

Eutrophication Pogil

Construction Planning and Scheduling, Fourth Edition offers broad coverage of all major scheduling subjects. This comprehensive resource is designed for construction management, planning and scheduling. It follows a logical progression, introducing precedence diagramming early and following with chapters on activity durations, resource allocations, network schedules, and more. It reflects current trends in scheduling (short-interval scheduling, computer scheduling, linear scheduling etc.) and includes chapters on arrow diagramming and PERT. With an eye on application, it includes a unique discussion of contract provisions related to scheduling and incorporates a sample project throughout.

This clear and lively introduction to probability theory concentrates on the results that are the most useful for applications, including combinatorial probability and Markov chains. Concise and focused, it is designed for a one-semester introductory course in probability for students who have some familiarity with basic calculus. Reflecting the author's philosophy that the best way to learn probability is to see it in action, there are more than 350 problems and 200 examples. The examples contain all the old standards such as the birthday problem and Monty Hall, but also include a number of applications not found in other books, from areas as broad ranging as genetics, sports, finance, and inventory management.

This workbook offers a variety of activities to suit different learning styles. Activities such as modeling and mapping allow students to visualize and understand biological processes. New activities focus on reading and developing graphs and basic skills.

Plant Strategies, Vegetation Processes, and Ecosystem Properties, Second Edition, is a thoroughly updated and comprehensive new edition of the very successful Plant Strategies and Vegetative Processes, which controversially proposed the existence of widely-recurring plant functional types with predictable relationships to vegetation structure and dynamics. This second edition uses evidence from many parts of the world to re-examine these concepts in the light of the enormous expansion in the literature. Features include: * A new section covering all aspects of ecosystem properties * New chapters on Assembling of Communities Rarification and Extinction Colonisation and Invasion * Principles and methodologies of a range of international tests including case study examples * Chapter summaries for a quick reference guide * Index of species names Written in a very readable style, this book is an invaluable reference source for researchers in the areas of plant, animal, and community ecology, conservation and land management. 'Written by one of the foremost authorities in the field, summarising over 35 years of research. A book all plant ecologists will want to read.' - Jonathan Silvertown, Department of Biological Sciences, The Open University, UK. 'The coverage is outstanding and comprehensive.' - Simon A. Levin, Department of Ecology and Evolutionary Biology, Princeton University, USA

This oversized lift-the-flap board book of a child's first 101 words has big, clearly labeled photos of objects in a baby and toddler's world with an interactive puzzle activity on each spread. Identifying words and their meanings is an important foundational step in language development for babies and toddlers, and Highlights brings Fun with a Purpose® into this essential learning. Babies will love looking at and naming the photos in this sturdy book, while toddlers and parents will enjoy the lift-the-flap questions and answers that help them find the cute red bird hidden on each spread.

Global warming continues to gain importance on the international agenda and calls for action are heightening. Yet, there is still controversy over what must be done and what is needed to proceed. Policy Implications of Greenhouse Warming describes the information necessary to make decisions about global warming resulting from atmospheric releases of radiatively active trace gases. The conclusions and recommendations include some unexpected results. The distinguished authoring committee provides specific advice for U.S. policy and addresses the need for an international response to potential greenhouse warming. It offers a realistic view of gaps in the scientific understanding of greenhouse warming and how much effort and expense might be required to produce definitive answers. The book presents methods for assessing options to reduce emissions of greenhouse gases into the atmosphere, offset emissions, and assist humans and unmanaged systems of plants and animals to adjust to the consequences of global warming.

