

R. B. Myneni J. Ross (Eds.)

Photon- Vegetation Interactions

Applications in Optical Remote Sensing
and Plant Ecology



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Photon Vegetation Interactions Applications In Optical Remote Sensing And Plant Ecology

Ranga B. Myneni, Juhan Ross



Photon Vegetation Interactions Applications In Optical Remote Sensing And Plant Ecology:

Photon-Vegetation Interactions Ranga B. Myneni, Juhan Ross, 2012-12-06 Photon Vegetation Interactions deals with the interaction of electromagnetic radiation with vegetation canopies The approach to the various aspects is mainly theoretical and consequently the subject is being treated as a special branch of mathematical physics A major emphasis is on the development of theoretical methods for determining the reflection function of vegetation canopies in optical remote sensing Furthermore the coupling of the radiative transfer theory with leaf photosynthesis to evaluate the productivity of vegetation canopies is treated as well as the theory of photon transport in phototropic and other biological media

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Handbook of Functional Plant Ecology Francisco Pugnaire, Fernando Valladares, 1999-03-10 Offers the latest findings and research breakthroughs in plant ecology as well as consideration of classic topics in environmental science and ecology This wide ranging compendium serves as an extremely accessible and useful resource for relative newcomers to the field as well as seasoned experts Investigates plant structure and behavior across the ecological spectrum from the leaf to the ecosystem levels

The Use of Remote Sensing in the Modeling of Forest Productivity H.L. Gholz, Kaneyuki Nakane, H. Shimoda, 2012-12-06 Forests comprise the greatest storage of carbon on land provide fuel for millions are the habitat for most terrestrial biodiversity and are critical to the economies of many countries Yet changes in the extent and dynamics of forests are inherently difficult to detect and quantify Remote sensing technologies may facilitate the measurement of some key forest properties which when combined with other information contained in various computer models may allow for the quantification of critical forest functions This book explores how remote sensing and computer modeling can be combined to estimate changes in the carbon storage or productivity of forests from the level of the leaf to the level of the globe Land managers researchers policy makers and students will all find stimulating discussions among an international set of experts at the cutting edge of the interface between science technology and management

Hyperspectral Remote Sensing of Vegetation Prasad S. Thenkabail, John G. Lyon, 2016-04-19 Hyperspectral narrow band or imaging spectroscopy spectral data are fast emerging as practical solutions in modeling and mapping vegetation Recent research has demonstrated the advances in and merit of hyperspectral data in a range of applications including quantifying agricultural crops modeling forest canopy biochemical properties detecting crop stress and disease mapping leaf chlorophyll content as it influences crop production

identifying plants affected by contaminants such as arsenic demonstrating sensitivity to plant nitrogen content classifying vegetation species and type characterizing wetlands and mapping invasive species The need for significant improvements in quantifying modeling and mapping plant chemical physical and water properties is more critical than ever before to reduce uncertainties in our understanding of the Earth and to better sustain it There is also a need for a synthesis of the vast knowledge spread throughout the literature from more than 40 years of research Hyperspectral Remote Sensing of Vegetation integrates this knowledge guiding readers to harness the capabilities of the most recent advances in applying hyperspectral remote sensing technology to the study of terrestrial vegetation Taking a practical approach to a complex subject the book demonstrates the experience utility methods and models used in studying vegetation using hyperspectral data Written by leading experts including pioneers in the field each chapter presents specific applications reviews existing state of the art knowledge highlights the advances made and provides guidance for the appropriate use of hyperspectral data in the study of vegetation as well as its numerous applications such as crop yield modeling crop and vegetation biophysical and biochemical property characterization and crop moisture assessment This comprehensive book brings together the best global expertise on hyperspectral remote sensing of agriculture crop water use plant species detection vegetation classification biophysical and biochemical modeling crop productivity and water productivity mapping and modeling It provides the pertinent facts synthesizing findings so that readers can get the correct picture on issues such as the best wavebands for their practical applications methods of analysis using whole spectra hyperspectral vegetation indices targeted to study specific biophysical and biochemical quantities and methods for detecting parameters such as crop moisture variability chlorophyll content and stress levels A collective knowledge bank it guides professionals to adopt the best practices for their own work **Advances in Environmental Remote Sensing** F. Mark Danson, Stephen E.

Plummer, 1995-05-03 Significant advances have been made in mapping and monitoring our environment from Earth Observation satellites but now in the 1990s remote sensing has reached a new technological and scientific frontier Advances in Environmental Remote Sensing not only describes recent technological advances but also emphasises the parallel progress that has been made in interpreting and applying data to solve environmental problems A team of scientists working at the research edge examine applications using examples from their own current work and identify key paths for the development of remote sensing into the next century This is an essential book for students of geography environmental science ecology forestry and geology as well as an important reference tool for anyone interested in applications of remote sensing

