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Nota di contenuto	Message from Alexander von Humboldt Foundation -- Foreword -- Preface -- About the Editors -- Hydro-geochemical Investigation and Quality Assessment of Groundwater for Drinking and Agriculture Use in Jawaharlal Nehru University (JNU), New Delhi, India.- Comparison of Relationship Between the Concentrations of Water Isotopes in Precipitation in the Cities of Tehran (Iran) and New Delhi (India) -- Geophysical Expression for Groundwater Quality in Part of Chittoor District, Andhra Pradesh, India -- Geospatial Analysis of Fluoride Contamination in Groundwater of Southeastern Part of Anantapur

District, Andhra Pradesh -- Identification of Surface Water Harvesting Sites for Water Stressed Area Using GIS: A Case Study of Ausgram Block, Burdwan District, West Bengal, India -- Forecasting Groundwater Level Using Hybrid Modelling Technique -- Alterations in Physico-chemical Parameters of Water and Aquatic Diversity at Maneri-Bhali Phase I Dam Site on River Ganges in District Uttarkashi, Uttarakhand -- Effective Removal of Heavy Metals and Dyes from Drinking Water Utilizing Bio-compatible Magnetic Nanoparticle -- UASBR: An Effective Wastewater Treatment Option to Curb Greenhouse Gas Emissions -- Biogas Upgrading and Bottling Technology for Vehicular and Cooking Applications -- Use of Indigenous Bacteria from Arsenic Contaminated Soil for Arsenic Bioremediation -- Adsorption of Arsenite and Fluoride on Untreated and Treated Bamboo Dust -- Reducing the Toxicity of Carbon Nanotubes and Fullerenes Using Surface Modification Strategy -- Phytoremediation Study and Effect of pH on Biomass Productivity of *Eichhornia crassipes* -- Regeneration of White Oak (*Quercus leucotrichophora*) in Two Pine Invaded Forests in Indian Central Himalaya -- Human Health Risk Assessment of Heavy Metals from Bhalaswa Landfill, New Delhi, India -- Transport of Trace Metals by the Rainwater Runoff in the Urban Catchment of Guwahati, India -- Analysis of Leachate Characteristics to Study Coal Ash Usability -- Air Pollution Mapping and Quality Assessment Study at an Urban Area Tirupati Using GIS -- Environmental Hazards and Conservation Approach to the Biodiversity and Ecosystem of the St. Martin's Island in Bangladesh -- Uranium Toxicity in the State of Punjab in North-Western India -- Fluoride Toxicity in the Fluoride Endemic Villages of Gaya District, Bihar, India -- Index.

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#### Sommario/riassunto

This book addresses issues related to sources of groundwater pollution such as arsenic, uranium, fluoride and their effects on human health. It discusses extensively the removal of heavy metals, arsenic and fluoride from drinking water. Bioremediation and phyto remediation on biomass productivity are treated in several chapters in the book. The volume highlights leachate characteristics analysed both in the laboratory and in field studies assessing the trace metals in rainwater. This book is a study on the judicious management of natural resources and exposes environmental problems particularly those related to pollution and bioremediation.

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