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Nota di contenuto	Remote sensing in water resource monitoring A comprehensive review on monitoring the quality and quantity of the water resources using remote sensing applications -- Assessment of Vegetation Dynamics of Paddy Crop using”TIMESAT” and Remote Sensing & GIS Techniques in Command Areas -- Assessment of River Water Dynamics and Optically Active Water Quality Parameters over Punjab, Based on Cloud Computing -- Analysis of land use/land coverchange and its impact on 2021 Chiplun Flood, Maharashtra, India -- Flood Disaster Hazards: A State-of-the-Art Review of Causes, Impacts, and Monitoring -- Impact of Land Use Systems and Climate Change on Water Resources: Indian Perspectives -- Seawater Intrusion Mapping along Penneru River Basin Area, SPS Nellore District, Andhra Pradesh – A Case Study -- Flood detection and Flood Mapping using Multi-temporal Synthetic Aperture Radar and Optical data -- Climate Change and Its impact -- Impact of land use changes on water resource: Assessment through Remote Sensing -- Vulnerability to Climate Change in different sectors of Lugvalley, Kullu district of Himachal Pradesh -- Assessment of Groundwater level and fluctuations using Geospatial Techniques in Nambiyar Watershed, South India -- River Flood Monitoring and

	Management: A Review -- Evaluation of Groundwater Quality for Irrigation-A Case Study of West Godavari District of Andhra Pradesh -- Interactions of Hydrological Parameters and the Effects on Perennial Riverbanks of the Indo-Bhutan Region in Eastern Himalaya -- Ecosystem Services in the Riverine Landscapes -- Evaluation of Morphometric Analysis of Kharag River basin, Odisha using Geospatial Techniques.
Sommario/riassunto	Sustainable water resources planning deals with the interface of water resources science and the needs of human populations. It highlights works that addresses practical methods and basic research in, for example: quantity and quality management of groundwater and surface water resources; sustainability of water resources and water availability; water use and reuse including managed aquifer recharge and storage; geopolitical and socio-economic aspects of water resource management; water development and human activity impacts on ecological systems and human health, including, for instance, agricultural and climatic impacts, subsurface waste storage and injection, geothermal energy development and subsurface energy storage. This book provides up-to-date systematic and scientific analyses of such water problems and suggests sustainable measures to overcome them through effective surface and sub-surface water resource management. It is immensely valuable to students, researchers, water resource managers, hydrologists and all those who are engaged or interested in any aspect of river water conservation and management of water resources.