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This book is a treatise on microbial ecology that covers traditional and cutting-edge issues in the ecology of microbes in the biosphere. It emphasizes on study tools, microbial taxonomy and the fundamentals of microbial activities and interactions within their communities and environment as well as on the related food web dynamics and biogeochemical cycling.

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The work exceeds the traditional domain of microbial ecology by revisiting the evolution of cellular prokaryotes and eukaryotes and stressing the general principles of ecology. The overview of the topics, authored by more than 80 specialists, is one of the broadest in the field of environmental microbiology. The overview of the topics, authored by more than 80 specialists, is one of the broadest in the field of environmental microbiology.

This acclaimed text has been fully revised

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and updated, now incorporating issues including aging of the reproductive system, and updates on the chapters on conception and Gamete Transport and Fertilization, and Pregnancy. Human Reproductive Biology, Third Edition emphasizes the biological and biomedical aspects of human reproduction, explains advances in reproductive science and discusses the choices and concerns of today. Generously illustrated in full color, the text provides current information about human reproductive

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anatomy and physiology. The ideal book for courses on human reproductive biology - includes chapter introductions, sidebars on related topics of interest, chapter summaries and suggestions for further reading. All material completely updated with the latest research results, methods, and topics now organized to facilitate logical presentation of topics New chapters on Reproductive Senescence, Conception: Gamete Transport, Fertilization, Pregnancy: Maternal Aspects and Pregnancy: Fetal Development Full

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color illustrations

One program that ensures success for all students

Comprehensive and engaging, Introduction to Forensic Anthropology uses thoughtful pedagogy to lead students step-by-step through the most current and detailed forensic anthropology material available today. The book offers coverage of all of the major topics in the field with accuracy, intensity, and clarity.

Extensive illustrations and photos ensure that the text is accessible for students.

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As one reviewer says, “there is no other source available that is so comprehensive in its coverage of the methods and issues in the current practice of forensic anthropology.”

Key Topics in Conservation Biology 2

A Computational Modeling Approach

California Edition

Biological Sampling in the Deep Sea

Biology

Marks' Basic Medical Biochemistry

This is the User's Manual to the software package EnvironmentalStats for S-PLUS, which is an add-on module for S-PLUS providing the first

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comprehensive software package for environmental scientists, engineers, and regulators. The new edition provides the documentation for Version 2.0 (which runs under S-PLUS 6.0), and includes extensive examples using real data sets.

In this story about the perils of popularity, the courage of nonconformity, and the thrill of first love, an eccentric student named Stargirl changes Mica High School forever.

Freshwater algae are among the most diverse and ubiquitous organisms on earth. They occupy an enormous range of ecological conditions from lakes and rivers to acidic peat swamps, inland saline lakes, snow and ice, damp soils, wetlands, desert soils, wastewater treatment plants, and are symbionts in and on many plants, fungi, and animals. In North America, the variety of freshwater habitats colonized by algae is very rich, and offers an enormous and fascinating range of environments for

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their study. They form the base of most aquatic food webs and are critical to studies of ecosystem health. Algal ecologists and taxonomists play an important role in the understanding of aquatic ecosystems: their biodiversity, productivity, interactions with other organisms, and water quality. This book provides in one volume a practical and comprehensive guide to the genera of freshwater algae known from North America. The format combines the necessary ecological, taxonomic and methodological information for all scientists working in aquatic environments, whether their specialty is in environmental monitoring and water quality assessment, biological composition, ecology, evolution, or molecular biology. Key Features * The first complete accounting of North America's freshwater algal genera in more than 50 years * Includes a guide to the current literature on species identification in each group of algae * High-quality

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photographs and drawings of more than 770 genera * A clear, easy-to-use introductory key to the diagnostic chapters * Synthetic chapters on freshwater habitats, use of algae in environmental assessment, and control of nuisance algae * Contributions from 27 experts in all areas of freshwater algae * Extensive literature citations * Companion volume of Ecology and Classification of North American Freshwater Invertebrates 2nd edition, edited by Throp and Covich

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

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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

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concepts.

