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Remote Sensing of Coastal Aquatic Environments ... This book provides extensive insight on remote sensing of coastal waters from aircraft and space-based platforms. The primary focus of the book is optical remote sensing using passive instruments, to measure and analyze the coastal aquatic environment. The authors have gathered information...

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Remote Sensing of Coastal Ecosystems | NASA Applied Sciences Remote sensing of coastal and marine ecosystems, playing a key role in the ecological functions of these environments. Surveys of macrophyte communities are commonly hindered by logistic problems, and remote sensing represents a powerful alternative, allowing comprehensive assessment and monitoring.

Remote sensing of aquatic vegetation: theory and ... The recent availability of aerial hyperspectral imagery time series (e.g. AVIRIS, AVIRIS-NG, unmanned aerial vehicle sensors), high band count, narrow band multispectral sensors (e.g. Sentinel-3 OLCI), and nascent spaceborne hyperspectral sensors (Surface Biology and Geology Designated Observable) may revolutionize the monitoring of coastal and aquatic habitats and provide insights on the spatial and temporal patterns of a variety of important processes.

Remote Sensing | Special Issue : Hyperspectral ... Ocean color, defined as the spectral distribution of reflected visible solar radiation upwelling from beneath the water surface, has revolutionized the field of aquatic remote sensing research. The applications of ocean color remote sensing are extensive and fundamental to understanding and monitoring both marine and freshwater ecosystems.

LandSat Provisional Aquatic Reflectance
As remote sensing observation technology develops, more accurate observational data of the coastal regions, lands, lakes, rivers, and watersheds are available, which provide an effective approach to monitoring the Earth system environment in real-time with high accuracy.

Remote Sensing | Special Issue : Remote Sensing of Coastal ...
The above-water method and the in-water method are two methods to measure the apparent optical properties of water body. The above-water method has more potential in measuring turbid near-shore water. This paper summarizes two methods for estimating remote sensing reflectance by above-water method.

Remote Sensing of the Ocean, Sea Ice, Coastal Waters, and ...
LIadar remote sensing has been used in shallow coastal water research since the end of 1960s as was mentioned above. As an example, Wang and Philpot (2007) produced maps of sand, continuous seagrass, and discontinuous seagrass ranging from the depth of 0.8 to 4.3 m from a single LiDAR flightline with limited in situ information.

Remote sensing of shallow waters - A 50 year retrospective ...
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NASA Webinar: Remote Sensing on Coastal Ecosystems - Regions4
This will include a brief overview of data products used for water quality monitoring, an overview of aquatic remote sensing-specific criteria, methods and best practices, obtaining NASA Earth observation data for water quality monitoring, and practical skill building in image processing for water quality monitoring of coastal and larger inland water bodies.

Integrating Remote Sensing into a Water Quality Monitoring ...
Thanks to Remote Sensing, the coastal area can be monitored to assess the health and integrity of the area and to prevent catastrophic flooding of cities and loss of lives. The potential of water and coast Coastal zones, inland lakes, estuaries and rivers have a large potential for different uses.

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