Eutrophication continues to be a major global challenge and the problem of eutrophication and availability of freshwater for human consumption is an essential ecological issue. The global demand for water resources due to increasing population, economic developments, and emerging energy development schemes has created new environmental challenges for global sustainability. Accordingly, the area of research on eutrophication has expanded considerably in recent years. Eutrophication, acidification and contamination by toxic substances are likely to pose increasing threats to freshwater resources and ecosystems. The consequences of anthropogenic-induced eutrophication of freshwaters are severe deterioration of surface waters and growing public concern, as well as new interest among the scientific community. "Eutrophication: causes, consequences & control" provides the latest information on many important aspects of the processes of natural and accelerated eutrophication in major aquatic ecosystems around the world. This book offers a cutting-edge resource for researchers and students alike who are studying eutrophication in various ecosystems. It presents the latest trends and developments in the field, including: global scenarios and local threats to the dynamics of aquatic ecosystems, economics of eutrophication, eutrophication in the great lakes of the Chinese pacific drainage basin, photoautotrophic productivity in eutrophic ecosystems, eutrophication's impacts on natural metal remediation in salt marshes, phytoplankton assemblages as an indicator of water quality in seven temperate estuarine lakes in southeast Australia, biogeochemical indicators of nutrient enrichments in wetlands – the microbial response as a sensitive indicator of wetland eutrophication, and ultraviolet radiation and bromide as limiting factors in eutrophication processes in semi-arid climate zones. Written by respected experts and featuring helpful illustrations and photographs, "Eutrophication: causes, consequences & control" provides a concise and practical update on the latest developments in eutrophication.

Learner-centered teaching is a pedagogical approach that emphasizes the roles of students as participants in and drivers of their own learning. Learner-centered teaching activities go beyond traditional lecturing by helping students construct their own understanding of information, develop skills via hands-on engagement, and encourage personal reflection through metacognitive tasks. In addition, learner-centered classroom approaches may challenge students' preconceived notions and expand their thinking by confronting them with thought-provoking statements, tasks or scenarios that cause them to pay closer attention and cognitively "see" a topic from new perspectives. Many types of pedagogy fall under the umbrella of learner-centered teaching including laboratory work, group discussions, service and project-based learning, and student-led research, among others. Unfortunately, it is often not possible to use some of these valuable methods in all course situations given constraints of money, space, instructor expertise, class-meeting and instructor preparation time, and the availability of prepared lesson plans and material. Thus, a major challenge for many instructors is how to integrate learner-centered activities widely into their courses. The broad goal of this volume is to help advance environmental education practices that help increase students' environmental

literacy. Having a diverse collection of learner-centered teaching activities is especially useful for helping students develop their environmental literacy because such approaches can help them connect more personally with the material thus increasing the chances for altering the affective and behavioral dimensions of their environmental literacy. This volume differentiates itself from others by providing a unique and diverse collection of classroom activities that can help students develop their knowledge, skills and personal views about many contemporary environmental and sustainability issues. ? ? ?

Presents a multifaceted model of understanding, which is based on the premise that people can demonstrate understanding in a variety of ways.

In order to answer important questions about ecosystems and biodiversity, scientists can look to the past geological record—which includes fossils, sediment and ice cores, and tree rings. Because of recent advances in earth scientists'™ ability to analyze biological and environmental information from geological data, the National Science Foundation and the U.S. Geological Survey asked a National Research Council (NRC) committee to assess the scientific opportunities provided by the geologic record and recommend how scientists can take advantage of these opportunities for the nation's™ benefit. The committee identified three initiatives for future research to be developed over the next decade: (1) use the geological record as a "natural laboratory" to explore changes in living things under a range of past conditions, (2) use the record to better predict the response of biological systems to climate change, and (3) use geologic information to evaluate the effects of human and non-human factors on ecosystems. The committee also offered suggestions for improving the field through better training, improved databases, and additional funding.

INTRODUCTION TO MARINE BIOLOGY sparks curiosity about the marine world and provides an understanding of the process of science. Taking an ecological approach and intended for non-science majors, the text provides succinct coverage of the content while the photos and art clearly illustrate key concepts. Studying is made easy with phonetic pronunciations, a running glossary of key terms, end-of-chapter questions, and suggestions for further reading at the end of each chapter. The open look and feel of INTRODUCTION TO MARINE BIOLOGY and the enhanced art program convey the beauty and awe of life in the ocean. Twenty spectacular photos open the chapters, piquing the motivation and attention of students, and over 60 photos and pieces of art are new or redesigned. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

