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Nota di contenuto	Section I -- General -- Chapter 1 Introduction to Space Technology: Challenges, Potential and Future Trends -- Section II Challenges in Geospatial Technology for Water Resources Management -- Chapter 2 Natural Resource Assessment in Flood Prone Areas of Lower Rapti River Valley: An Application of Geoinformatics -- Chapter 3 Probabilistic Landslide Hazard Vulnerability assessment using weight-of-evidence model along the Koti -Syansu highway corridor, Tehri Garhwal (India) -- Chapter 4 Monitoring of Seasonally Variability and Movement of Suspended Sediment Concentration along Thiruvananthapuram Coast using OLI Sensor -- Chapter 5 Remote Sensing based Hazard Assessment of Glacial lakes in Changme Khangpu Valley, Sikkim Himalaya -- Section III Geotechnical Engineering & Applied Earth Sciences -- Chapter 6 Estimation of Urban Population Dynamics using DMSP-OLS Night-time Lights Time Series Sensors Data -- Chapter 7 Modelling the Luminous Intensity of Beijing, China using DMSP-OLS

Night-Time Lights Time Series Sensors Data -- Chapter 8 Drought Hazard Analysis over India Applying Multivariate Technique for Composite Indicators -- Chapter 9 The Built Surroundings Induced Urban Heat Island Consequence in speedily Urbanizing Sub-Humid Region using Geospatial Approach -- Section IV Space Technology Potential and Grand Challenges -- Chapter 10 Modeling the Electric Demand using of Spatiotemporal DMSP-OLS and Socio-economic Data for the Sustainable Management and Planning in India -- Section V Space Science in the Twenty-First Century.

Sommario/riassunto

This book advances the scientific understanding and application of space-based technologies to address a variety of areas related to sustainable development; including environmental systems analysis, environmental management, clean processes, green chemistry, and green engineering. Geo-spatial techniques have gained considerable interest in recent decades among the earth and environmental science communities for solving and understanding various complex problems and approaches towards sustainable technologies. The book encompasses several scopes of interests on sustainable technologies in areas such as water resources, forestry, remote sensing, meteorology, atmospheric and oceanic modeling, environmental engineering and management, civil engineering, air and environmental pollution, water quality problems, etc. The book will appeal to people with an interest in geo-spatial techniques, sustainable development and other diverse backgrounds within earth and environmental sciences field.