ROM contains multiple-choice and true/false questions to help students prepare for exams. LiveAdvise online faculty support and student tutoring services are available free with the text.

A Guide to the Natural World  
Cambridge University Press  
Transforming the Global Biosphere is based on the author's presentations to the World Future Society, and

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was written at the suggestion of Nobel Peace Prize Nominee and former UN Assistant Secretary General, Dr. Robert Muller. The author feels strongly that, in order to reverse the presently destructive impacts of Human Technology on the Global Biosphere, a Transformative Revolution in Human Consciousness must first take place. Such a "Magnificent Revolution" would take the form of Twelve Futuristic MetaStrategies...each of which would represent a Key SocioEcological Paradigm in itself. Each chapter of the book is developed around a MetaStrategy, providing examples of the Major Problems, as well as Innovative Solutions for reversing these Destructive Trends...through selected applications of Unique Alternative Technologies and Strategies. Dr. Maynard's Twelve MetaStrategies for Planetary Management are essentially a set of enlightened, yet effective, tools for Creative Thinking and Action. They are designed to promote environmentally sustainable future scenarios for the maximum benefit for Humans, their Planetary Homeworld, and for the Generations Yet to Come. In spite of the mounting evidence of environmental damage and disturbance to our Natural Planetary Systems, Dr. Maynard contends that solutions to these problems are available through insightful applications of Alternative Technologies, which can provide Clean Renewable Energy, Efficient Non-Polluting Transportation, Hi-Energy Nutrition, and Ecologically Appropriate Lifestyles for everyone on Earth. To achieve such a meaningful and lasting transformation, the author feels we must move rapidly and efficiently beyond the entanglements of 20th Century Thinking, and blaze adventurous new pathways into the Future. Together we must find the courage to explore the promising

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applications of alternative leading-edge Technologies, which often exist outside the boundaries of the Mainstream Scientific Thought. -- Elliott Maynard Blog.

French Social Thought in the Years of Desperation

1930-1960 Benjamin-Cummings Publishing Company

Biology: An Australian focus reflects on worldwide biological research and knowledge to provide a global outlook with Australian examples and cases woven throughout. Students are able to connect with what they're learning and better understand Australian flora/fauna and most importantly ecology & ecosystems, using this accessible and engaging learning resource. Available in a traditional textbook form or as a SmartBook®8482, this fifth edition combines authoritative, peer-reviewed content with superior educational technology. Including a Connect®174

package with interactive activities, animations, conceptual testbank and a full suite of instructor resources, and a newly developed, fully localised LearnSmart®174 for a truly adaptive and personalised learning experience. The rich pedagogical layout of this text adds to the accessibility of the Biology: An Australian focus learning package. As well as Concept Checks to provide students with the essential takeaway points for each section and help with exam revision, this edition also includes; Self-Assessment and Review and Analysis to test the students' understanding; Evaluation and Application to develop and test critical evaluation skills; and boxed case studies separated into Research, Application, Hot Topics and Focus features, to delve deeper into topics. Biology: An Australian focus offers a complete learning package for all Australian biology students.

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## **The Ecology Book IAP**

The Handbook on Teaching Social Issues, 2nd edition, provides teachers and teacher educators with a comprehensive guide to teaching social issues in the classroom. This second edition re-frames the teaching of social issues with a dedicated emphasis on issues of social justice. It raises the potential for a new and stronger focus on social issues instruction in schools. Contributors include many of the leading experts in the field of social studies education. Issues-centered social studies is an approach to teaching history, government, geography, economics and other subject related courses through a focus on persistent social issues. The emphasis is on problematic questions that need to be addressed and investigated in-depth to

increase social understanding, active participation, and social progress. Questions or issues may address problems of the past, present, or future, and involve disagreement over facts, definitions, values, and beliefs arising in the study of any of the social studies disciplines, or other aspects of human affairs. The authors and editor believe that this approach should be at the heart of social studies instruction in schools. **ENDORSEMENTS** "At a time when even the world's most stable democracies are backsliding towards autocratic rule, Ronald Evans has pulled together an essential guide for teachers who want to do something about it. The 2nd edition of the Handbook on Teaching Social Issues is a brilliant and timely collection that should be the constant

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companion for teachers across the disciplines." Joel Westheimer University Research Chair in Democracy and Education University of Ottawa "The Handbook on Teaching Social Issues (2nd edition) is a fantastic resource for teachers, teacher educators, and professional development specialists who are interested in ensuring that social issues are at the center of the curriculum. The chapters are focused on the most important contemporary thinking about what social issues are, why they are so important for young people to learn about, and what research indicates are the most effective pedagogical approaches. The wide-ranging theoretical and practical expertise of the editor and all of the chapter authors account for why this handbook makes such an

exceptional contribution to our understanding of how and why the social issues approach is so important and stimulating." Diana Hess Dean, UW-Madison School of Education Karen A. Falk Distinguished Chair of Education "Democracy, both as a form of governance and a reservoir of principles and practices, faces an existential threat. The Handbook on Teaching Social Issues is a perfectly-timed and wonderfully engaging exploration of what lies at the heart of social studies curriculum: social inquiry for democratic life. The authors provide conceptual frames, classroom strategies and deep insights about the complex and utterly crucial work of education for democratic citizenship. Education like that conceptualized and described in this volume is a

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curative so needed at this critical moment. Ron Evans and his colleagues have delivered, assembling an outstanding set of contributions to the field.

