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Nota di contenuto	Salinity intrusion in the Vietnamese Mekong Delta, a threat: possible causes, effects on people's life and production, and temporary solutions and adaptable strategies -- Improved stochastic fractal search algorithm for joint optimal operation of cascade hydropower stations -- Regional Hydrological Model with Global Climate Change of Mean Annual Flows of the Santa River Basin, Applying the Fokker-Planck-Kolmogorov Equation -- Numerical modeling of tsunami in the city of Chorrillos, Lima – Peru -- Evaluation and correction of rainfall forecast by WRF model in the upper reaches of the Yangtze River -- Research and Application of Spatio-temporal Data Model of Water Supply Network Inspection System -- Rapid Development of Online Hydraulic Model Calculation System Based on EPANET Source Code and ArcObjects -- Sprinkler Irrigation Atomization in Relation to Water Surface Tension: A New Laboratory Technique to Investigate Pesticides and Fertilizers Effect on Irrigation Drop Size -- A Volterra Process

Model for River Water Temperature -- Solubilization of polycyclic aromatic hydrocarbon mixtures in conventional and gemini surfactant solutions -- A sustainable strategy for petrochemical wastewater treatment via anaerobic co-digestion -- Coagulation/flocculation treatment of carwash wastewater using natural-based material: Asustainable development approach -- Phytoremediation of Textile Wastewater using Water Hyacinth(*Eichhornia crassipes*): A Sustainable Development Approach -- Synthesis of carbonized bagasse and orange peel wastes as adsorbents for dye removal from aqueous solution: A sustainable approach -- An economic evaluation of integrated desalination systems using Pressurized Water Reactor (PWR) -- Policy of the Republic of Bulgaria in the Field of Natural and Environmental Disasters -- Innovative approaches to reduce the level of environmental pollution from bus transport in Sofia, Bulgaria -- Applications of DSF as Renewable Source Energy Savings in a Small Detached Family House Prototype -- Thermal Engineering Applications in Forest Fire Environments -- Airflow Inside of a Virtual Room Integrating a Vertical Confluent Jets Ventilation System -- Integration selective lithium exchange membrane and diffusion dialysis to recover lithium ions in brine water -- Using thermal desorption technique to treat real field diesel oil-contaminated soils -- Experiment and simulation of mobile underwater dredger fill in- layers technology in open water.

Sommario/riassunto

This book of ICSDWE2022 aims to advance the understanding of both the fundamentals of related fields in sustainable development of water and environment and its application to the solution of challenges and problems in engineering. The committee of ICSDWE2022 gathers scholars and experts in related fields both at home and abroad. Under the guidance of the committee, we are confident to the publication of high-quality papers on all aspects of water and environment. The book features graduate-level texts and professional books in related fields. We hope that most scholars, researchers, and engineers can find what they really need in our book.