When we originally published Biogeochemistry of a Forested Ecosystem in 1977, the Hubbard Brook Ecosystem Study (HBES) had been in existence for 14 years, and we included data through 1974, or a biogeochemical record of 11 years. Now our continuous, long-term biogeochemical records cover more than 31 years, and there have been many changes. The most notable change, however, is that three of our coauthors on the original volume are now deceased. They are deeply missed in so many ways. In spite of the longer records, different trends, and new insights, we believe that the basic concepts and approaches we presented in 1977 represent the most valuable contribution of the original edition. They are still valid and useful, particularly for an introductory study of, or course in, biogeochemistry. Our goal in this revision is to preserve these features, correct errors, and revise or eliminate misleading or ambiguous short-term data (11 years!), while maintaining approximately the original length and the modest cost.

Emphasizes the ecological principles that guide marine life throughout environments within the world's oceans. The authors provide an ecological approach that helps students understand the real-world relevance of marine biology by exploring how organisms interact within their individual ecosystems.

A prescient warning of a future we now inhabit, where fake news stories and Internet conspiracy theories play to a disaffected American populace "A glorious book . . . A spirited defense of science . . . From the first page to the last, this book is a manifesto for clear thought."—Los Angeles Times How can we make intelligent decisions about our increasingly technology-driven lives if we don't understand the difference between the myths of pseudoscience and the testable hypotheses of science? Pulitzer Prize-winning author and distinguished astronomer Carl Sagan argues that scientific thinking is critical not only to the pursuit of truth but to the very well-being of our democratic institutions. Casting a wide net through history and culture, Sagan examines and authoritatively debunks such celebrated fallacies of the past as witchcraft, faith healing, demons, and UFOs. And yet, disturbingly, in today's so-called information age, pseudoscience is burgeoning with stories of alien abduction, channeling past lives, and communal hallucinations commanding growing attention and respect. As Sagan demonstrates with lucid eloquence, the siren song of unreason is not just a cultural wrong turn but a dangerous plunge into darkness that threatens our most basic freedoms. Praise for *The Demon-Haunted World* "Powerful . . . A stirring defense of informed rationality. . . Rich in surprising information and beautiful writing."—The Washington Post Book World "Compelling."—USA Today "A clear vision of what good science means and why it makes a difference. . . A testimonial to the power of science and a warning of the dangers of unrestrained credulity."—The Sciences "Passionate."—San Francisco Examiner-Chronicle

This book discusses the importance of identifying and addressing misconceptions for the successful teaching and learning of science across all levels of science education from elementary school to high school. It suggests teaching approaches based on research data to address students' common misconceptions. Detailed descriptions of how these instructional approaches can be incorporated into teaching and learning science are also included. The science education literature extensively documents the findings of studies about students' misconceptions or alternative conceptions about various science concepts. Furthermore, some of the studies involve systematic approaches to not only creating but also implementing instructional programs to reduce the incidence of these misconceptions among high school science students. These studies, however, are largely unavailable to classroom practitioners, partly because they are usually found in various science education journals that teachers have no time to refer to or are not readily available to them. In response, this book offers an essential and easily accessible guide.

The Global Carbon Cycle is a short introduction to this essential geochemical driver of the Earth's climate system, written by one of the world's leading climate-science experts. In this one-of-a-kind primer, David Archer engages readers in clear and simple terms about the many ways the global carbon cycle is woven into our climate system. He begins with a concise overview of the subject, and then looks at the carbon cycle on three different time scales, describing how the cycle interacts with climate in very distinct ways in each. On million-year time scales, feedbacks in the carbon cycle stabilize Earth's climate and oxygen concentrations. Archer explains how on hundred-thousand-year glacial/interglacial time scales, the carbon cycle in the ocean amplifies climate change, and how, on the human time scale of decades, the carbon cycle has been dampening climate change by absorbing fossil-fuel carbon dioxide into the oceans and land biosphere. A central question of the book is whether the carbon cycle could once again act to amplify climate change in centuries to come, for example through melting permafrost peatlands and methane hydrates. The Global Carbon Cycle features a glossary of terms, suggestions for further reading, and explanations of equations, as well as a forward-looking discussion of open questions about the global carbon cycle.

