



An Introduction to Ocean Remote Sensing

By Seelye Martin

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Fully updated, with significant new coverage of advances in satellite oceanography and results from new satellite missions, the second edition of this popular textbook introduces students to how remote sensing works, how to understand observations from Earth-observing systems, and the observations' importance to physical and biological oceanography. It provides full explanations of radiative transfer, ocean surface properties, satellite orbits, instruments and methods, visible remote sensing of biogeochemical properties, infrared and microwave retrieval of sea surface temperature, sea surface salinity retrieval, passive microwave measurements, scatterometer wind retrieval, altimetry and SAR. Also included are descriptions of the online archives where data can be obtained, and readers can obtain online tools for working with the data - enabling hands-on engagement with real-world observations. This is an ideal textbook for graduate and advanced undergraduate students in oceanography, remote sensing and environmental science, and a practical resource for researchers and professionals working with oceanographic satellite data.

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An Introduction to Ocean Remote Sensing By Seelye Martin Bibliography

- Rank: #1969701 in eBooks
- Published on: 2014-03-31
- Released on: 2014-04-10
- Format: Kindle eBook

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Review

"This complex book has been written by a practitioner who is aware of the requirements of the user, but he presents the required information in a concise and yet accessible form."

Averil Leaver, Open University Geological Society Journal

About the Author

Seelye Martin is an Emeritus Professor in the School of Oceanography at the University of Washington. He has been involved with passive microwave, visible/infrared and radar ice research since 1979, and has made many trips to the Arctic for research on sea ice properties and oceanography. Professor Martin has served on a number of NASA and NOAA committees and panels involving remote sensing and high latitude processes. From 2006-8, he worked at NASA Headquarters as Program Manager for the Cryosphere, where he also served as program scientist for the ICESat-1 and ICESat-2 missions. From 2009-12, he worked in a variety of roles for the NASA high-latitude IceBridge remote sensing aircraft program. For this work, in 2012 he was awarded the NASA Exceptional Public Service Medal.

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