The Handbook underscores John Dewey's now-haunting invocation that democracy must be renewed with each generation and an education worthy of its name is the handmaiden of democratic rebirth." William Gaudelli Dean and Professor Lehigh University "This volume is so timely and relevant for democratic education. Instead of retreating to separate ideological corners, the authors in this handbook invite us to engage in deliberative discourse that requires civic reasoning and often requires us to meet in a place that serves us all."

Gloria Ladson-Billings, Professor Emerita Department of Curriculum &

Instruction University of Wisconsin President, National Academy of Education Fellow, AERA, AAAS, and Hagler Institute @ Texas A&M "At the heart of our divisive political and social climate is the need to understand and provide clarity over polarizing concepts. Historically, confusion and resistance has hindered the nation's growth as a democratic nation. Typically, the most vulnerable in our society has suffered the most from our unwillingness to reconceptualize society.

The Handbook on Teaching Social Issues, 2nd edition, is a good step in helping social studies educators, students, and laypersons realize a new society that focuses on equity. With over 30 chapters, Ronald Evans and his colleagues' centered inquiry, critical thinking, controversy, and action to



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challenge ideologies and connect social studies to student's lives and the real world. The first edition helped me as a young social studies teacher; I am excited to use the 2nd edition with my teacher education students!"

LaGarrett King Isabella Wade Lyda and Paul Lyda  
Professor of Education  
Founding Director, CARTER Center for K-12 Black history education University of Missouri "Ronald Evans has curated a collection of informative contributions that will serve as an indispensable resource for social studies educators committed to engaging their students in the thoughtful examination of social issues. The Handbook on Teaching Social Issues, 2nd edition, articulates the historical, definitional, and conceptual foundations of social issues education. It

offers clear presentations of general guidelines for unit planning, discussion methods, and assessment. It identifies specific teaching strategies, resources, and sample lessons for investigating a range of persistent and contemporary social issues on the elementary, middle, and secondary levels through the social studies disciplines. Updated with perspectives on education for social justice that have emerged since the first edition, this edition effectively situates social issues education in the contemporary sociopolitical milieu. The Handbook on Teaching Social Issues, is a timely, accessible, and practical guide to involving students in a vital facet of citizenship in a democracy."

William G. Wraga, Professor  
Dean's Office Mary Frances Early College of

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Education University of Georgia "The Handbook on Teaching Social Issues, 2nd edition is a long-awaited, welcome, and timely volume. It is apparent that the foundational tenets of the first edition have served social studies professionals well over the past 25 years, given the growth of social issues scholarship showcased in this new edition. Notable is the re-framing and presentation here of scholarship through a social justice lens. I appreciate the offering of unique tools on an array of specific, critical topics that fill gaps in our pedagogical content knowledge. This volume will sit right alongside my dog-eared 1996 edition and fortify many methods courses, theses, and dissertations to come. Sincere thanks to the editor and authors for what I am certain will be an enduring, catalyzing contribution." Nancy C. Patterson Professor of Education Social Studies Content Area Coordinator Bowling Green State University "The Handbook on Teaching Social Issues is a tool that every informed social studies educator should have in their instructional repertoire. Helping students understand how to investigate and take action against problems is essential to developing a better world. The articles in this handbook provide explanations and reasonings behind issues-centered education as well as strategies to employ at every age level of learning. I look forward to using this edition with the K-12 social studies teachers in my district in order to better prepare our students for future learning and living."

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Kelli Hutt, Social Studies Curriculum Facilitator Dallas Center-Grimes CSD Grimes, Iowa "Ron Evans has chosen an appropriate time to create a companion publication to the first Handbook on Teaching Social Issues published in 1996. During the last few years, social studies teachers have been confronted by student inquiries on a plethora of historical and contemporary issues that implores for the implementation of an interdisciplinary approach to the teaching of anthropology, economics, geography, government, history, sociology, and psychology in order for students to make sense of the world around them and develop their own voices. This demands a student centered focus in the classroom where problematic questions must be addressed and investigated in depth in order to increase social understanding and active participation toward social progress. This volume provides crucial upgrades to the original handbook including a greater emphasis on teaching issues in the elementary grades, the inclusion of issues pertaining to human rights, genocide and sustainability to be addressed in the secondary grades, and addressing issues related to disabilities." Mark Previte, Associate Professor of Secondary Education University of Pittsburgh-Johnstown Chair, NCSS Issues Centered Education Community

Biology: Pearson New International Edition  
Springer  
BiologyA Guide to the Natural World, Technology

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