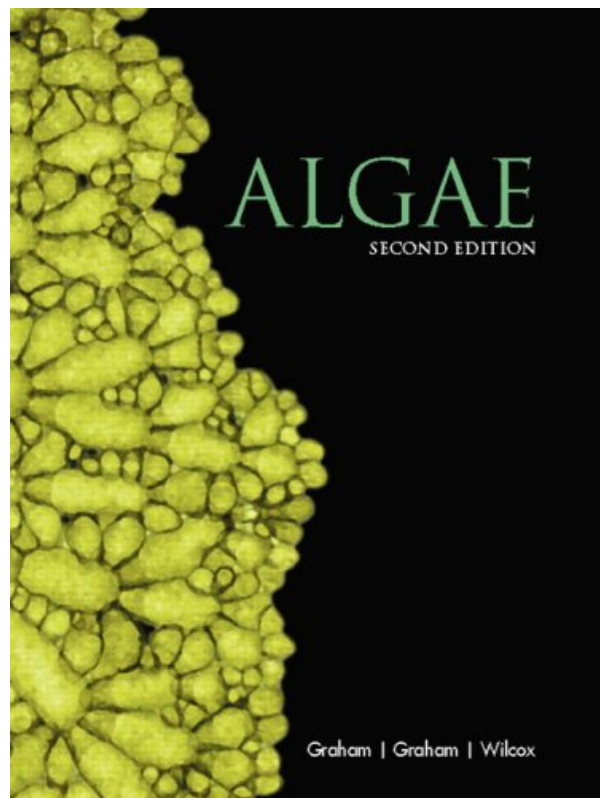
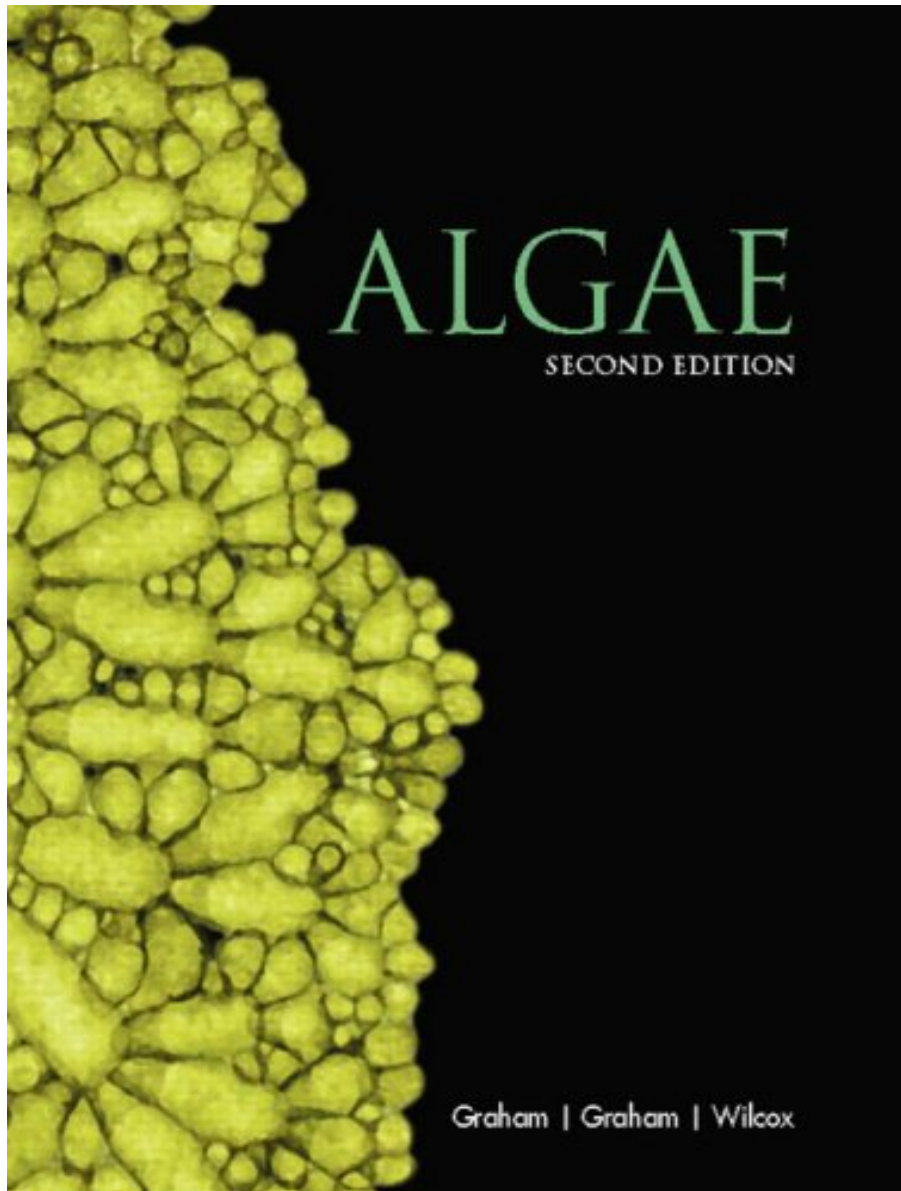


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Current, comprehensive, and readily accessible to all readers regardless of their knowledge on the subject, this information-packed resource on freshwater, marine, and terrestrial algae forms focuses on what people really want to know about algae—why 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, pathogenic 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.

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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. 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

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#### Most helpful customer reviews

24 of 25 people found the following review helpful.

Good reference book and learning tool

By A Customer

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 indentified by color so color pictures would be helpful. It has really good information on diatoms also which is nice.

8 of 8 people found the following review helpful.

A terrific reference ofor learning more about phytoplankton and seaweeds

By William Chamberlin

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.

5 of 5 people found the following review helpful.

Great Book for researcher

By Arsene Lupin

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. Amazon 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.

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