
PASSIVE MICROWAVE REMOTE SENSING OF LAND-ATMOSPHERE INTERACTIONS

Editors:

B.J. Choudhury, Y.H. Kerr,
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Passive Microwave Remote Sensing of Land-Atmosphere Interactions B. J. Choudhury, Y. H. Kerr, E. G. Njoku, P. Pampaloni, 2020-05-18 No detailed description available for Passive Microwave Remote Sensing of Land Atmosphere Interactions *Passive Microwave Remote Sensing of Land-Atmosphere Interactions*, 2023 Recent advances in theory and observations using passive microwave remote sensing have highlighted the potential of spaceborne sensors for contributing to the required land surface measurements of soils vegetation snow cover and precipitation Furthermore the spatial resolution of passive microwave observations matches the special scales of large scale models of land atmosphere interactions both for data assimilation and validation In order to stimulate and focus this research a workshop sponsored by ESA and NASA was organized to review the state of the art in microwave radiometry related to land applications and to exchange ideas leading into new directions for future research This volume contains the refereed papers from the aforementioned ESA NASA workshop which are arranged by topic as well as the edited working group reports Passive Microwave Remote Sensing of Land-Atmosphere Interactions, 2023 Recent advances in theory and observations using passive microwave remote sensing have highlighted the potential of spaceborne sensors for contributing to the required land surface measurements of soils vegetation snow cover and precipitation Furthermore the spatial resolution of passive microwave observations matches the special scales of large scale models of land atmosphere interactions both for data assimilation and validation In order to stimulate and focus this research a workshop sponsored by ESA and NASA was organized to review the state of the art in microwave radiometry related to land applications and to exchange ideas leading into new directions for future research This volume contains the refereed papers from the aforementioned ESA NASA workshop which are arranged by topic as well as the edited working group reports Passive Microwave Remote Sensing of Land-Atmosphere Interactions 0 Pampaloni, Choudhury, Kerr, Njoku, 2023-05-31 Recent advances in theory and observations using passive microwave remote sensing have highlighted the potential of spaceborne sensors for contributing to the required land surface measurements of soils vegetation snow cover and precipitation Furthermore the spatial resolution of passive microwave observations matches the special scales of large scale models of land atmosphere interactions both for data assimilation and validation In order to stimulate and focus this research a workshop sponsored by ESA and NASA was organized to review the state of the art in microwave radiometry related to land applications and to exchange ideas leading into new directions for future research This volume contains the refereed papers from the aforementioned ESA NASA workshop which are arranged by topic as well as the edited working group reports **Passive Microwave Remote Sensing of the Earth** Fuzhong Weng, 2018-01-23 This book covers the fundamentals of satellite microwave instrument calibration remote sensing sciences and algorithms as well as the applications of the satellite microwave observations in weather and climate research Land Surface Remote Sensing in Continental Hydrology Nicolas Baghdadi, Mehrez

Zribi,2016-09-19 The continental hydrological cycle is one of the least understood components of the climate system The understanding of the different processes involved is important in the fields of hydrology and meteorology In this volume the main applications for continental hydrology are presented including the characterization of the states of continental surfaces water state snow cover etc using active and passive remote sensing monitoring the Antarctic ice sheet and land water surface heights using radar altimetry the characterization of redistributions of water masses using the GRACE mission the potential of GNSS R technology in hydrology and remote sensing data assimilation in hydrological models 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 hydrology Through this pedagogical work the authors contribute to breaking down the barriers that hinder the use of Earth observation data 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 **National Environment Satellite, Data, and Information Service** United States. National Environmental Satellite, Data, and Information Service,1996 *Microwave Remote Sensing Tools in Environmental Science* Costas A. Varotsos,Vladimir F. Krapivin,2020-06-09 This book gives new insight to the study of the global environmental changes using the ecoinformatics and microwave remote sensing tools together with the adaptive evolutionary technology of geoinformation monitoring The main advantage of this book consists in the accumulation of the interdisciplinary scientific knowledge for the parameterization of the global biogeochemical cycles and other environmental processes in the context of globalization and sustainable development In this regard the crucial global problems of the dynamics of the climate nature society system have been considered and the key problems of ensuring its sustainable development have been addressed An analysis of the present trend in changing ecological systems has been discussed including different types of forest ecosystems and ocean aquatories The emphasis has been given to the accomplishment of the global geoinformation monitoring which could provide a reliable control of the environmental processes development with reliable prognostic estimates of the consequences of human activities A new approach to the numerical modelling of the climate nature society system has been presented and demonstrative results have been given about the modelling of the dynamics of this system s characteristics in cases of realization of some scenarios of the anthropogenic impacts to the biogeochemical cycles the land ecosystems and oceans Methods and algorithms for the big data manipulation and processing in the remote sensing environmental monitoring systems have been described **Scattering of Electromagnetic Waves** Leung Tsang,Jin Au Kong,2004-03-24 A timely and authoritative guide to the state of the art of wave scattering Scattering of Electromagnetic Waves offers in three volumes a complete and up to date treatment of wave scattering by random discrete

scatterers and rough surfaces Written by leading scientists who have made important contributions to wave scattering over three decades this new work explains the principles methods and applications of this rapidly expanding interdisciplinary field It covers both introductory and advanced material and provides students and researchers in remote sensing as well as imaging optics and electromagnetic theory with a one stop reference to a wealth of current research results Plus Scattering of Electromagnetic Waves contains detailed discussions of both analytical and numerical methods including cutting edge techniques for the recovery of earth land parametric information The three volumes are entitled respectively Theories and Applications Numerical Simulation and Advanced Topics In the third volume Advanced Topics Leung Tsang University of Washington and Jin Au Kong MIT cover Two dimensional random rough surface scattering Kirchhoff and related methods for rough surface scattering Analytic theory of volume scattering based on cascading of layers Analytic wave theory for medium with permittivity fluctuations Multiple scattering theory for discrete scatterers Quasicrystalline approximation in dense media scattering Dense media scattering Backscattering enhancement