[Bibliography of Agriculture with Subject Index](#) ,1993 **Comprehensive Remote Sensing** Shunlin Liang, 2017-11-08 Comprehensive Remote Sensing Nine Volume Set covers all aspects of the topic with each volume edited by well known scientists and contributed to by frontier researchers It is a comprehensive resource that will benefit both students and researchers who want to further their understanding in this discipline The field of remote sensing has quadrupled in size in

the past two decades and increasingly draws in individuals working in a diverse set of disciplines ranging from geographers oceanographers and meteorologists to physicists and computer scientists Researchers from a variety of backgrounds are now accessing remote sensing data creating an urgent need for a one stop reference work that can comprehensively document the development of remote sensing from the basic principles modeling and practical algorithms to various applications Fully comprehensive coverage of this rapidly growing discipline giving readers a detailed overview of all aspects of Remote Sensing principles and applications Contains Layered content with each article beginning with the basics and then moving on to more complex concepts Ideal for advanced undergraduates and academic researchers Includes case studies that illustrate the practical application of remote sensing principles further enhancing understanding

Quantitative Remote Sensing of Land Surfaces Shunlin Liang,2005-02-25 Processing the vast amounts of data on the Earth s land surface environment generated by NASA s and other international satellite programs is a significant challenge Filling a gap between the theoretical physically based modelling and specific applications this in depth study presents practical quantitative algorithms for estimating various land surface variables from remotely sensed observations A concise review of the basic principles of optical remote sensing as well as practical algorithms for estimating land surface variables quantitatively from remotely sensed observations Emphasizes both the basic principles of optical remote sensing and practical algorithms for estimating land surface variables quantitatively from remotely sensed observations Presents the current physical understanding of remote sensing as a system with a focus on radiative transfer modelling of the atmosphere canopy soil and snow Gathers the state of the art quantitative algorithms for sensor calibration atmospheric and topographic correction estimation of a variety of biophysical and geophysical variables and four dimensional data assimilation

Advanced Remote Sensing Shunlin Liang,Xiaowen Li,Jindi Wang,2012-08-17 Advanced Remote Sensing is an application based reference that provides a single source of mathematical concepts necessary for remote sensing data gathering and assimilation It presents state of the art techniques for estimating land surface variables from a variety of data types including optical sensors such as RADAR and LIDAR Scientists in a number of different fields including geography geology atmospheric science environmental science planetary science and ecology will have access to critically important data extraction techniques and their virtually unlimited applications While rigorous enough for the most experienced of scientists the techniques are well designed and integrated making the book s content intuitive clearly presented and practical in its implementation Comprehensive overview of various practical methods and algorithms Detailed description of the principles and procedures of the state of the art algorithms Real world case studies open several chapters More than 500 full color figures and tables Edited by top remote sensing experts with contributions from authors across the geosciences

Advanced Applications in Remote Sensing of Agricultural Crops and Natural Vegetation Prasad S. Thenkabail,John G. Lyon,Alfredo Huete,2018-12-07 Written by leading global experts including pioneers in the field the four volume set on Hyperspectral Remote Sensing of Vegetation Second Edition

reviews existing state of the art knowledge highlights advances made in different areas and provides guidance for the appropriate use of hyperspectral data in the study and management of agricultural crops and natural vegetation Volume IV Advanced Applications in Remote Sensing of Agricultural Crops and Natural Vegetation discusses the use of hyperspectral or imaging spectroscopy data in numerous specific and advanced applications such as forest management precision farming managing invasive species and local to global land cover change detection It emphasizes the importance of hyperspectral remote sensing tools for studying vegetation processes and functions as well as the appropriate use of hyperspectral data for vegetation management practices The concluding chapter provides readers with useful guidance on the highlights and essence of Volume IV through the editors perspective Key Features of Volume IV Guides readers to harness the capabilities of the most recent advances in applying hyperspectral remote sensing technology to the study of terrestrial vegetation Includes specific applications on agriculture crop management practices study of crop stress and diseases crop characteristics based on inputs e g nitrogen irrigation study of vegetation impacted by heavy metals gross and net primary productivity studies light use efficiency studies crop water use and actual evapotranspiration studies phenology monitoring land use and land cover studies global change studies plant species detection wetland and forest characterization and mapping crop productivity and crop water productivity mapping and modeling Encompasses hyperspectral or imaging spectroscopy data in narrow wavebands used across visible red edge near infrared far infrared shortwave infrared and thermal portions of the spectrum Explains the implementation of hyperspectral remote sensing data processing mechanisms in a standard fast and efficient manner for their applications Discusses cloud computing to overcome hyperspectral remote sensing massive big data challenges Provides hyperspectral analysis of rocky surfaces on the earth and other planetary systems

Remote Sensing of Leaf Area Index (LAI) and Other Vegetation Parameters Francisco Javier García-Haro, Hongliang Fang, Juan M. Lopez Sanchez, 2019-09-16 Monitoring of vegetation structure and functioning is critical to modeling terrestrial ecosystems and energy cycles In particular leaf area index LAI is an important structural property of vegetation used in many land surface vegetation climate and crop production models Canopy structure LAI fCover plant height and biomass and biochemical parameters leaf pigmentation and water content directly influence the radiative transfer process of sunlight in vegetation determining the amount of radiation measured by passive sensors in the visible and infrared portions of the electromagnetic spectrum Optical remote sensing RS methods build relationships exploiting in situ measurements and or as outputs of physical canopy radiative transfer models The increased availability of passive radar and LiDAR RS data has fostered their use in many applications for the analysis of land surface properties and processes thanks also to their insensitivity to weather conditions and the capability to exploit rich structural and textural information Data fusion and multi sensor integration techniques are pressing topics to fully exploit the information conveyed by both optical and microwave bands

