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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Section I. Remote sensing observations and estimations -- Section II. Modeling, data assimilation, and analysis -- Section III. Hydrologic capacity building for improved societal resilience.
Sommario/riassunto	Environmental remote sensing plays a critical role in observing key hydrological components such as precipitation, soil moisture, evapotranspiration and total water storage on a global scale. As water security is one of the most critical issues in the world, satellite remote sensing techniques are of particular importance for emerging regions which have inadequate in-situ gauge observations. This book reviews multiple remote sensing observations, the application of remote sensing in hydrological modeling, data assimilation and hydrological capacity building in emerging regions.