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

National Environmental Satellite, Data, and Information Service, 1996-97, 1998 EOS Science Plan, 1999

Arctic Climate Impact Assessment - Scientific Report Arctic Climate Impact Assessment, 2005-11-07 Arctic Climate Impact Assessment was prepared by an international team of over 300 scientists experts and knowledgeable members of indigenous communities and is the most comprehensive volume on Arctic climate change available Illustrated in full color throughout Remote Sensing in Northern Hydrology Claude R. Dugua, 2005-01-14 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 163 The North with its vast and varied landscapes sparse population and cold climate has always challenged its explorers physically mentally logistically and technically The scientific community in particular has known such challenges in the past and does so today especially in light of the projected

intensification of climate change at high latitudes Indeed there are clear signs that change is already ongoing in many environmental variables Air temperature and annual precipitation including snowfall are increasing in many regions spring snow cover extent is decreasing lake and river ice freeze up dates are occurring later and breakup dates earlier glaciers are retreating rapidly permafrost temperatures are increasing and in many cases the permafrost is thawing and sea ice extent is at record minimums and thinning

Remote Sensing of the Cryosphere Marco Tedesco, 2015-01-27 The cryosphere that region of the world where water is temporarily or permanently frozen plays a crucial role on our planet Recent developments in remote sensing techniques and the acquisition of new data sets have resulted in significant advances in our understanding of all components of the cryosphere and its processes This book based on contributions from 40 leading experts offers a comprehensive and authoritative overview of the methods techniques and recent advances in applications of remote sensing of the cryosphere Examples of the topics covered include snow extent depth grain size and impurities surface and subsurface melting glaciers accumulation over the Greenland and Antarctica ice sheets ice thickness and velocities gravimetric measurements from space sea lake and river ice frozen ground and permafrost fieldwork activities recent and future cryosphere oriented missions and experiments All figures are in color and provide an excellent visual accompaniment to the technical and scientific aspect of the book Readership Senior undergraduates Masters and PhD Students PostDocs and Researchers in cryosphere science and remote sensing Remote Sensing of the Cryosphere is the significant first volume in the new Cryosphere Science Series This new series comprises volumes that are at the cutting edge of new research or provide focussed interdisciplinary reviews of key aspects of the science

Remote Sensing of the Terrestrial Water Cycle Venkataraman Lakshmi, 2014-12-08 Remote Sensing of the Terrestrial Water Cycle is an outcome of the AGU Chapman Conference held in February 2012 This is a comprehensive volume that examines the use of available remote sensing satellite data as well as data from future missions that can be used to expand our knowledge in quantifying the spatial and temporal variations in the terrestrial water cycle Volume highlights include An in depth discussion of the global water cycle Approaches to various problems in climate weather hydrology and agriculture Applications of satellite remote sensing in measuring precipitation surface water snow soil moisture groundwater modeling and data assimilation A description of the use of satellite data for accurately estimating and monitoring the components of the hydrological cycle Discussion of the measurement of multiple geophysical variables and properties over different landscapes on a temporal and a regional scale Remote Sensing of the Terrestrial Water Cycle is a valuable resource for students and research professionals in the hydrology ecology atmospheric sciences geography and geological sciences communities

Cold Region Atmospheric and Hydrologic Studies. The Mackenzie GEWEX Experience Ming-ko Woo, 2008-01-08 This book presents decade long advances in atmospheric research in the Mackenzie River Basin in northern Canada which encompasses environments representative of the coldest areas on Earth Collaborative efforts by a team of about 100 scientists and engineers have yielded knowledge

entirely transferable to other high latitude regions in America Europe and Asia **Introduction to Environmental Remote Sensing** Eric C. Barrett, Leonard F. Curtis, 2013-05-13 Taking a detailed non mathematical approach to the principles on which remote sensing is based this book progresses from the physical principles to the application of remote sensing **Soil Hydrology, Land Use and Agriculture** Manoj Shukla, 2011 Agriculture is strongly affected by changes in soil hydrology as well as changes in land use and management practices and the complex interactions between them This book aims to develop an understanding of these interactions on a watershed scale using soil hydrology models and addresses the consequences of land use and management changes on agriculture from a research perspective It includes case studies that illustrate the impact of land use and management on various soil hydrological parameters under different climates and ecosystems It is suitable for researchers and students in soil sc Introduction to Environmental Remote Sensing Eric Charles Barrett, Leonard Frank Curtis, 1999 First Published in 1999 Routledge is an imprint of Taylor Francis an informa company

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