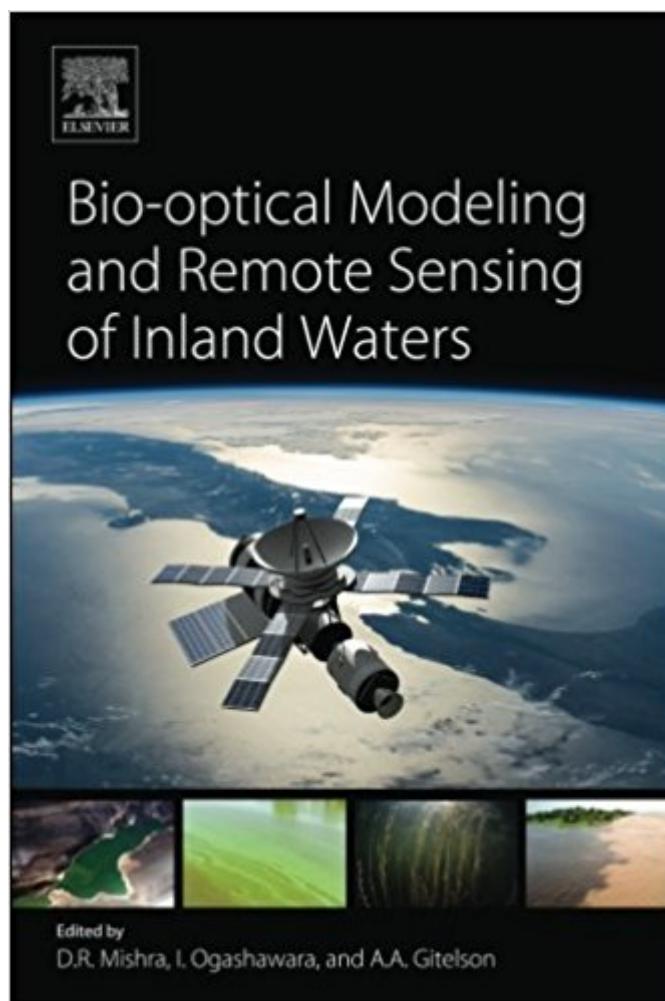


The book was found

Bio-optical Modeling And Remote Sensing Of Inland Waters



Synopsis

Bio-optical Modeling and Remote Sensing of Inland Waters presents the latest developments, state-of-the-art, and future perspectives of bio-optical modeling for each optically active component of inland waters, providing a broad range of applications of water quality monitoring using remote sensing. Rather than discussing optical radiometry theories, the authors explore the applications of these theories to inland aquatic environments. The book not only covers applications, but also discusses new possibilities, making the bio-optical theories operational, a concept that is of great interest to both government and private sector organizations. In addition, it addresses not only the physical theory that makes bio-optical modeling possible, but also the implementation and applications of bio-optical modeling in inland waters. Early chapters introduce the concepts of bio-optical modeling and the classification of bio-optical models and satellite capabilities both in existence and in development. Later chapters target specific optically active components (OACs) for inland waters and present the current status and future direction of bio-optical modeling for the OACs. Concluding sections provide an overview of a governance strategy for global monitoring of inland waters based on earth observation and bio-optical modeling. Presents comprehensive chapters that each target a different optically active component of inland waters Contains contributions from respected and active professionals in the field Presents applications of bio-optical modeling theories that are applicable to researchers, professionals, and government agencies

Book Information

Paperback: 332 pages

Publisher: Elsevier; 1 edition (May 17, 2017)

Language: English

ISBN-10: 0128046449

ISBN-13: 978-0128046449

Product Dimensions: 6 x 0.8 x 9 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #3,990,465 in Books (See Top 100 in Books) #59 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Alternative & Renewable > Hydroelectric #734 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Hydrology #844 in Books > Computers & Technology > Graphics & Design > Computer Modelling > Remote Sensing & GIS

Customer Reviews

Mishraâ™s research expertise is in the area of application of geospatial science to monitor environment particularly vegetation and water resources in the southeastern U.S. His research on radiative transfer model and water column correction procedure to map underwater coral reef habitats from space have been cited in numerous journal articles and replicated by many researchers and resource managers. His research on predicting toxic algal growth (cyanobacteria) and phytoplankton in inland waters has attracted attention of agencies such as GA Power, EPA, and Center for Disease Control. Mishra currently serves on the Editorial board of two international journals, *GIScience and Remote Sensing* and *MDPIâ™s Remote Sensing*, and is an active reviewer for 34 international journals. He edited a special issue for *GIScience and Remote Sensing* during 2013 entitled “Coastal Remote Sensing”; which was published in early 2014. Currently, he is co-editing two special issues entitled “Remote Sensing of Water resources”; and “Remote sensing in coastal environments”; for *MDPIâ™s Remote Sensing*. Geographer by degree and limnologist by heart Ogashawara found through remote sensing the opportunity to connect these two areas. Since high school he learned about tropical limnology while researching at the International Institute of Ecology, Brazil. During college he worked on relating weather types and cyanobacteria blooms and as an MSc student at the Brazilian National Institute for Space Research, he attempted to use bio-optical modeling to monitor water quality in tropical hydroelectric reservoirs. Currently he is a PhD student at Indiana University - Purdue University at Indianapolis, working with bio-optical modeling to identify and predict cyanobacteria in inland waters. Gitelsonâ™s expertise is in the area of remote sensing of aquatic and terrestrial environments. His research on radiative transfer in terrestrial vegetation and water resulted in development models for estimating water constituent concentrations and pigment contents in vegetation. They have been cited in numerous journal articles and used widely around the world. He has published more than 150 papers in peer-reviewed journals (<http://calmit.unl.edu/people/agitelson2>). Gitelson serves on the Editorial board of several journals, *Remote Sensing of Environment* and *Remote Sensing* are among them.

[Download to continue reading...](#)

Bio-optical Modeling and Remote Sensing of Inland Waters Optical Thin Films: User's Handbook (Macmillan Series in Optical and Electro-Optical Engineering) Topics in Fluorescence Spectroscopy, Vol. 10: Advanced Concepts in Fluorescence Sensing, Pt. B: Macromolecular Sensing Topics in Fluorescence Spectroscopy, Vol. 9: Advanced Concepts in Fluorescence Sensing, Pt. A: Small

Molecule Sensing Bio Diesel Basics: A Simple Bio Diesel Handbook Eleanor Powell: A Bio-Bibliography (Bio-Bibliographies in the Performing Arts) Ronald Colman: A Bio-Bibliography (Bio-Bibliographies in the Performing Arts) Crockett: A Bio-Bibliography (Popular Culture Bio-Bibliographies) Algernon Blackwood: A Bio-Bibliography (Bio-Bibliographies in World Literature) Archaeology, Volcanism, and Remote Sensing in the Arenal Region, Costa Rica Remote Sensing and Image Interpretation Hydrologic Remote Sensing: Capacity Building for Sustainability and Resilience Making Spatial Decisions Using GIS and Remote Sensing: A Workbook Photogrammetry and Remote Sensing Remote Sensing of the Environment: An Earth Resource Perspective (2nd Edition) Introduction to Remote Sensing, Fifth Edition Introductory Digital Image Processing: A Remote Sensing Perspective (4th Edition) (Pearson Series in Geographic Information Science) Fundamentals of Satellite Remote Sensing: An Environmental Approach, Second Edition An Introduction to Contemporary Remote Sensing An Introduction to Ocean Remote Sensing

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)