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Nota di contenuto	Part I: Emerging Pollutants and Anthropocene -- Review on Occurrence and Toxicity of Pharmaceutical Contamination in Southeast Asia Water Resilience to Natural and Human Disasters -- Two Sides of a Coin: Targets and by-Products of Water and Wastewater Treatment Water Supply, Urbanization and Climate Change -- Water Quality Under the Changing Climatic Condition: A Review of the Indian Scenario -- A Review on Antibiotic Resistance Gene (ARG) in Wastewater Treatment

Plant and ARG Detection In WWTP in Ishikawa, Japan and Colombo, Sri Lanka -- Part II: 2 Surface and Groundwater Quality Issues -- Nutrient Exchange at Water and Sediment Interface of the Largest Brackish Water Lagoon (Chilika), South Asia Analytics in Water Resource -- Determination of Anthropogenic Sources in the Groundwater Chemistry Along KT Boundary of South India -- Hydro Geochemical Investigation and Health Perspective of Arsenic in the Mid-Brahmaputra Floodplain of Assam, India -- Assessment of the Land-Use Pattern Changes and Its Impact on Groundwater Quality in Parts of the National Capital Region (NCR) Delhi, India -- Assessment of Water Quality Using Multivariate Analysis - A Case Study on the Brahmaputra River, Assam, India -- Geochemical Modelling of Groundwater Using Multivariate Normal Distribution (MND) Theory -- Part III: Remediation and Perception Issues -- Performance Appraisal of Filter-Based Sanitation System for Onsite Treatment of Domestic Wastewater -- Lake Eutrophication: Causes, Concerns and Remedial Measures -- Role of Phytoremediation Strategies In Removal of Heavy Metals -- Phytoremediation of Heavy Metals/Metalloids by Native Herbaceous Macrophytes of Wetlands: Current Research and Perspectives -- Part IV: Management Strategies Issues -- Water Management: Effects on Human Health and Nutrition -- Water Scarcity and Land Degradation Nexus in the Era of Anthropocene: Some Reforms to Encounter the Environmental Challenges for Advanced Water Management Systems Meeting the Sustainable Development -- Groundwater Contamination Issues in the Shallow Aquifer, Ramganga Sub-Basin, India -- Water Governance: A Pragmatic Debate Of 21st Century; An Indian Perspective.

Sommario/riassunto

This book intends to bring together and integrate the subject matter of water quality. The book covers aspects of water related to climate change, emerging aspects of engineering sciences, bio-geochemical sciences, hydro geochemistry, river management and morphology, social sciences, and public policy. The book covers the role of disruptive innovations in water management, policy formation and impact mitigation strategies. The book includes lab results as well as case studies. It provides recommendations and solutions for policy making and sustainable water management. The chapters in this book deal cohesively with many aspects of the water environment during the Anthropocene era. The contents cover myriad issues, such as land degradation, water scarcity, urbanization, climate change, and disruptive innovation. The book also discusses issues highly pertinent to society and sustainability, such as the prevalence of enteric viruses and pharmaceutical residues as a possible anthropogenic markers in the aquatic environment. The book will prove useful for students, professionals, and researchers working on various aspects of water related concerns.
