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Nota di contenuto	3D Geological and Hydrogeological Modelling – Integrated Approaches in Urban Groundwater Management -- Long-term Saltwater Intrusion Modelling – Case Studies from North Africa, Mexico and Halle -- Hydrogeochemical Characterisation and Evaluation of Seasonal Variation in Groundwater Chemistry in Upper Panda River Basin, India -- Assessment of Groundwater Vulnerability in the Borazjan Aquifer of Bushehr, South of Iran, Using GIS Technique -- Geochemical Variations

of Groundwater Quality in Coastal and Karstic Aquifers in Jaffna Peninsula, Sri Lanka -- Water in Ancient Indian Perspective and Ponds of Varanasi as Water Harvesting Structures -- Glacier Mass Balance and Its Significance on the Water Resource Management in the Western Himalayas -- Seasonal Variations and Flux of Arsenic in Gomati River, Ganga Alluvial Plain, Northern India -- Stable Isotopic Signatures for Hydrogeochemical Characterisation of Ground Water from Pondicherry to Nagapattinam, Tamil Nadu -- Assessment of Hydrochemical Evolution of Ground Water through Silica Geothermometry in a Part of Ganga Basin -- Electrical Resistivity Survey for Groundwater Investigation at Sumbli of Jammu District (J&K) -- Isotopic-Chemical Framework of Groundwater Aquifer to Study the Pollution Dynamics at Delhi, India -- Helium and Natural Gas Anomalies in Tubewells around Southern Fringes of Bundelkhand Region, Sagar-Damoh District, Madhya Pradesh, India -- Production of Renewable Energy and Waste Water Management from Vetiver Grass -- Replacing Conventional Fuels through Biogas for Mitigating the Threats related to Climate Change in India: A State-wise Assessment for Emission Reduction -- Chronic Arsenicosis Induced Oxidative Stress in Cattle: Role of Zn and Se -- Macro-benthos Diversity in a Headwater Stream Affected by Tea and Paddy Agricultural Runoff, Sri Lanka -- Bioremediation and Detoxification of Xenobiotic Organic Compounds in Landfill Leachate by Pseudomonas sp. ISTDF1 -- Identifying Knowledge Gaps in Assessing Health Risks due to Exposures of Nanoparticles from Contaminated Edible Plants -- Conservation Issues and Possible Solutions for Sustainability of Faunal Diversity of Arunachal Pradesh.- Ambient Noise Levels after CNG Implementation in Transport Sector in Delhi -- Transport of Lindane through Soil Column -- Effect of Ozone on Biotic Stress Tolerance Potential of Wheat -- Isolation and Characterization of Thermo-alkalotolerant Bacillus sp. Strain ISTS2 for Carbon Dioxide Sequestration -- Carbon Footprints of Rice Cultivation under Different Tillage Practices in Rice-wheat System -- Trend Analysis of Rainfall in Two Contrasting Regional Environments -- Regional Climate Modelling over the Himalayas.- Assessment of Trace Element Distribution in Red-bloom (E. shafiqii) and Water of Dal Lake, Kashmir Valley, by Total Reflection X-ray Fluorescence Spectrometry.

Sommario/riassunto

Given our rapidly growing population, the need for judicious management of essential natural resources is becoming a major challenge for planners, managers and scientists/researchers. This book presents a multidisciplinary approach to managing water, energy and bio-resources, described in papers contributed by distinguished scientists and academics working at reputed universities and institutions around the globe. It includes 28 chapters grouped into three sections: Water Resources Management; Energy and Bio-resources Management; and Climate and Natural Resources Management, examining case studies from all over the world. These contributions address current challenges, offering modern techniques for managing these resources in various geographical regions. This volume will provide a valuable asset for researchers and students, managers, environmentalists, hydrologists, water resource and energy managers, governmental and other regulatory bodies dealing with water, energy and bio-resources.