

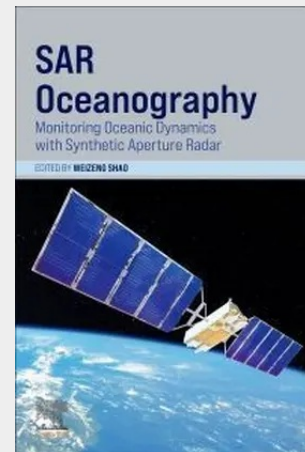
Sar Oceanography

Monitoring Oceanic Dynamics with Synthetic Aperture Radar

SAR Oceanography: Monitoring Oceanic Dynamics with Synthetic Aperture Radar is an authoritative reference for scientists and professionals involved in marine remote sensing and oceanography. The book addresses the critical need for advanced techniques to observe and analyze ocean surface phenomena, such as wind, waves, currents, internal waves, and oil spills, using SAR technology. It emphasizes the importance of SAR in tropical cyclone monitoring, providing insights into high-resolution, all-weather, day-and-night observations essential for climate research, disaster response, and maritime safety. The content is divided into chapters covering SAR algorithms, applications in different oceanic processes, and the recent technological developments. It offers practical case studies and validation methods, making it a valuable resource for researchers, meteorologists, environmental policymakers, and remote sensing specialists. This publication enhances the understanding of ocean dynamics and supports sustainable marine management through cutting-edge SAR applications.

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