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Soggetti	Coasts Remote sensing Marine sciences Fresh water Environmental geology Environmental engineering Biotechnology Environmental management Coastal Sciences Remote Sensing/Photogrammetry Marine & Freshwater Sciences Geoecology/Natural Processes Environmental Engineering/Biotechnology Environmental Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Part I Remote Sensing, Mapping and Survey of Coastal Biophysical Environments -- Remote Sensing of Coastal Ecosystems and Environments -- Advanced Techniques for Mapping Biophysical Environments on Carbonate Banks Using Laser Airborne Depth

Sounding (LADS) and IKONOS Satellite Imagery -- Terrestrial Laser Scanner Surveying in Coastal Settings -- Advances in Applied Remote Sensing to Coastal Environments Using Free Satellite Imagery -- Remote Sensing and Modeling of Coral Reef Resilience -- An Assessment of Physiographic Habitats, Geomorphology and Evolution of Chilika Lagoon (Odisha, India) Using Geospatial Technology -- Foreshore Applications of X-band Radar -- Part II Advances in the Study and Interpretation of Coastal Oceans, Estuaries, Sea-Level Variation and Water Quality -- Digital Ocean Technological Advances -- A New Statistical-Empirical Hybrid Based Model to Estimate Seasonal Sea-Level Variation in the Gulf of Paria from River Discharge -- Advances in Modeling of Water Quality in Estuaries -- Advances in Video Monitoring of the Beach and Near shore – The Long-Term Perspective -- Advances in Application of Remote Sensing Techniques to Enhance the Capability of Hydrodynamic Modeling in Estuary -- Part III Advances in Coastal Modeling Using Field Data, Remote Sensing, GIS and Numerical Simulations -- Developments in Salt Marsh Topography Analysis Using Airborne Infrared Photography -- Examining Material Transport in Dynamic Coastal Environments: An Integrated Approach Using Field Data, Remote Sensing and Numerical Modeling -- Simulated Management Systems Developed by the Northern Gulf Coastal Hazards Collaboratory (NG-CHC): An Overview of Cyber infrastructure to Support the Coastal Modeling Community in the Gulf of Mexico -- Advancement of Technology for Detecting Shoreline Changes in East Coast of India and Comparison with Prototype Behavior -- Advances in Remote Sensing of Coastal Wetlands: LiDAR, SAR and Object-Oriented Case Studies from North Carolina -- Part IV Advances in the Management of Coastal Resources Using Remote Sensing Data and GIS -- Numerical Simulations and Satellite Remote Sensing as Tools for Research and Management of Marine Fishery Resources -- Identifying Suitable Sites of Shrimp Culture in Southwest Bangladesh Using GIS and Remote Sensing Data -- A Multi-Criteria Approach for Erosion Risk Assessment Using a New Concept of Spatial Unit Analysis, Wave Model and High Resolution DEMs.

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#### Sommario/riassunto

This book is geared for advanced level research in the general subject area of remote sensing and modeling as they apply to the coastal marine environment. The various chapters focus on the latest scientific and technical advances in the service of better understanding coastal marine environments for their care, conservation, and management. Chapters specifically deal with advances in remote sensing coastal classifications, environmental monitoring, digital ocean technological advances, geophysical methods, geoacoustics, X-band radar, risk assessment models, GIS applications, real-time modeling systems, and spatial modeling. Readers will find this book useful because it summarizes applications of new research methods in one of the world's most dynamic and complicated environments. Chapters in this book will be of interest to specialists in the coastal marine environment who deal with aspects of environmental monitoring and assessment via remote sensing techniques and numerical modeling.

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