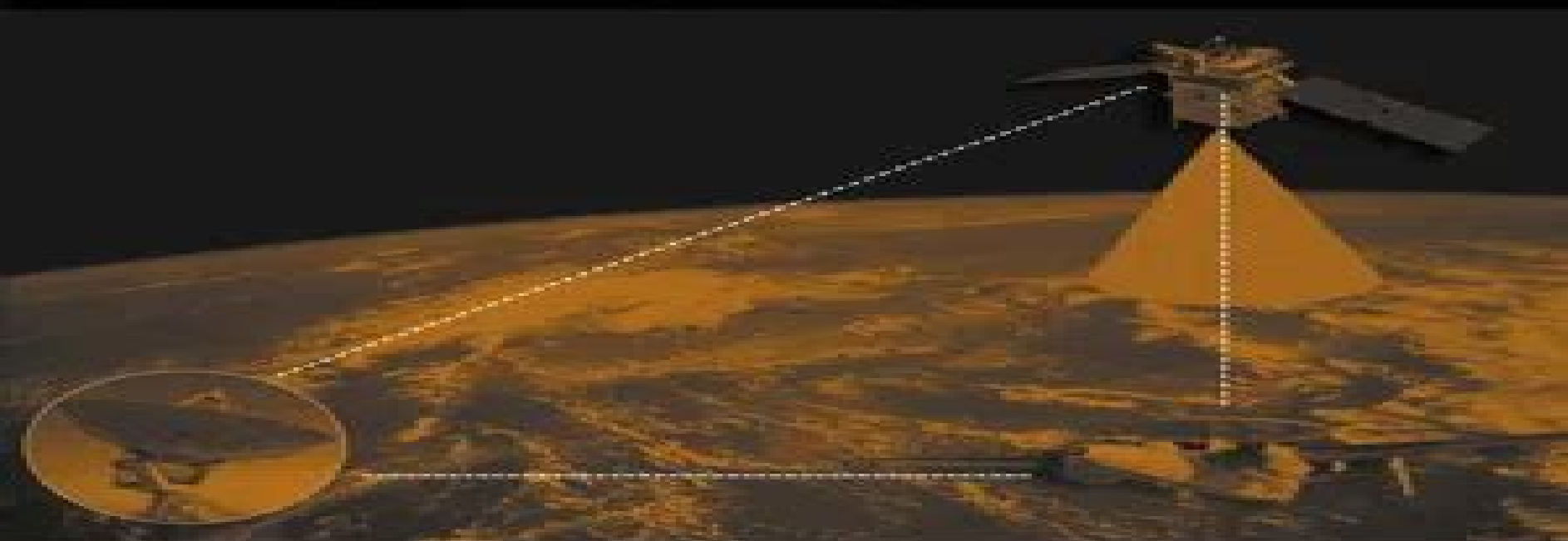


Quantitative Remote Sensing of Land Surfaces



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Quantitative Remote Sensing Of Land Surfaces

Alexander A. Kokhanovsky



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Quantitative Remote Sensing of Land Surfaces Shunlin Liang, 2003-12-12 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.

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 (ISPMSRS). 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.

Remote Sensing of Soil and Land Surface Processes Assefa Melesse, Omid Rahmati, Khabat Khosravi, 2023-10-31 Remote Sensing of Soil and Land Surface Processes Monitoring, Mapping and Modeling couples artificial intelligence and remote sensing for mapping and modeling natural resources, thus expanding the applicability of AI and machine learning for soils and landscape studies and providing a hybridized approach that also increases the accuracy of image analysis. The book covers topics including digital soil mapping, satellite land surface imagery, assessment of land degradation and deep learning networks and their applicability to land surface processes and natural hazards, including case studies and real-life examples where appropriate. This book offers postgraduate researchers and academics the latest

techniques in remote sensing and geoinformation technologies to monitor soil and surface processes Introduces object based concepts and applications enhancing monitoring capabilities and increasing the accuracy of mapping Couples artificial intelligence and remote sensing for mapping and modeling natural resources expanding the applicability of AI and machine learning for soils and sediment studies Includes the use of new sensors and their applications to soils and sediment characterization Includes case studies from a variety of geographical areas Land Surface Observation, Modeling and Data Assimilation Shunlin Liang,2013 This book is unique in its ambitious and comprehensive coverage of earth system land surface characterization from observation and modeling to data assimilation including recent developments in theory and techniques and novel application cases The contributing authors are active research scientists and many of them are internationally known leading experts in their areas ensuring that the text is authoritative This book comprises four parts that are logically connected from data modeling data assimilation integrating data and models to applications Land data assimilation is the key focus of the book which encompasses both theoretical and applied aspects with various novel methodologies and applications to the water cycle carbon cycle crop monitoring and yield estimation Readers can benefit from a state of the art presentation of the latest tools and their usage for understanding earth system processes Discussions in the book present and stimulate new challenges and questions facing today s earth science and modeling communities

