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Algae 2nd Edition Graham Wilcox algae 2nd edition graham wilcox Dr. Graham is a Fellow of the AAAS. Lee W. Wilcox received his Ph.D. in Botany from the University of Wisconsin-Madison. His research interests include symbiosis, evolution, and cell biology of dinoflagellates, green algae, and plants.

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Linda E. Graham, James M. Graham, Lee Warren Wilcox Benjamin Cummings, 2009 - Science - 616 pages 1 Review The foremost textbook and reference for studying Phycology, Algae, Second Edition features...

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Algae form the base of aquatic food webs, and are both the cau se of water quality issues and a tool in ecological assessments used to protect inland waters. Goals: Students learn the features ...

(PDF) Algae: Anatomy, Biochemistry, and Biotechnology by ...
Current, comprehensive, and readily accessible to all readers regardless of their knowledge on the subject, this information-packed resource on freshwater, marine, and terrestrial algae forms focuses on what people really want to know about algae—why they are so diverse; how they are related; how to distinguish the major types; their roles in food webs, global biogeochemical cycling; the ...

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The foremost textbook and reference for studying Phycology, Algae , Second Edition, features hundreds of new illustrations, a new chapter on terrestrial algae, and thorough updates that reflect new classification structures.

Provides a stimulating overview of the importance of algae. Covers biotic associations involving algae, with discussions on herbivory interactions, algal food quality, symbioses, pathogenic interactions, and more. Considers the economic, ecological, and biotechnological applications of algae, and provides complete coverage of algal biodiversity, classification systems, molecular phylogenetics, and application of molecular information to ecological problems. Offers a detailed study of endosymbiosis, and includes intensive, stand-alone chapters on cryptomonads, dinoflagellates, ochrophytes, red algae, green algae, and phytoplankon ecology. Covers new analytical techniques (i.e. molecular phylogenetics, DNA-based approaches to the study of life cycles, and fluorescence methods for the study of photosynthesis); integrates many interesting boxed essays ... (Midwest).

Freshwater Algae of North America: Ecology and Classification, Second Edition is an authoritative and practical treatise on the classification, biodiversity, and ecology of all known genera of freshwater algae from North America. The book provides essential taxonomic and ecological information about one of the most diverse and ubiquitous groups of organisms on earth. This single volume brings together experts on all the groups of algae that occur in fresh waters (also soils, snow, and extreme inland environments). In the decade since the first edition, there has been an explosion of new information on the classification, ecology, and biogeography of many groups of algae, with the use of molecular techniques and renewed interest in biological diversity. Accordingly, this new edition covers updated classification information of most algal groups and the reassignment of many genera and species, as well as new research on harmful algal blooms. Extensive and complete Describes every genus of freshwater algae known from North America, with an analytical dichotomous key, descriptions of diagnostic features, and at least one image of every genus. Full-color images throughout provide superb visual examples of freshwater algae Updated Environmental Issues and Classifications, including new information on harmful algal blooms (HAB) Fully revised introductory chapters, including new topics on biodiversity, and taste and odor problems Updated to reflect the rapid advances in algal classification and taxonomy due to the widespread use of DNA technologies

An exhaustive review on all things algae would require a multi-volume encyclopedic work. Even then, such a tome would prove to be of limited value, as in addition to being quite complex, it would soon be outdated, as the field of phycology is full of continual revelations and new discoveries. Algae: Anatomy, Biochemistry, and Biotechnology o

Authored by world-class scientists and scholars, the Handbook of Natural Resources, Second Edition, is an excellent reference for understanding the consequences of changing natural resources to the degradation of ecological integrity and the sustainability of life. Based on the content of the bestselling and CHOICE awarded Encyclopedia of Natural Resources, this new edition demonstrates the major challenges that the society is facing for the sustainability of all wellbeing on planet Earth. The experience, evidence, methods, and models used in studying natural resources are presented in six stand-alone volumes, arranged along the main systems: land, water, and air. It reviews state-of-the-art knowledge, highlights advances made in different areas, and provides guidance for the appropriate use of remote sensing data in the study of natural resources on a global scale. The six volumes in this set cover: Terrestrial Ecosystems and Biodiversity; Landscape and Land Capacity; Wetlands and Habitats; Fresh Water and Watersheds; Coastal and Marine Environments; and finally Atmosphere and Climate. Written in an easy-to-reference manner, the Handbook of Natural Resources, Second Edition, as a complete set, is essential for anyone looking for a deeper understanding of the science and management of natural resources. Public and private libraries, educational and research institutions, scientists, scholars, and resource managers will benefit enormously from this set. Individual volumes and chapters can also be used in a wide variety of both graduate and undergraduate courses in environmental science and natural science courses at different levels and disciplines, such as biology, geography, Earth system science, ecology, etc.

