



Hydro-Environmental Analysis: Freshwater Environments

By James L. Martin

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Hydro-Environmental Analysis: Freshwater Environments By James L. Martin

Focusing on fundamental principles, **Hydro-Environmental Analysis: Freshwater Environments** presents in-depth information about freshwater environments and how they are influenced by regulation. It provides a holistic approach, exploring the factors that impact water quality and quantity, and the regulations, policy and management methods that are necessary to maintain this vital resource. It offers a historical viewpoint as well as an overview and foundation of the physical, chemical, and biological characteristics affecting the management of freshwater environments.

The book concentrates on broad and general concepts, providing an interdisciplinary foundation. The author covers the methods of measurement and classification; chemical, physical, and biological characteristics; indicators of ecological health; and management and restoration. He also considers common indicators of environmental health; characteristics and operations of regulatory control structures; applicable laws and regulations; and restoration methods.

The text delves into rivers and streams in the first half and lakes and reservoirs in the second half. Each section centers on the characteristics of those systems and methods of classification, and then moves on to discuss the physical, chemical, and biological characteristics of each. In the section on lakes and reservoirs, it examines the characteristics and operations of regulatory structures, and presents the methods commonly used to assess the environmental health or integrity of these water bodies. It also introduces considerations for restoration, and presents two unique aquatic environments: wetlands and reservoir tailwaters.

Written from an engineering perspective, the book is an ideal introduction to the aquatic and limnological sciences for students of environmental science, as well as students of environmental engineering.

It also serves as a reference for engineers and scientists involved in the management, regulation, or restoration of freshwater environments.

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Hydro-Environmental Analysis: Freshwater Environments By James L. Martin Bibliography

- Sales Rank: #3074466 in Books
- Published on: 2013-12-04
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x 1.34" w x 7.00" l, 3.00 pounds
- Binding: Hardcover
- 567 pages



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Editorial Review

About the Author

James Lenial Martin is professor of civil engineering in the Department of Civil and Environmental Engineering at Mississippi State University. His degrees include a bachelor of science in wildlife science from Texas A&M, a bachelor of science in civil engineering from Texas A&M, a master of science in biology from Southwest Texas State University, and a PhD in Civil and Environmental Engineering from Texas A&M. He has more than 30 years of experience conducting and managing water quality modeling projects and developing and applying models of hydrodynamics and water quality. He has authored/coauthored over 100 technical reports and publications.

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