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Cole, G. A., and Weihe, P. E., Textbook of Limnology, 5th ed. Waveland Press, ISBN 10: 1478623071, ISBN 13: 9781478623076, 440 pages, \$74.95 list, © 2016 paperback Hey there, professor!

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The interdisciplinary nature of limnology requires lucid and well-integrated coverage of biology, chemistry, physics, earth science, and resource management. Paul Weihe skillfully accomplishes this objective in his revision of Gerald Cole's classic limnology text. This long-awaited revision introduces concepts in straightforward terms, replete with detailed examples, elegant illustrations, and up-to-date, well-researched documentation. Outstanding features of the fifth edition include:

- A global outlook with examples from every continent
- Discussions of the impact of environmental challenges (e.g., climate change, eutrophication, river regulation) with case studies of real-world examples
- A chapter devoted to wetlands
- A thorough examination of biogeochemistry, including recent anthropogenic alteration and a reconsidered understanding of stoichiometric relationships
- Expanded treatment of hydrology, utilizing empirical approaches to discharge determination and effects of land-use changes
- A reorganized presentation of biodiversity, explicitly correlating profiles of biota with community ecology and ecosystem function
- Updated taxonomy with a description of the new metagenomic approach, nomenclature strictly adhering to the intergovernmental Integrated Taxonomic Information System

Phycology is the study of algae, the primary photosynthetic organisms in freshwater and marine food chains. As a food source for zooplankton and filter-feeding shellfish, the algae are an extremely important group. Since the publication of the first edition in 1981, this textbook has established itself as a classic resource on phycology. This revised edition maintains the format of previous editions, whilst incorporating more recent information from nucleic acid sequencing studies. Detailed life-history drawings of algae are presented alongside information on the cytology, ecology, biochemistry, and economic importance of selected genera. Phycology is suitable for upper-level undergraduate and graduate students following courses in phycology, limnology or biological oceanography. Emphasis is placed on those algae that are commonly covered in phycology courses, and encountered by students in marine and freshwater habitats.

"The text is an introduction to the ecology, chemistry and physics of freshwater systems, with an emphasis on the human perspective"--Page [4] de couv.

The new edition of this established textbook, now with full colour illustration, has been extensively revised and continues to provide a comprehensive, stimulating, readable and authoritative coverage of freshwater habitats, their communities and their functioning, the world over. The work will be of great value to undergraduate and graduate students, fellow researchers and water managers, and the plain language and lack of jargon should make it accessible to anyone interested in the functioning and current state of lakes and rivers. Having taught and researched over fifty years and six continents, Professor Brian Moss makes here extensive use of his personal experience as well as the huge literature now available on freshwaters. This is the fifth edition of his textbook, which, since the first edition in 1980, has steadily evolved to reflect a rapidly changing science and environment. It places increasing emphasis on the role of people in damaging and managing freshwaters as we move into the Anthropocene epoch and face unprecedented levels of climate and other changes, whilst rejoicing in the fascination of what are left of near pristine freshwater ecosystems. Professor Moss retired from the University of Liverpool following a career in Africa, the USA and the UK. He was awarded medals by the International Society for Limnology, of which he was President from 2007 to 2013, and The Institute of Ecology and Environmental Management. He was given The Ecology Institute's Excellence in Ecology Prize in 2009 and the book written for that prize, *Liberation Ecology*, was awarded the British Ecological Society's best ecology book prize in 2013.

This book has been considered by academicians and scholars of great significance and value to literature. This forms a part of the knowledge base for future generations. So that the book is never forgotten we have represented this book in a print format as the same form as it was originally first published. Hence any marks or annotations seen are left intentionally to preserve its true nature.

To fulfill its commitment to clean water, the United States depends on limnology, a multidisciplinary science that seeks to understand the behavior of freshwater bodies by integrating aspects of all basic sciences--from chemistry and fluid mechanics to botany, ichthyology, and microbiology. Now, prominent limnologists are concerned about this important field, citing the lack of adequate educational programs and other issues. *Freshwater Ecosystems* responds with recommendations for strengthening the field and ensuring the readiness of the next generation of practitioners. Highlighted with case studies, this book explores limnology's place in the university structure and the need for curriculum reform, with concrete suggestions for curricula and field research at the undergraduate, graduate, and postdoctoral levels. The volume examines the wide-ranging career opportunities for limnologists and recommends strategies for integrating limnology more fully into water resource decision management. *Freshwater Ecosystems* tells the story of limnology and its most prominent practitioners and examines the current strengths and weaknesses of the field. The committee discusses how limnology can contribute to appropriate policies for industrial waste, wetlands destruction, the release of greenhouse gases, extensive damming of rivers, the zebra mussel and other "invasions" of species-- the broad spectrum of problems that threaten the nation's freshwater supply. *Freshwater Ecosystems* provides the foundation for improving a field whose importance will continue to increase as human populations grow and place even greater demands on freshwater resources. This volume will be of value to administrators of university and government science programs, faculty and students in aquatic science, aquatic resource managers, and clean-water advocates--and it is readily accessible to the concerned individual.

Limnology, stream ecology, and wetland ecology all share an interdisciplinary perspective of inland aquatic habitats. Scientists working in these fields explore the roles of geographic position, physical and chemical properties, and the other biota on the different kinds of plants and animals living in freshwaters. How do these creatures interact with each other and with their physical environment? In what ways have humans impacted aquatic habitats? By what methods do freshwater ecologists study these environments? With this new laboratory manual, Havel provides a variety of accessible hands-on exercises to illuminate key concepts in freshwater ecology. These exercises include a mixture of field trips, indoor laboratory exercises, and experiments, with some portions involving qualitative observations and others more quantitative. With the help of this manual, students will develop an appreciation for careful techniques used in the laboratory and in the field, as well as an understanding of how to collect accurate field notes, keep a well-organized lab notebook, and write clear scientific reports.

Written from an ecosystem perspective, this user-friendly and thorough book discusses, without the use of jargon, events that happen below the waterline of lakes, rivers, and wetlands and links them back to the attributers of the drainage basins, the overlying atmosphere and climate, which have a major impact on inland waters and their biota. It also contains a large number of easy-to-comprehend figures and tables that reinforce the written material and provide evidence for statements made. The focus on how fundamental limnology applies to environmental management and conservation shows readers that fundamental science can (and does) make a major contribution to solving

environmental problems. Chapters 1 and 2 provide a background and history of limnology. Patterns are based on data and photos from all over the world. Emphasis placed on the role of drainage basins, the atmosphere, contaminants, weather and climate — in determining the function of aquatic systems. Chapters on acidifying precipitation, organic and trace metal contaminants, and reservoirs integrates the individual topics discussed in the different chapters by bringing it to bear on three major environmental issues. Emphasis on the importance of the spatial, temporal, and interval scales over which research is carried out and conclusions are drawn and the difficulty of “scaling up” findings. For further study by those with limnology or aquatic management and conservation

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