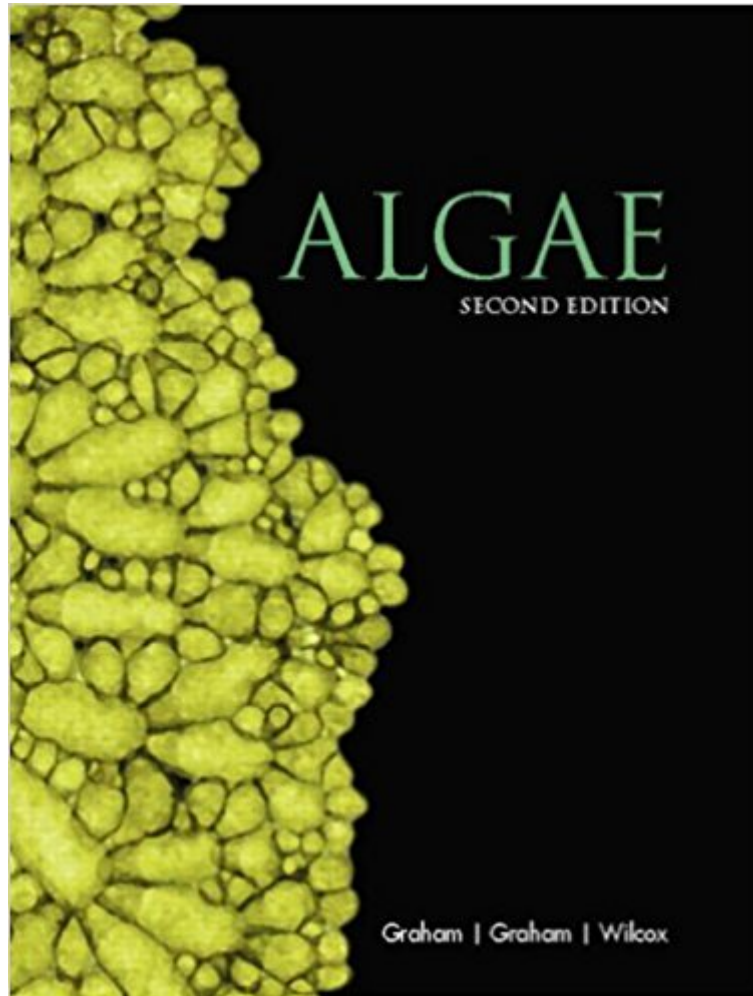




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Algae (2nd Edition)



Synopsis

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. With an emphasis on algae ecology and molecular biology, the authors focus on what students 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 formation of harmful algae blooms; and how we utilize them. The text also provides a broad coverage of freshwater, marine, and terrestrial algae.

Introduction to the Algae

- Occurrence, Relationships, Nutrition, Definition, General Features, The Roles of Algae in Biochemistry, Algae in Biotic Associations, Technological Applications of Algae, Algal Diversity and Relationships
- Taxonomy, Systematics, and Phylogeny, Cyanobacteria (Chloroxybacteria), Endosymbiosis and the Origin of Eukaryotic Algae
- With a Focus on Glaucophytes, Chlorarachniophytes, and Apicomplexans, Euglenoids, Cryptomonads, Haptophytes, Dinoflagellates, Ochrophytes I
- Introduction to the Ochrophytes and a focus on Diatoms, Ochrophytes II
- Raphidophyceans, Chrysophyceans, Synurophyceans, and Eustigmatophyceans, Ochrophytes III
- Pelagophyceans, Silicoflagellates, Pedinellids, and Related Forms, Ochrophytes IV
- Chrysomeridaleans, Phaeothamniophyceans, Tribophyceans, and Phaeophyceans, Red Algae, Green Algae I
- Introduction and Prasinophyceans, Green Algae II
- Ulvophyceans, Green Algae III
- Trebouxiophyceans, Green Algae IV
- Chlorophyceans, Green Algae V
- Charophyceans, Phytoplankton Ecology, Macroalgal and Periphyton Ecology.