Land Surface Remote Sensing in Agriculture and Forest Nicolas Baghdadi,Mehrez Zribi,2016-09-15 The environmental and economic importance of monitoring forests and agricultural resources has allowed remote sensing to be increasingly in the development of products and services responding to user needs This volume presents the main applications in remote sensing for agriculture and forestry including the primary soil properties the estimation of the vegetation s biophysical variables methods for mapping land cover the contribution of remote sensing for crop and water monitoring and the estimation of the forest cover properties cover dynamic height biomass This book part of a set of six volumes has been produced by scientists who are internationally renowned in their fields It is addressed to students engineers Masters PhD engineers and scientists specialists in remote sensing applied to agriculture and forestry Through this pedagogical work the authors contribute to breaking down the barriers that hinder the use of radar imaging techniques Provides clear and concise descriptions of modern remote sensing methods Explores the most current remote sensing techniques with physical aspects of the measurement theory and their applications Provides chapters on physical principles measurement and data processing for each technique described Describes optical remote sensing technology including a description of acquisition systems and measurement corrections to be made **Advanced Remote Sensing** Shunlin Liang,Jindi Wang,2019-11-23 Advanced Remote Sensing Terrestrial Information Extraction and Applications Second Edition is a thoroughly updated application based reference that provides a single source on the 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 like RADAR and LIDAR The book provides scientists in a number of different fields including geography geophysics geology atmospheric science environmental science planetary science and ecology with access to critically important data extraction techniques and their virtually unlimited applications While rigorous enough for the most experienced of scientists the techniques presented are well designed and integrated making the book's content intuitive and practical in its implementation Provides a comprehensive overview of many practical methods and algorithms Offers descriptions of the principles and procedures of the state of the art in remote sensing Includes real world case studies and end of chapter exercises Contains thoroughly revised chapters newly developed applications and updated examples

Global Land Surface Satellite (GLASS) Products Shunlin Liang,Xiaotong Zhang,Zhiqiang Xiao,Jie Cheng,Qiang Liu,Xiang Zhao,2013-11-05 This book describes the algorithms validation and preliminary analysis of the Global Land Surface Satellite GLASS products a long term high quality dataset that is now freely available worldwide to government organizations and agencies scientific research institutions students and members of the general public The GLASS products include leaf area index broadband albedo broadband emissivity downward shortwave radiation and photosynthetically active radiation The first three GLASS products cover 1981 to 2012 with 1km and 5km spatial resolutions and 8 day temporal resolution and the last two GLASS products span 2008 to 2010 with 3 hour temporal resolution and 5km spatial resolution These GLASS products are unique The first three are spatially continuous and cover the longest period of time among all current similar satellite products The other two products are the highest spatial resolution global radiation products from satellite observations that are currently available These products can be downloaded from Beijing Normal University at <http://glass-product.bnu.edu.cn> and the University of Maryland Global Land Cover Facility at <http://www.glcf.umd.edu> The GLASS products are the outcome of a key research project entitled Generation Applications of Global Products of Essential Land Variables supported by funding from the High Tech Research and Development Program of China and involving dozens of institutions and nearly one hundred scientists and researchers Following an introduction the book contains five chapters corresponding to these five GLASS products background algorithm quality control and validation preliminary analysis and applications It discusses the long term environmental changes detected from the GLASS products and other data sources at both global and local scales and also provides detailed analysis of regional hotspots where environmental changes are mainly associated with climate change drought land atmosphere interactions and human activities The book is based primarily on a set of published journal papers about these five GLASS products and includes updated information Since these products have now begun to be widely used this book is an essential reference document It is also a very helpful resource to anyone interested in satellite remote sensing and its applications

Computational Methods for Applied Inverse Problems Yanfei Wang,Anatoly G. Yagola,Changchun Yang,2012-10-30 Nowadays inverse problems and applications in science and engineering represent an extremely active research field The subjects are related to mathematics physics geophysics

geochemistry oceanography geography and remote sensing astronomy biomedicine and other areas of applications This monograph reports recent advances of inversion theory and recent developments with practical applications in frontiers of sciences especially inverse design and novel computational methods for inverse problems The practical applications include inverse scattering chemistry molecular spectra data processing quantitative remote sensing inversion seismic imaging oceanography and astronomical imaging The book serves as a reference book and readers who do research in applied mathematics engineering geophysics biomedicine image processing remote sensing and environmental science will benefit from the contents since the book incorporates a background of using statistical and non statistical methods e g regularization and optimization techniques for solving practical inverse problems *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

