

Springer

1st
edition1st ed. 2021, XIV, 222 p.
105 illus., 1 illus. in color.**Printed book**

Hardcover

Printed book

Hardcover

ISBN 978-3-030-58751-2

\$ 149,99

Available

Discount group

Professional Books (2)

Product category

Monograph

Series

Springer Oceanography

Earth Sciences : Oceanography

Zapevalov, A., Pokazeev, K., Chaplina, T.

Simulation of the Sea Surface for Remote Sensing

- Examines the formation of the reflected signal on the sea surface using remote sensing techniques
- Shows how the wave nonlinearity affects the formation of a signal reflected from the sea surface
- Reveals in-detail data and analyses from a stationary oceanographic platform located on the Black Sea

This book considers the formation of the signal reflected from the sea surface when sensing in the radio and optical range. Currently, remote sensing from space is the main source of information about the processes taking place in the atmosphere and ocean. The correct interpretation of remote sensing data requires detailed information about the rough surface that forms the reflected signal. The first three chapters describe the statistical and spatial-temporal characteristics of the sea surface, focusing on the effects associated with the nonlinearity of sea surface waves. The analysis makes extensive use of data obtained by the authors on a stationary oceanographic platform located on the Black sea. In the next seven chapters, the authors analyze how the nonlinearity of waves affects the formation of a signal reflected from the sea surface. 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. It is of value to scientists and engineers involved in the development of methods and instruments of remote sensing, analysis and interpretation of data. It is useful for students who have decided to devote themselves to the study of the oceans.

Order online at springer.com/booksellers**Springer Nature Customer Service Center LLC**

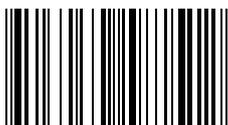
233 Spring Street

New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

customerservice@springernature.com

ISBN 978-3-030-58751-2 / BIC: RBKC / SPRINGER NATURE: SCG25005

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**