

REMOTE SENSING OF COASTAL ENVIRONMENTS

As coastal environments around the world continue to face unprecedented natural and anthropogenic threats, recent developments in the technologies that support geospatial data acquisition, imaging, and computing have profoundly enhanced monitoring capabilities in coastal studies. Providing systematic treatment of the key developments, **Remote Sensing of Coastal Environments** brings together renowned scholars to provide a clear presentation of the state-of-the-art in this technically complex arena.

Edited by a recipient of the prestigious PECASE award, this book provides unrivaled coverage of the issues unique to coastal environments. It presents the best available data for measuring and monitoring coastal zones and explains how decision makers and resource managers can use this data to address contemporary issues in coastal zone management. The text illustrates the latest developments in active remote sensing, hyperspectral remote sensing, high spatial resolution remote sensing, the integration of remote sensing and *in situ* data, and covers the effects of land cover and land-use change on coastal environments. Complete with representative case studies, this authoritative reference

- Details cutting-edge technologies in coastal management and resource mapping
- Includes literature reviews of basic concepts and methodologies
- Addresses issues unique to coastal components including shoreline change, morphologic and volume changes, land cover change in coastal zones, and the mapping of coastal habitats of salt marsh, mangrove, wetlands, and seagrass beds

Based on the work of expert scientists, this forward looking resource provides a timely snapshot of the wide range of remote sensing applications in coastal issues to enhance the understanding of how increasing disturbances to our coastal regions are affecting the ecological dynamics, biological diversity, and ecosystem health of coastal environments around the world.



CRC Press

Taylor & Francis Group
an Informa business

www.crcpress.com

6000 Broken Sound Parkway, NW
Suite 300, Boca Raton, FL 33487

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New York, NY 10016

2 Park Square, Milton Park
Abingdon, Oxon OX14 4RN, UK

ISBN: 978-1-4200-9441-1



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