Geospatial Technologies for Crops and Soils Tarik Mitran,Ram Swaroop Meena,Abhishek Chakraborty,2020-10-24 The sustainable development of the agriculture sector is the only option to meet the demands of increased and economically viable production in a changing climate This means there is a need to introduce the latest technologies to enhance production and also help policymakers make decisions for the future Geospatial technologies tools such as remote sensing geographical information systems GIS global positioning systems GPS and mobile web applications provide unique capabilities to analyze multi scale multi temporal datasets and support decision making in sustainable agriculture development and natural resources management Further the availability of reliable and timely geospatial information on natural resources and environmental conditions is essential for sustainable agricultural development and food security Since remote sensing solutions are fast non destructive and have large spatial coverage they can play a significant role in the identification inventory and mapping of land resources Over the past four decades remote sensing has proved to be a cost effective and powerful tool to assess crop and soil properties in varying spatial and temporal scales using both visual and

digital techniques Satellite remote sensing coupled with GIS mobile app based positional information has emerged as an efficient tool for optimizing input resources and minimizing cost of production and risk of biotic abiotic factors nature to promote sustainable agriculture This book comprehensively documents the applications of space based technologies for crop and soil assessments for the sustainable development of agriculture *Passive Microwave Research* Ann M. Brennan,1992

Hyperspectral Imaging ,2019-09-29 Hyperspectral Imaging Volume 32 presents a comprehensive exploration of the different analytical methodologies applied on hyperspectral imaging and a state of the art analysis of applications in different scientific and industrial areas This book presents for the first time a comprehensive collection of the main multivariate algorithms used for hyperspectral image analysis in different fields of application The benefits drawbacks and suitability of each are fully discussed along with examples of their application Users will find state of the art information on the machinery for hyperspectral image acquisition along with a critical assessment of the usage of hyperspectral imaging in diverse scientific fields Provides a comprehensive roadmap of hyperspectral image analysis with benefits and considerations for each method discussed Covers state of the art applications in different scientific fields Discusses the implementation of hyperspectral devices in different environments Use of the Normalized Difference Vegetation Index (NDVI) to Assess Land Degradation at Multiple Scales Genesis T. Yengoh,David Dent,Lennart Olsson,Anna E. Tengberg,Compton J. Tucker III,2015-11-11 This report examines the scientific basis for the use of remotely sensed data particularly Normalized Difference Vegetation Index NDVI primarily for the assessment of land degradation at different scales and for a range of applications including resilience of agro ecosystems Evidence is drawn from a wide range of investigations primarily from the scientific peer reviewed literature but also non journal sources The literature review has been corroborated by interviews with leading specialists in the field The report reviews the use of NDVI for a range of themes related to land degradation including land cover change drought monitoring and early warning systems desertification processes greening trends soil erosion and salinization vegetation burning and recovery after fire biodiversity loss and soil carbon This SpringerBrief also discusses the limits of the use of NDVI for land degradation assessment and potential for future directions of use A substantial body of peer reviewed research lends unequivocal support for the use of coarse resolution time series of NDVI data for studying vegetation dynamics at global continental and sub continental levels There is compelling evidence that these data are highly correlated with biophysically meaningful vegetation characteristics such as photosynthetic capacity and primary production that are closely related to land degradation and to agroecosystem resilience **Remote Sensing of Land Use and Land Cover** Chandra P. Giri,2016-04-19 Filling the need for a comprehensive book that covers both theory and application Remote Sensing of Land Use and Land Cover Principles and Applications provides a synopsis of how remote sensing can be used for land cover characterization mapping and monitoring from the local to the global scale With contributions by leading scientists from aro Light Scattering Reviews 7 Alexander A. Kokhanovsky,2012-08-23 Light

Scattering Reviews vol 7 is aimed at the description of modern advances in radiative transfer and light scattering The following topics will be considered the general purpose discrete ordinate algorithm DISORT for radiative transfer fast radiative transfer techniques use of polarization in remote sensing Markovian approach for radiative transfer in cloudy atmospheres coherent and incoherent backscattering by turbid media and surfaces advances in radiative transfer methods as used for luminiscence tomography optical properties of aerosol ice crystals snow and oceanic water This volume will be a valuable addition to already published volumes 1 6 of Light Scattering Reviews