Scaling Physiological Processes ,2012-12-02 Traditional plant physiological ecology

is organism centered and provides a useful framework for understanding the interactions between plants and their environment and for identifying characteristics likely to result in plant success in a particular habitat This book focuses on extending concepts from plant physiological ecology as a basis for understanding carbon energy and biogeochemical cycles at ecosystem regional and global levels This will be a valuable resource for researchers and graduate students in ecology plant ecophysiology ecosystem research biometerology earth system science and remote sensing The integration of metabolic activities across spatial scales from leaf to ecosystem Global constraints and regional processes Functional units in ecological scaling Models and technologies for scaling

Advances in Land Remote Sensing Shunlin Liang, 2008-03-11 This book collects the review papers from both technical sessions and three discussion panels of the 9th International Symposium on Physical Measurements and Signatures in Remote Sensing ISPMRSRS It systematically summarizes the past achievements and identifies the frontier issues as the research agenda for the near future It covers all aspects of land remote sensing from sensor systems physical modeling inversion algorithms to various applications The papers on remote sensing system evaluate the capabilities of different sensor systems for estimating key land surface variables and how they can best be improved and integrated effectively in the future Papers on modeling and inversion review the state of the art methodologies on physical modeling and the inversion algorithms for estimating a series of land surface variables The papers on remote sensing application assess the current status of various applications and discuss how better to bridge the development of remote sensing science and technology and practical applications Representing the community effort and contributed by a team of international leading experts this indispensable reference book for graduate students and practitioners of remote sensing also aids those engaged in academic research government and industry Audience Graduate students practitioners of remote sensing through academic research government and industry

Recent Advances in Quantitative Remote Sensing José A. Sobrino, José Antonio Sobrino Rodríguez, 2002 *An Introduction to Environmental Biophysics* Gaylon S. Campbell, John Norman, 2012-12-06 From reviews of the first edition well organized Recommended as an introductory text for undergraduates AAAS Science Books and Films well written and illustrated Bulletin of the American Meteorological Society

Advances in the Use of NOAA AVHRR Data for Land Applications Giles D'Souza, Alan S. Belward, Jean-Paul Malingreau, 2013-11-11 An up to date detailed set of notes covering all aspects of NOAA AVHRR data collection pre processing analysis and application Includes many FTP sites e mail addresses and URL locations Some chapters address particular aspects of the NOAA AVHRR system such as radiometric calibration and geometric correction while others provide general information of interest to any remote sensing study such as radiative transfer modelling and atmospheric correction The publication of a book that covers all important aspects of the treatment and understanding of the data in one volume makes the work a convenient informative recipe book that is sure to become a favourite for all users of NOAA AVHRR data

Leaf Optical Properties Stéphane Jacquemoud, Susan Ustin, 2019-09-05 Presents state of the art research into leaf

interactions with light for scientists working in remote sensing plant physiology ecology and resource management

Earth Observation for Land and Emergency Monitoring Heiko Balzter, 2017-03-14 Earth Observation Science EOS is the study of the global Earth land ocean atmosphere system through observations The principal tools for such studies are measurements from space since these provide the coverage of the planet that is necessary to capture the behaviour of the entire coupled system In addition surface observations and measurements from aircraft balloons and sounding rockets provide valuable contributors to what are now termed integrated global observing systems Coupled with models the EOS measurement suites provide powerful tools for research into the factors controlling and changing the Earth system in which we live The objectives of this book are to describe new methods and applications of satellite technology in the fields of land and emergency monitoring It draws on new research outcomes from the European FP7 project GIONET European Centre of Excellence in Earth Observation Research Training GIONET combines industrial partners with universities and research institutes and this book provides a perspective on Earth Observation applications that is motivated by the cross fertilisation of both sectors Hence this book will find readers in both industry and academia This book highlights a broad range of innovative uses of Earth Observation technology to support environmental management decision making crisis management and climate policies It uses advanced concepts of multi sensor image integration multi temporal analysis and synergies between data and models This is a truly interdisciplinary subject that encompasses a range of applications in various fields which are discussed in detail throughout the text If you are interested in remote sensing applications and looking for inspiration this is the book for you

Atmospheric Model Applications Ismail Yucel, 2012-04-04 This book covers comprehensive text and reference work on atmospheric models for methods of numerical modeling and important related areas of data assimilation and predictability It incorporates various aspects of environmental computer modeling including an historical overview of the subject approximations to land surface and atmospheric physics and dynamics radiative transfer and applications in satellite remote sensing and data assimilation With individual chapters authored by eminent professionals in their respective topics Advanced Topics in application of atmospheric models try to provide in depth guidance on some of the key applied in atmospheric models for scientists and modelers

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