Key Benefit: For non-majors and mixed-majors introductory botany (plant biology) courses. Plant Biology focuses readers on the function of plants and the role they play in our world. With evolved content and a new organization, the authors emphasize the scientific method to help readers develop the critical thinking skills they need to make sound decisions throughout life. Together, the emphasis on how plants work and the development of critical-thinking skills support the authors' goal of fostering scientific literacy. Key Topics: Introduction to Plant Biology, Plants and People, Molecules and Plants, Cells, Photosynthesis and Respiration, DNA, RNA, and Protein Synthesis, Cell Division: Mitosis and Cytokinesis, Plant Structure, Growth, and Development, Stems, Roots, Leaves, Plant Behavior, Reproduction, Meiosis, and Life Cycles, Genetics and the Laws of Inheritance, Genetic Engineering, Biological Evolution, Naming and Organizing Microbes, Viruses, and Plants, Prokaryotes and the Origin of Life, Protists and the Origin of Eukaryotic Cells, Fungi and Lichens, Seedless Plants: Bryophytes, Lycophytes, and Pteridophytes, Gymnosperms and the Origin of Seeds, Angiosperm Reproduction: Flowers, Fruits, and Seeds, Flowering Plant and Animal Coevolution: Pollination and Seed Dispersal, Principles of Ecology and the Biosphere, Arid Terrestrial Ecosystems, Moist Terrestrial Ecosystems, Aquatic Ecosystems, Human Impacts and Sustainability Market Description: For those interested in learning the basics of plant biology

Freshwater Algae: Identification and Use as Bioindicators provides a comprehensive guide to temperate freshwater algae, with additional information on key species in relation to environmental characteristics and implications for aquatic management. The book uniquely combines practical material on techniques and water quality management with basic algal taxonomy and the role of algae as bioindicators. Freshwater Algae: Identification and Use as Bioindicators is divided into two parts. Part I describes techniques for the sampling, measuring and observation of algae and then looks at the role of algae as bioindicators and the implications for aquatic management. Part II provides the identification of major genera and 250 important species. Well illustrated with numerous original illustrations and photographs, this reference work is essential reading for all practitioners and researchers concerned with assessing and managing the aquatic environment.

AWWA Manual of Water Supply Practice M57 provides all the information required by water treatment professionals to understand and mitigate problems caused by algae in source waters, such as tastes and odors, biofouling, and toxin production. With more than 450 pages and hundreds of photos and illustrations, the manual is a comprehensive reference for identifying and treating algae from drinking water sources.

Pigments act as tracers to elucidate the fate of phytoplankton in the world's oceans and are often associated with important biogeochemical cycles related to carbon dynamics in the oceans. They are increasingly used in in situ and remote-sensing applications, detecting algal biomass and major taxa through changes in water colour. This book is a follow-up to the 1997 volume Phytoplankton Pigments in Oceanography (UNESCO Press). Since then, there have been many advances concerning phytoplankton pigments. This book includes recent discoveries on several new algal classes particularly for the picoplankton, and on new pigments. It also includes many advances in methodologies, including liquid chromatography-mass spectrometry (LC-MS) and developments and updates on the mathematical methods used to exploit pigment information and extract the composition of phytoplankton communities. The book is invaluable primarily as a reference for students, researchers and professionals in aquatic science, biogeochemistry and remote sensing.

The term microalgae is often used in the algal research community to collectively describe microscopic algae and cyanobacteria. Research of microalgae has expanded enormously, namely because of their significant commercial potential. The thorough knowledge of the physiology of microalgae must precede any commercial exploitation. We have to understand the mechanisms underlying the physiological and biochemical processes in the algal cells. The book Microalgae - From Physiology to Application covers major aspects of microalgae physiology and the possible applications in the sphere of biotechnology. This book gives a comprehensive overview of what is known about microalgae growth and production, secondary metabolites, and development of new species and products for commercialization. This volume should allow readers at all levels an entry into the exciting world of algal research.

With unprecedented attention on global change, the current debate revolves around the availability and sustainability of natural resources and how to achieve equilibrium between what society demands from natural environments and what the natural resource base can provide. A full understanding of the range of issues, from the consequences of the changing resource bases to the degradation of ecological integrity and the sustainability of life, is crucial to the process of developing solutions to this complex challenge. Authored by world-class scientists and scholars, The Encyclopedia of Natural Resources provides an authoritative reference on a broad spectrum of topics such as the forcing factors and habitats of life; their histories, current status, and future trends; and their societal connections, economic values, and management. The content presents state-of-the-art science and technology development and perspectives of resource management. Written and designed with a broad audience in mind, the entries clearly elucidate the issues for readers at all levels without sacrificing the scientific rigor required by professionals in the field. Volume I – Land includes 98 entries that cover the topical areas of renewable and nonrenewable natural resources such as forest and vegetative; soil; terrestrial coastal and inland wetlands; landscape structure and function and change; biological diversity; ecosystem services, protected areas, and management; natural resource economics; and resource security and sustainability. Natural resources represent such a broad scope of complex and challenging topics that a reference book must cover a vast number of subjects in order to be titled an encyclopedia. The Encyclopedia of Natural Resources does just that. The topics covered help you face current and future issues in the maintenance of clean air and water as well as the preservation of land resources and native biodiversity. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk

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