Fully endorsed by OCR for use with OCR Mathematics GCE specification

POGIL Activities for AP Biology Plankton A Guide to Their Ecology and Monitoring for Water Quality CSIRO PUBLISHING 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.

World Quest combines the drama and excitement of an episodic story, with real world texts and topics to accelerate students' progression. Your students will be enchanted by award winning author, Paul Shipton's episodic story at the beginning of each unit and they will want to know what happens next. Written especially for the course, the story introduces key vocabulary at the start of each unit as well as capturing students' attention. Read the stories aloud in class or listen to them on the class audio CDs. Give your students the vocabulary, grammar and practice they need to progress quickly in English. When students use English in the real world they are most likely to want to talk about their own lives and interests, World Quest provides them with the vocabulary and grammar to do this as well as plenty of practice.

This manual provides qualitative and quantitative laboratory exercises to serve the needs of a one-year general chemistry program. It was written in the belief that laboratory studies are an essential part of undergraduate education. Each experiment has a well-defined objective that underscores a basic chemical tenet while providing a reliable, reproducible and satisfying result. Specifically, students learn how to perform essential laboratory techniques such as weighing, titration, glass-working, and informed calculations based on experimental data. Moreover, professional conduct including approaches to safety rules, chemical disposal and storage, organization, and neatness in laboratory operations are integral to each experiment. Through the assembly of scientific apparatus leading to the observation of chemical reactions, this laboratory course stimulates an interest in chemical phenomena. The use of "unknowns" and the use of specific laboratory techniques applied to solve practical problems demonstrate the investigative nature of chemistry. Through these laboratory exercises, students learn that even the most precise scientific measurements are subject to uncertainty. Thereby students learn to distinguish between experimental errors, uncertainties, and "blunders." Thus, the importance of error analysis is introduced at an early stage of their scientific training. The quantitative, qualitative, and synthetic general chemistry laboratory exercises within this manual may be used in an independent laboratory course, separate from lecture, or in conjunction with a variety of textbooks. This manual is designed for an instructor to schedule experiments that meet the demands of many varied and different student groups. The laboratory experiments within this manual include a wide range of interesting studies in the general categories of basic principles, techniques of separation and identification; moles, and stoichiometry; chemical thermodynamics; electron transfer; acid-base equilibria; kinetics and physical properties of matter; and synthesis and characterization of inorganic compounds and complex ions. The manual falls into four parts: 1. Introductory material on experimental procedures, laboratory safety, and mathematical treatment of data; 2. Laboratory experiments; 3. Pre-laboratory preparatory material; 4. Appendices. Parts of the manual are designed to take advantage of the vastly increased computing power offered by smart phones, computer tablets, and personal computers.

With "Sustainability: A Comprehensive Foundation," first and second-year college students are introduced to this expanding new field, comprehensively exploring the essential concepts from every branch of knowledge - including engineering and the applied arts, natural and social sciences, and the humanities. As sustainability is a multi-disciplinary area of study, the text is the product of multiple authors drawn from the diverse faculty of the University of Illinois: each chapter is written by a recognized expert in the field.

The National Science Foundation funded a synthesis study on the status, contributions, and future direction of discipline-based education research (DBER) in physics, biological sciences, geosciences, and chemistry. DBER combines knowledge of teaching and learning with deep knowledge of discipline-specific science content. It describes the discipline-specific difficulties learners face and the specialized intellectual and instructional resources that can facilitate student understanding. Discipline-Based Education Research is based on a 30-month study built on two workshops held in 2008 to explore evidence on promising practices in undergraduate science, technology, engineering, and mathematics (STEM) education. This book asks questions that are essential to advancing DBER and broadening its impact on undergraduate science teaching and learning. The book provides empirical research on undergraduate teaching and learning in the sciences, explores the extent to which this research currently influences undergraduate instruction, and identifies the intellectual and material resources required to further develop DBER. Discipline-Based Education Research provides guidance for future DBER research. In addition, the findings and recommendations of this report may invite, if not assist, post-secondary institutions to increase interest and research activity in DBER and improve its quality and usefulness across all natural science disciplines, as well as guide instruction and assessment across natural science courses to improve student learning. The book brings greater focus to issues of student attrition in the natural sciences that are

related to the quality of instruction. Discipline-Based Education Research will be of interest to educators, policy makers, researchers, scholars, decision makers in universities, government agencies, curriculum developers, research sponsors, and education advocacy groups.

