

Handbook of Inland Aquatic Ecosystem Management

"The authors present the subject in such way that the reader will learn not only fundamentals of limnology but also the behavior of lakes and reservoirs both from a physicochemical and an ecosystemic point of view. The book relies on several examples from projects developed by the authors on the ground. This is something that professionals working in this field will benefit significantly from ..."

—BENEDITO BRAGA, Polytechnic School of the University of São Paulo, Brazil

Combining background knowledge and practical tools, **Handbook of Inland Aquatic Ecosystem Management** gives you an overview of how to manage inland waters in a holistic manner. It examines the problems that threaten aquatic inland water ecosystems and presents a set of toolboxes for solving them. The book focuses on lakes, reservoirs, ponds, rivers, wetlands, lagoons, and estuaries, covering both freshwater and saline or brackish ecosystems.

The first part of the book reviews the basic scientific knowledge needed in the environmental and ecological management of aquatic ecosystems, from limnology and ecology of inland water ecosystems to environmental physics and chemistry. The second part of the book presents toolboxes that you can apply to achieve more holistic environmental and ecological management. These include toolboxes to help you identify the problem—namely, mass balances, ecological indicators, and ecological models—as well as toolboxes to help you find a solution, including environmental technology, cleaner technology, and ecotechnology.

This handbook helps you integrate biology, ecology, limnology, and chemistry with the toolboxes in an up-to-date, multidisciplinary approach to environmental management. It provides a powerful framework for identifying ecological mechanisms that interact with global environmental problems threatening inland aquatic ecosystems.



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