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Nota di contenuto	Land Use/Land Cover Monitoring and Geospatial Technologies: An Overview -- Using Remote Sensing to Map and Monitor Water Resources in Arid and Semi-Arid Regions -- Imaging Spectrometry of Inland Water Quality in Italy Using MIVIS: An Overview -- Using Remote Sensing to Assess the Impact of Human Activities on Water Quality: Case Study of Lake Taihu, China -- Remote Sensing for Regional Lake Water Quality Assessment: Capabilities and Limitations of Current and Upcoming Satellite Systems -- Interactive Geospatial Analysis Tool for Estimating Watershed-Scale Consumptive Use: Potomac River Basin Case Study -- Advances in Water Sensor Technologies and Real-Time Water Monitoring -- Instrumenting Caves to Collect Hydrologic and Geochemical Data: Case Study from James Cave, Virginia -- Principles for the Development of Contemporary Bioassessment Indices for

	Freshwater Ecosystems -- Microbial Source Tracking – Advances in Research and a Guide to Application.
Sommario/riassunto	This volume offers concepts, methods and case studies of innovative and evolving technologies in the area of watershed assessment. Topics discussed include: (1) Development and applications of geospatial, satellite imagery and remote sensing technologies for land monitoring; (2) Development and applications of satellite imagery for monitoring inland water quality; (3) Development and applications of water sensor technologies for real-time monitoring of water quantity and quality; and (4) Advances in biological monitoring and microbial source tracking technologies. This book will be of interest to graduate students and researchers involved in watershed science and environmental studies. Equally, it will serve as a valuable guide to experts in government agencies who are concerned with water-availability and water-quality issues, and engineers and other professionals involved in the design of land- and water-monitoring systems.