This book is the outcome of a NAAIL Advanced Study Institute on the contemporary global carbon cycle, held in n Ciocco, Italy, September 8-20, 1991. The motivation for this ASI originated from recent controversial findings regarding the relative roles of the ocean and the land biota in the current global balance of atmospheric carbon dioxide. Consequently, the purpose of this institute was to review, among leading experts in the field, the multitude of known constraints on the present day global carbon cycle as identified by the fields of meteorology, physical and biological oceanography, geology and terrestrial biosphere sciences. At the same time the form of an Advanced Study Institute was chosen, thus providing the opportunity to convey the information in tutorial form across disciplines and to young researchers entering the field. The first three sections of this book contain the lectures held in Il Ciocco. The first section reviews the atmospheric, large-scale global constraints on the present day carbon cycle including the emissions of carbon dioxide from fossil fuel use and it provides a brief look into the past. The second section discusses the role of the terrestrial biosphere and the third the role of the ocean in the contemporary global carbon cycle.

This textbook helps you to prepare for your next exams and practical courses by combining theory with virtual lab simulations. The "Labster Virtual Lab Experiments" series gives you a unique opportunity to apply your newly acquired knowledge in a learning game that simulates exciting laboratory experiments. Try out different techniques and work with machines that you otherwise wouldn't have access to. In this book, you'll learn the fundamental concepts of the genetics of human diseases focusing on: Monogenic Disorders - Cytogenetics - Medical Genetics - Viral Gene Therapy. In each chapter, you'll be introduced to one virtual lab simulation and a true-to-life challenge. Following a theory section, you'll be able to play the relevant simulation that includes quiz questions to reinforce your understanding of the covered topics. 3D animations will show you molecular processes not otherwise visible to the human eye. If you have purchased a printed copy of this book, you get free access to five simulations for the duration of six months. If you're using the e-book version, you can sign up and buy access to the simulations at www.labster.com/springer. If you like this book, try out other topics in this series, including "Basic Biology", "Basic Genetics", and "Basic Biochemistry".

Lecture Notes in Population Genetics By Kent E. Holsinger

A. Javier Treviño, working with a panel of experts, thoroughly examines all aspects of social problems, providing a contemporary and authoritative introduction to the field. Each chapter is written by a specialist on that particular topic and the unique, contributed format ensures that the research and examples provided are the most current and relevant available. The text is framed around three major themes: intersectionality (the interplay of race, ethnicity, class, and gender), the global scope of many problems, and how researchers take an evidence-based approach to studying problems.

"Biogeochemistry considers how the basic chemical conditions of the Earth—from atmosphere to soil to seawater—have been and are being affected by the existence of life. Human activities in particular, from the rapid consumption of resources to the destruction of the rainforests and the expansion of smog-covered cities, are leading to rapid changes in the basic chemistry of the Earth. This expansive text pulls together the numerous fields of study encompassed by biogeochemistry to analyze the increasing demands of the growing human population on limited resources and the resulting changes in the planet's chemical makeup. The book helps students extrapolate small-scale examples to the global level, and also discusses the instrumentation being used by NASA and its role in studies of global change. With extensive cross-referencing of chapters, figures and tables, and an interdisciplinary coverage of the topic at hand, this updated edition provides an excellent framework for courses examining global change and environmental chemistry, and is also a useful self-study guide."--Publisher's website.

Using probes as diagnostic tools that identify and analyze students' preconceptions, teachers can easily move students from where they are in their current thinking to where they need to be to achieve scientific understanding.