Hyperspectral Indices and Image Classifications for Agriculture and 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 II Hyperspectral Indices and Image Classifications for Agriculture and Vegetation evaluates the performance of hyperspectral narrowband or imaging spectroscopy data with specific emphasis on the uses and applications of hyperspectral narrowband vegetation indices in characterizing modeling mapping and monitoring agricultural crops and vegetation This volume presents and discusses topics such as the non invasive quantification of foliar pigments leaf nitrogen concentration of cereal crop the estimation of nitrogen content in crops and pastures and forest leaf chlorophyll content among others The concluding chapter provides readers with useful guidance on the highlights and essence of Volume II through the editors perspective Key Features of Volume II Provides the fundamentals of hyperspectral narrowband vegetation indices and hyperspectral derivative vegetation indices and their applications in agriculture and vegetation studies Discusses the latest advances in hyperspectral image classification methods and their applications Explains the massively big hyperspectral sensing data processing on cloud computing architectures Highlights the state of the art methods in the field of hyperspectral narrowband vegetation indices for monitoring agriculture vegetation and their properties such as plant water content nitrogen chlorophyll and others at leaf canopy field and landscape scales Includes best global expertise on hyperspectral remote sensing of agriculture crop water use plant species detection crop productivity and water productivity mapping and modeling

Fundamentals, Sensor Systems, Spectral Libraries, and Data Mining for 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 I Fundamentals Sensor Systems Spectral Libraries and Data Mining for Vegetation introduces the fundamentals of hyperspectral or imaging spectroscopy data including hyperspectral data processes sensor systems spectral libraries and data mining and analysis covering both the

strengths and limitations of these topics This book also presents and discusses hyperspectral narrowband data acquired in numerous unique spectral bands in the entire length of the spectrum from various ground based airborne and spaceborne platforms The concluding chapter provides readers with useful guidance on the highlights and essence of Volume I through the editors perspective Key Features of Volume I Provides the fundamentals of hyperspectral remote sensing used in agricultural crops and vegetation studies Discusses the latest advances in hyperspectral remote sensing of ecosystems and croplands Develops online hyperspectral libraries proximal sensing and phenotyping for understanding modeling mapping and monitoring crop and vegetation traits Implements reflectance spectroscopy of soils and vegetation Enumerates hyperspectral data mining and data processing methods approaches and machine learning algorithms Explores methods and approaches for data mining and overcoming data redundancy Highlights the advanced methods for hyperspectral data processing steps by developing or implementing appropriate algorithms and coding the same for processing on a cloud computing platform like the Google Earth Engine Integrates hyperspectral with other data such as the LiDAR data in the study of vegetation Includes best global expertise on hyperspectral remote sensing of agriculture crop water use plant species detection crop productivity and water productivity mapping and modeling

Light Scattering Reviews 9 Alexander A. Kokhanovsky, 2014-09-22 Light Scattering Reviews vol 9 is aimed at the description of modern advances in radiative transfer and light scattering The following topics will be considered light scattering by atmospheric dust particles and also by inhomogeneous scatterers the general purpose discrete ordinate algorithm DISORT for radiative transfer the radiative transfer code RAY based on the adding doubling solution of the radiative transfer equation aerosol and cloud remote sensing use of polarization in remote sensing direct aerosol radiative forcing principles of the Mueller matrix measurements light reflectance from various land surfaces This volume will be a valuable addition to already published volumes 1-8 of Light Scattering Reviews

Hyperspectral Image Analysis Saurabh Prasad, Jocelyn Chanussot, 2020-04-27 This book reviews the state of the art in algorithmic approaches addressing the practical challenges that arise with hyperspectral image analysis tasks with a focus on emerging trends in machine learning and image processing understanding It presents advances in deep learning multiple instance learning sparse representation based learning low dimensional manifold models anomalous change detection target recognition sensor fusion and super resolution for robust multispectral and hyperspectral image understanding It presents research from leading international experts who have made foundational contributions in these areas The book covers a diverse array of applications of multispectral hyperspectral imagery in the context of these algorithms including remote sensing face recognition and biomedicine This book would be particularly beneficial to graduate students and researchers who are taking advanced courses in or are working in the areas of image analysis machine learning and remote sensing with multi channel optical imagery Researchers and professionals in academia and industry working in areas such as electrical engineering civil and environmental engineering geosciences and biomedical image processing who

work with multi channel optical data will find this book useful **Advances in Photogrammetry, Remote Sensing and Spatial Information Sciences: 2008 ISPRS Congress Book** Zhilin Li,Jun Chen,Emmanuel Baltsavias,2008-07-01

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