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Autore	Xu Haoqing
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Nota di contenuto	Assessing the drinking water quality indexes of borehole and surface water close to a mining dump in Welkom, South Africa -- Small watersheds based on game theory comprehensive weight method Flash flood disaster risk assessment -- Monitoring of emerging contaminants in selected wastewater treatment works around Bloemfontein, South Africa: initiative for environmental protection -- Effects of Mitigation Scenarios on Water Quality under Drought-Flood Abrupt Alternation -- Water Quality Assessment and Spatial Analysis of River System in Suburban area of Hangzhou, China -- Role of Virtual Water within Generalized Trade Framework -- Algae-bacterial aerobic granular sludge for surfactantladen saline industrial wastewater treatment: A sustainable approach -- Flows with return of water turbined by a hydroelectric power plant in a transfer receiving basin using WEAP -- Application of Image Processing Technology in the Identification of Sediment Dosing andFlocculation Process -- Photocatalytic Activity of

Metal-Doped MgO Nanoparticles for Dye Removal with Cost Estimation.

Sommario/riassunto

This book is designed to be the introductory work in the Water-Energy-Environment-Governance from Interdisciplinary Perspectives Series and provides an in-depth look at sustainable development and management in the water sector across. The water-energy-environment nexus (WEEN) represents important interstate connections of water, energy, and the environment. Present day water and energy systems are interdependent. Water is used in all phases of energy production and electricity generation. Energy is required to extract, convey, and deliver water of appropriate quality for diverse human uses and then again to treat waste waters prior to their return to the environment. Security in water, energy, and the environment is associated with human, economic, and environmental sustainability. This interweaving is strengthening under aggregating natural resource scarcity and climate change. This book includes selected papers from the 6th International Symposium on Water Resource and Environmental Management (WREM 2023) and consists of themes pertaining to water resource and environmental management. It provides readers with comprehensive information, and formulation of solutions leading to a set of Water-Energy-Environment-Governance from Interdisciplinary Perspectives through our forum and the publication of your research. As a reference, it is of interest to students, scientists, engineers, government officials, and water resource managers.