A Path Forward

Biology and Economics for Biosecurity

Stargirl

Introduction to Forensic Anthropology, Pearson eText

15th International Conference, IPMI'97, Poultney, Vermont, USA,

June 9-13, 1997, Proceedings

Prentice Hall Exploring Life Science

Exotic pests and diseases have long been an important concern in agriculture. The problem is becoming increasingly urgent and complex because agricultural trade has been liberalized

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worldwide, and as a consequence, the probability of spreading a disease or a pest through national borders has become a real threat, not only for the agricultural industry but also for human health and the natural environment. This edited volume's list of international contributors reads like a Who's Who of international agricultural research! This book includes ten interdisciplinary case studies that focus on specific pests or

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diseases that represent a range of threats to U.S. agriculture, wild lands and the urban landscape, and possible government responses to these threats. Each chapter combines, in an original fashion, biological foundations and implications for the public, giving powerful insights to a series of public policy issues of national and international relevance. In many instances, economic analysis of alternative policies is included.

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Exotic pest control is discussed in a public good general framework, and under the international regulatory laws comprised by the Sanitary and Phytosanitary Protocol of the WTO. Biology for AP[®] courses covers the scope and sequence requirements of a typical two-semester Advanced Placement[®] biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens.

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Biology for AP[®] Courses was designed to meet and exceed the requirements of the College Board's AP[®] Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP[®] curriculum and includes rich features that engage students in scientific practice and AP[®] test preparation; it also highlights careers and research opportunities in biological sciences.

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MUSEUM MEDIA Edited by Michelle Henning
Museum Media explores the contemporary uses of diverse media in museum contexts and discusses how technology is reinventing the museum. It considers how technological changes—from photography and television through to digital mobile media—have given rise to new habits, forms of attention and behaviors. It explores how research methods can be used to understand people's relationships with media

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technologies and display techniques in museum contexts, as well as the new opportunities media offer for museums to engage with their visitors. Entries written by leading experts examine the transformation of history and memory by new media, the ways in which exhibitions mediate visitor experience, how designers and curators can establish new kinds of relationships with visitors, the expansion of the museum beyond its walls and its

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insertion into a wider commercial and corporate landscape. Focusing on formal, theoretical and technical aspects of exhibition practice, this in-depth volume explores questions of temporality, attachment to objects, atmospheric and immersive exhibition design, the reinvention of the exhibition medium, and much more. In the United States, some populations suffer from far greater disparities in health than others. Those disparities

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are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence,

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and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. Communities in Action: Pathways to Health Equity seeks to delineate the causes of and the

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solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.

Progress in Theoretical Biology
Biology for AP[®] Courses
Pathways to Health Equity

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Greenspan's Basic and Clinical
Endocrinology, Tenth Edition
A Learning Partnership of Science
Educators and Their Students
The Lotka Hypothesis

The deep sea covers over 60% of the surface of the earth, yet less than 1% has been scientifically investigated. There is growing pressure on deep-sea resources and on researchers to deliver information on biodiversity and the effects of human impacts on deep-sea ecosystems. Although

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scientific knowledge has increased rapidly in recent decades, there exist large gaps in global sampling coverage of the deep sea, and major efforts continue to be directed into offshore research.

Biological Sampling in the Deep Sea represents the first comprehensive compilation of deep-sea sampling methodologies for a range of habitats. It reviews the real life applications of current, and in some instances developing, deep-sea sampling tools and techniques. In creating this book the authors have been

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able to draw upon the experiences of those at the coal face of deep-sea sampling, expanding on the existing methodological texts whilst encompassing a level of technical detail often omitted from journal publications. Ultimately the book will promote international consistency in sampling approaches and data collection, advance the integration of information into global databases, and facilitate improved data analyses and consequently uptake of science results for the management and conservation of the deep-

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sea environment. The book will appeal to a range of readers, including students, early-career through to seasoned researchers, as well as environmental managers and policy makers wishing to understand how the deep-sea is sampled, the challenges associated with deep survey work, and the type of information that can be obtained.

Computational modeling allows to reduce, refine and replace animal experimentation as well as to translate findings obtained in these experiments to the human

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background. However these biomedical problems are inherently complex with a myriad of influencing factors, which strongly complicates the model building and validation process. This book wants to address four main issues related to the building and validation of computational models of biomedical processes:

1. Modeling establishment under uncertainty
2. Model selection and parameter fitting
3. Sensitivity analysis and model adaptation
4. Model predictions under uncertainty

In each of the abovementioned

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areas, the book discusses a number of key-techniques by means of a general theoretical description followed by one or more practical examples. This book is intended for graduate students and researchers active in the field of computational modeling of biomedical processes who seek to acquaint themselves with the different ways in which to study the parameter space of their model as well as its overall behavior.