Plant Responses to the Environment covers the fundamental mechanisms of plant responses to biotic and abiotic environmental stimuli. By combining established disciplines like physiology and genetics with new approaches stemming from molecular biology and biophysics, a new synthesis is achieved. For example, this book deals with the effects of microgravity on plant development, and it provides an extensive analysis of plant perception and response to low oxygen and high ozone. New techniques such as those used for gene transfer using the biolistic gene gun approach in soybeans are described. Other topics considered include systemic acquired resistance (SAR) in plants and recent advances in understanding how legume roots perceive bacterial lipooligosaccharide signals. A glossary, subject index, and author index are also provided. Plant Responses to the Environment will be a valuable reference for plant physiologists, ecophysicologists, agronomists, plant molecular biologists, experimental botanists, and other researchers interested in the topic.

Healthy waterways and oceans are essential for our increasingly urbanised world. Yet monitoring water quality in aquatic environments is a challenge, as it varies from hour to hour due to stormwater and currents. Being at the base of the aquatic food web and present in huge numbers, plankton are strongly influenced by changes in environment and provide an indication of water quality integrated over days and weeks. Plankton are the aquatic version of a canary in a coal mine. They are also vital for our existence, providing not only food for fish, seabirds, seals and sharks, but producing oxygen, cycling nutrients, processing pollutants, and removing carbon dioxide from our atmosphere. This Second Edition of Plankton is a fully updated introduction to the biology, ecology and identification of plankton and their use in monitoring water quality. It includes expanded, illustrated descriptions of all major groups of freshwater, coastal and marine phytoplankton and zooplankton and a new chapter on teaching science using plankton. Best practice methods for plankton sampling and monitoring programs are presented using case studies, along with explanations of how to analyse and interpret sampling data. Plankton is an invaluable reference for teachers and students, environmental managers, ecologists, estuary and catchment management committees, and coastal engineers.

In this book, the authors focus on the improvement of the scientific base for the development of environmental risk indicators measured by the presence of pollutants in water and porous media. In pursuit of a correct and complete numerical approach, they deliver insight into the understanding of integrated process, and also of modeling capabilities.

The study of sediments such as silt, clay and sand, and the processes that shape their formation is referred to as sedimentology. Some of these processes are weathering, erosion, deposition, transport and diagenesis. Studies of sedimentary rocks and structures are fundamental to the reconstruction of past environments and understanding of the Earth's geologic history. The principles of superposition, original horizontality, lateral continuity and cross-cutting relationships are vital to the study of sedimentology. This field is closely associated with stratigraphy. It is a branch of geology that studies rock layers and stratification. It is crucial for the study of layered volcanic rocks and sedimentology. The sub-fields of stratigraphy are biostratigraphy and lithostratigraphy. Descriptions of rock core, sequence stratigraphy and lithology of the rock are some of the focus areas of sedimentology as well as stratigraphy. This book provides comprehensive insights into the fields of sedimentology and stratigraphy. Also included in this book is a detailed explanation of the various concepts and applications of these domains. In this book, using case studies and examples, constant effort has been made to make the understanding of the difficult concepts of these disciplines as easy and informative as possible for the readers.

The Language of Science Education: An Expanded Glossary of Key Terms and Concepts in Science Teaching and Learning is written expressly for science education professionals and students of science education to provide the foundation for a shared vocabulary of the field of science teaching and learning. Science education is a part of education studies but has developed a unique vocabulary that is occasionally at odds with the ways some terms are commonly used both in the field of education and in general conversation. Therefore, understanding the specific way that terms are used within science education is vital for those who wish to understand the existing literature or make contributions to it. The Language of Science Education provides definitions for 100 unique terms, but when considering the related terms that are also defined as they relate to the targeted words, almost 150 words are represented in the book. For instance, "laboratory instruction" is accompanied by definitions for openness, wet lab, dry lab, virtual lab and cookbook lab. Each key term is defined both with a short entry designed to provide immediate access following by a more extensive discussion, with extensive references and examples where appropriate. Experienced readers will recognize the majority of terms included, but the developing discipline of science education demands the consideration of new words. For example, the term blended science is offered as a better descriptor for interdisciplinary science and make a distinction between project-based and problem-based instruction. Even a definition for science education is included. The Language of Science Education is designed as a reference book but many readers may find it useful and enlightening to read it as if it were a series of very short stories.

"Mississippi Department of Environmental Quality."

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