Artificial Intelligence Applications in Water Treatment and Water Resource Management

Part of the Advances in Environmental Engineering and Green Technologies Book Series

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Description:

The emergence of a plethora of water contaminants as a result of industrialization has introduced complexity to water treatment processes. Such complexity may not be easily resolved using deterministic approaches. Artificial intelligence (AI) has found relevance and applications in almost



all sectors and academic disciplines, including water treatment and management. Al provides dependable solutions in the areas of optimization, suspect screening or forensics, classification, regression, and forecasting, all of which are relevant for water research and management.

Artificial Intelligence Applications in Water Treatment and Water Resource Management explores the different AI techniques and their applications in wastewater treatment and water management. The book also considers the benefits, challenges, and opportunities for future research. Covering key topics such as water wastage, irrigation, and energy consumption, this premier reference source is ideal for computer scientists, industry professionals, researchers, academicians, scholars, practitioners, instructors, and students.

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Topics Covered:

Artificial Intelligence Energy Consumption Evaporation Hydrological Cycle Irrigation Machine Learning Water Cycle Water Resource Management Water Treatment Water Wastage

Subject: Environmental, Agricultural, and Physical Sciences	Classification: Edited Reference
Readership Level: Advanced-Academic Level (Research Recommended)	Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