Physical Biology of the Cell is a textbook for a first course in physical biology or

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biophysics for undergraduate or graduate students. It maps the huge and complex landscape of cell and molecular biology from the distinct perspective of physical biology. As a key organizing principle, the proximity of topics is based on the physical concepts that

Physics in Biology and Medicine, Fourth Edition, covers topics in physics as they apply to the life sciences, specifically medicine, physiology, nursing and other applied health fields. This is a concise introductory paperback that provides

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practical techniques for applying knowledge of physics to the study of living systems and presents material in a straightforward manner requiring very little background in physics or biology. Applicable courses are Biophysics and Applied Physics. This new edition discusses biological systems that can be analyzed quantitatively, and how advances in the life sciences have been aided by the knowledge of physical or engineering analysis techniques. The volume is organized into 18 chapters encompassing

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thermodynamics, electricity, optics, sound, solid mechanics, fluid mechanics, and atomic and nuclear physics. Each chapter provides a brief review of the background physics before focusing on the applications of physics to biology and medicine. Topics range from the role of diffusion in the functioning of cells to the effect of surface tension on the growth of plants in soil and the conduction of impulses along the nervous system. Each section contains problems that explore and expand some of the

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concepts. The text includes many figures, examples and illustrative problems and appendices which provide convenient access to the most important concepts of mechanics, electricity, and optics in the body. **Physics in Biology and Medicine** will be a valuable resource for students and professors of physics, biology, and medicine, as well as for applied health workers. Provides practical techniques for applying knowledge of physics to the study of living systems Presents material in a straight forward manner requiring very

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little background in physics or biology
Includes many figures, examples and
illustrative problems and appendices which
provide convenient access to the most
important concepts of mechanics,
electricity, and optics in the body

In Search of Ourselves

The Evolution of Multicellularity

A Clinical Approach

Communities in Action

Part 1: Chapters 1-17

An Introduction to Physical Anthropology

The field of isotope effects has expanded exponentially in

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the last decade, and researchers are finding isotopes increasingly useful in their studies. Bringing literature on the subject up to date, *Isotope Effects in Chemistry and Biology* covers current principles, methods, and a broad range of applications of isotope effects in the physical, biolo

This book examines the origins and subsequent evolution of multicellularity. The transition from unicellular to multicellular life was one of a few major events in the history of life that created new opportunities for more complex biological systems to evolve.

Prentice Hall Biology utilizes a student-friendly approach

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that provides a powerful framework for connecting the key concepts of biology. New BIG IDEAs help all students focus on the most important concepts. Students explore concepts through engaging narrative, frequent use of analogies, familiar examples, and clear and instructional graphics. Now, with Success Tracker(tm) online, teachers can choose from a variety of diagnostic and benchmark tests to gauge student comprehension. Targeted remediation is available too! Whether using the text alone or in tandem with exceptional ancillaries and technology, teachers can meet the needs of every student at every learning level. With unparalleled reading support,

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resources to reach every student, and a proven research-based approach, authors Kenneth Miller and Joseph Levine continue to set the standard. Prentice Hall Biology delivers: Clear, accessible writing Up-to-date content A student friendly approach A powerful framework for connecting key concepts

Biophysical Chemistry explores the concepts of physical chemistry and molecular structure that underlie biochemical processes. Ideally suited for undergraduate students and scientists with backgrounds in physics, chemistry or biology, it is also equally accessible to students and scientists in related fields as the book

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concisely describes the fundamental aspects of biophysical chemistry, and puts them into a biochemical context. The book is organized in four parts, covering thermodynamics, kinetics, molecular structure and stability, and biophysical methods. Cross-references within and between these parts emphasize common themes and highlight recurrent principles. End of chapter problems illustrate the main points explored and their relevance for biochemistry, enabling students to apply their knowledge and to transfer it to laboratory projects. Features: Connects principles of physical chemistry to biochemistry Emphasizes the role of organic reactions as tools for modification and

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manipulation of biomolecules Includes a comprehensive section on the theory of modern biophysical methods and their applications

Physics in Biology and Medicine

Concepts of Biology

Exotic Pests and Diseases

Prentice Hall Biology B

Benchmarks assessment workbook

Uncertainty in Biology

Methods of Animal Experimentation, Volume IV focuses on research problems related to animal experimentation, including aging, nutrition, and

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environmental studies. It summarizes therapeutic implications of animal experimentation methods to human application. Chapter 1 presents an introduction to inhalation chambers including discussions of the types of inhalation tests, inhalation equipment and technology, methods of generation and measurement of contaminants, and some of the specialized techniques available for the pulmonary exposure of animals. Chapter 2 provides practical information about methods and the auditory abilities of animals. Chapter 3 outlines some basic properties of the vertebrate olfactory systems and summarizes selected experimental methods and findings in olfactory research. The concluding chapter describes

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the use of vertebrate laboratory animals in gustatory research, including some procedures unique to taste research. Research scientists, medical researchers, and olfaction and gustatory experts will find this book invaluable.

