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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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