Intended for those interested in learning the basics of algae

Book Information

Hardcover: 720 pages

Publisher: Benjamin Cummings; 2 edition (November 9, 2008)

Language: English

ISBN-10: 0321559657

ISBN-13: 978-0321559654

Product Dimensions: 8.1 x 1.2 x 10.1 inches

Shipping Weight: 3.2 pounds

Average Customer Review: 4.3 out of 5 stars 7 customer reviews

Best Sellers Rank: #378,947 in Books (See Top 100 in Books) #197 in [Books > Textbooks >](#)

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Customer Reviews

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 formation of harmful algae bloom; and how we utilize them. Provides a stimulating overview of the importance of algae. Covers biotic associations involving algae, with discussions on herbivory interactions, algal food quality, symbioses, pathogeneic interactions, and more. Considers the economic, ecological, and biotechnological applications of algae, and provides complete coverage on algal biodiversity, classification systems, molecular phylogenetics, and application of molecular information to ecological problems. Offers a detailed study on endosymbiosis. and includes intensive, stand-alone chapters on cryptomonads, dinoflagellates, ochrophytes, red algae, green algae, and phytoplankton ecology. Covers new analytical techniques (i.e. molecular phylogenetics, DNA-based approaches to the study of life cycles, and fluorescence methods for the study for photosynthesis); integrates many interesting boxed essays; and enhances material with numerous photos and illustrations. For researchers and professionals in the fields of aquatic ecology and technological application of algae. --This text refers to an out of print or unavailable edition of this title.

Linda E. Graham is Professor of Botany at the University of Wisconsin-Madison. She teaches a field and laboratory course on algal biology and serves as a consultant to governmental agencies and industry on issues related to algae in the environment or as a source of useful products and processes. Her research lab focuses on algal phylogeny and evolutionary links between green algae and land plants, aspects of algal physiology and ecological associations in freshwaters, and biotechnological applications of algae. Dr. Graham earned a bachelor's degree from Washington University in St. Louis, a master's degree from the University of Texas, and a Ph.D. from the University of Michigan. As a Ph.D. student, she also trained in marine algae at the Friday Harbor Labs operated by the University of Washington. Dr. Graham is a Fellow of the AAAS.

Ã 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. Dr. Wilcox designed the art programs for Algae and Plant Biology and has provided many original photographs for both texts. He has also contributed photographs and illustrations to a variety of scientific articles, book chapters, and textbooks.

This book is great in its organization and coverage of every major algal group in a decent amount of detail. It offers enough details of processes and always keeps the bigger picture of algae's importance in the earth's processes in sight. I am using this book in a small class completely devoted to algae where every student studies a different algal group or process, and we unanimously agree that this is a great book for the field. The only thing we found disappointing was that phosphorus cycling is not included in the biogeochemistry chapter, which is an unfortunate oversight considering the importance that nutrient plays in today's lakes and eutrophication. The pictures would be better in color because a lot of algae identification requires color. It is understandable that printing companies are trying to be more "green" in printing books that will only be used for three years before the next edition arrives, but they also take the opportunity to produce lesser quality paper and graphics without reducing the book price. is definitely the better place to buy this book - it was \$70 less than in the university bookstore! The business details aside, this is an excellent book and a must for any algae researcher.

Well presented book for basic information about the vast world of the algae. I learned something useful on every page. Accessible text.

This book has fundamentals of biology of algae with good references. I recommend this book for a class reference in phycology. The book is out of date in phylogeny, but it is noteworthy that phylogeny in phycology is very ambiguous.

I would have never believed that algae could be so interesting. All you need is a good book and an awesome professor(HPU) obsessed with algae(e.g. diatoms)! Ha ha! I'm absolutely hooked and loving it! My only thing that I don't like is that the pictures are not in color and I really feel that in this case color is very important for visualization. :)

This outstanding textbook on "algae" provides a solid reference for learning more about the diverse photosynthetic forms that occur in aquatic habitats. Graham and Wilcox summarize a diverse range

of topics for the major Divisions, including taxonomy, cell structure, biology, reproduction, life history, and ecology. It has an excellent section on coccolithophorids, including the steps in coccolith formation. It also includes practical uses of algae and chapters devoted to phytoplankton and seaweed ecology. The lack of color photographs may be attributed to the inclusion of numerous images taken with electron microscopes (the only way to "see" most microalgae) and probably to the fact that this book is not intended to be a field guide. However, it makes a perfect complement for learning more about and understanding phytoplankton and seaweeds that you may identify under a microscope or in the field using any of the widely available field guides.

Contains some great information, but the taxonomy and classification is, understandably, extremely out-of-date.

I haven't found many good books on algae that have come out in the past few years. This book is a great one with lots of information and pictures. It would be better if some of the pictures were in color, instead of all of them being in black and white. Some algae are identified by color so color pictures would be helpful. It has really good information on diatoms also which is nice.

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