A full-color guide to the entire field of clinical endocrinology and its scientific underpinnings – updated with the latest breakthroughs and developments Greenspan's Basic & Clinical Endocrinology delivers a succinct, leading-edge overview of the underlying molecular biology of the endocrine system and the latest perspectives on the diagnosis and treatment of specific diseases and disorders. Featuring an enhanced design that includes

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hundreds of full-color illustrations and clinical photographs, Greenspan's is a true must-have during traditional or integrated courses in endocrinology, endocrinology rotation, or exam prep in internal medicine and endocrinology and as reference for disease management. Greenspan's provides clinically relevant coverage of metabolic bone disease, pancreatic hormones and diabetes mellitus, hypoglycemia, obesity, geriatric endocrinology, and many other diseases and disorders. Supporting this essential material is a handy appendix of normal hormone reference ranges across the lifespan. Here's why Greenspan's is an essential tool for learning how to manage endocrine patients: □ The Tenth Edition is

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enhanced by updated content throughout each chapter □ NEW CHAPTERS on Transgender Endocrinology and Disorders of Sexual Determination and Differentiation □ Important chapter on Evidence-Based Endocrinology and Clinical Epidemiology □ Concise, balanced coverage of both scientific and clinical principles that guide patient management □ The best source for current concepts in endocrine pathophysiology to aid clinical decision making □ The most practical, current insights into diagnostic testing □ More than 270 full-color illustrations and clinical photographs If you are in need of a well-illustrated, completely up-to-date guide to the entire field of clinical endocrinology, this trusted classic belongs on

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your desk or computer.

The College Physics for AP(R) Courses text is designed to engage students in their exploration of physics and help them apply these concepts to the Advanced Placement(R) test. This book is Learning List-approved for AP(R) Physics courses. The text and images in this book are grayscale.

"Molecular Biology: Genes to Proteins is a guide through the basic molecular processes and genetic phenomena of both prokaryotic and eukaryotic cells. Written for the undergraduate and first year graduate students within molecular biology or molecular genetics, the text has been updated with the latest data in the field. It incorporates a biochemical

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approach as well as a discovery approach that provides historical and experimental information within the context of the narrative."--Publisher.

Chemical Effects on Populations, Ecosystems, and Landscapes

Freshwater Algae of North America

Human Reproductive Biology

Lecture-free Teaching

User's Manual for Version 2.0

Molecular Biology

Advances in food science, technology, and engineering are occurring at such a rapid rate that obtaining current, detailed information is challenging at best.

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While almost everyone engaged in these disciplines has accumulated a vast variety of data over time, an organized, comprehensive resource containing this data would be invaluable to have. The BiologyCalifornia Edition Human Reproductive Biology Elsevier

This book constitutes the refereed proceedings of the 15th International Conference on Information Processing in Medical Imaging, IPMI'97, held in Poultney, Vermont, USA, in June 1997. The 27 revised full papers presented were selected from a total of 96 submissions; also included are 31 poster presentations.

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The book is divided into topical sections on shape models and matching, novel imaging methods, segmentation, image quality and statistical character of measured data, registration/mapping, statistical models in functional neuroimaging, and MR analysis and processing.

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are

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needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing

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the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

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Ecology and Classification

Prentice Hall Biology

Microbial Ecology

Environment and The Special Senses

Methods of Animal Experimentation

EnvironmentalStats for S-Plus®

Following the much acclaimed success of the first volume of Key Topics in Conservation Biology, this entirely new second volume addresses an innovative array of key topics in contemporary conservation biology. Written by an internationally

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renowned team of authors, Key Topics in Conservation Biology 2 adds to the still topical foundations laid in the first volume (published in 2007) by exploring a further 25 cutting-edge issues in modern biodiversity conservation, including controversial subjects such as setting conservation priorities, balancing the focus on species and ecosystems, and financial mechanisms to value biodiversity and pay for its conservation. Other chapters, setting the framework for conservation, address the sociology

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and philosophy of peoples' relation with Nature and its impact on health, and such challenging practical issues as wildlife trade and conflict between people and carnivores. As a new development, this second volume of Key Topics includes chapters on major ecosystems, such as forests, islands and both fresh and marine waters, along with case studies of the conservation of major taxa: plants, butterflies, birds and mammals. A further selection of topics consider how to safeguard the future through monitoring,

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reserveplanning, corridors and connectivity, together with approaches to reintroduction and re-wilding, along with managing wildlifedisease. A final chapter, by the editors, synthesises thinking onthe relationship between biodiversity conservation and humandevelopment. Each topic is explored by a team of top international experts, assembled to bring their own cross-cutting knowledge to a penetrating synthesis of the issues from both theoretical andpractical perspectives. The

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interdisciplinary nature of biodiversity conservation is reflected throughout the book. Each essay examines the fundamental principles of the topic, the methodologies involved and, crucially, the human dimension. In this way, Key Topics in Conservation Biology 2, like its sister volume, Key Topics in Conservation Biology, embraces issues from cutting-edge ecological science to policy, environmental economics, governance, ethics, and the practical issues of implementation. Key Topics in Conservation Biology 2 will,

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like its sister volume, be a valuable resource in universities and colleges, government departments, and conservation agencies. It is aimed particularly at senior undergraduate and graduate students in conservation biology and wildlife management and wider ecological and environmental subjects, and those taking Masters degrees in any field relevant to conservation and the environment. Conservation practitioners, policy-makers, and the wider general public eager to understand more about

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important environmental issues will also find this book invaluable.

Progress in Theoretical Biology, Volume 2, brings together the significant and timely theoretical developments in particular areas of biology in a critical and synthetic manner. It is concerned with a field which has emerged as an identifiable subdiscipline of the biological sciences. This emergence and recognition signify that biological science has evolved from its initial stage of description and classification into the adolescence of

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transformation to the quantitative. The book's opening chapter develops a theory that uses a new generalization of statistical mechanics to provide a basis for understanding how the microscopic behavior of nonliving parts can generate the macroscopic appearance of a living aggregate. The subsequent chapters discuss theoretical methods in systematic and evolutionary studies; the theory of neural masses; the design of chemical reaction systems; cooperative processes in biological systems; and the organization

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of motor systems. This book is intended for the modern biological scientist as well as for the physical scientist who is inquisitive of the ways of the most complex of all processes.

A best-selling core textbook for medical students taking medical biochemistry, Marks' Basic Medical Biochemistry links biochemical concepts to physiology and pathophysiology, using hypothetical patient vignettes to illustrate core concepts. Completely updated to include full-color art, expanded clinical notes,

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and bulleted end-of-chapter summaries, the revised Third Edition helps medical students understand the importance of the patient and bridges the gap between biochemistry, physiology, and clinical care. A new companion Website will offer the fully searchable online text, an interactive question bank with 250 multiple-choice questions, animations depicting key biochemical processes, self-contained summaries of patients described in the book, and a comprehensive list of disorders discussed in the text, with

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relevant Website links. An image bank, containing all the images in the text, will be available to faculty.

Toxic chemicals can exert effects on all levels of the biological hierarchy, from cells to organs to organisms to populations to entire ecosystems. However, most risk assessment models express their results in terms of effects on individual organisms, without corresponding information on how populations, groups of species, or whole ecosystems may respond to chemical stressors. Ecological Modeling

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in Risk Assessment: Chemical Effects on Populations, Ecosystems, and Landscapes takes a new approach by compiling and evaluating models that can be used in assessing risk at the population, ecosystem, and landscape levels. The authors give an overview of the current process of ecological risk assessment for toxic chemicals and of how modeling of populations, ecosystems, and landscapes could improve the status quo. They present a classification of ecological models and explain the differences between

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population, ecosystem, landscape, and toxicity-extrapolation models. The authors describe the model evaluation process and define evaluation criteria. Finally, the results of the model evaluations are presented in a concise format with recommendations on modeling approaches to use now and develop further. The authors present and evaluate various models on the basis of their realism and complexity, prediction of relevant assessment endpoints, treatment of uncertainty, regulatory acceptance, resource

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efficiency, and other criteria. They provide models that will improve the ecological relevance of risk assessments and make data collection more cost-effective. Ecological Modeling in Risk Assessment serves as a reference for selecting and applying the best models when performing a risk assessment.

Physical Biology of the Cell

College Physics for AP® Courses

Strengthening Forensic Science in the United States

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*Book I , Elements of Consciousness
Information Processing in Medical Imaging*