

Springer Series in
Optical Sciences

Optical and Laser Remote Sensing

Editors

D. K. Killinger and A. Mooradian



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D.K. Killinger,A. Mooradian



Optical And Laser Remote Sensing Springer Series In Optical Sciences By:

Optical and Laser Remote Sensing D.K. Killinger,A. Mooradian,2013-06-29 The field of optical and laser remote sensing has grown rapidly in recent years This dynamic growth has been stimulated not only by technological advances in lasers detectors and optical system design but also by the potential application of remote sensing systems to a wide variety of atmospheric measurements Optical and laser remote sensing can allow single ended measurement capability not offered by conventional point detection techniques While many past measurements have been associated with laboratory research practical systems have recently been developed which are capable of remotely detecting measuring and tracking a wide range of molecular and atomic species in the atmosphere with concentrations of parts per billion and at ranges over 100 km This book is a compilation of papers which represent an overview of the present state of development of optical and laser remote sensing technology The subjects covered include both passive and active remote sensing techniques in the UV visible and IR spectral regions related laser and detector technology and atmospheric propagation and system analysis considerations While the papers do not constitute an exhaustive treatment of the excellent research being conducted in this field they are representative of the wide diversity of present efforts It is hoped that the reader will gain a general understanding of the current research in optical and laser remote sensing as well as an overview of current systems development

Lidar Claus Weitkamp,2006-06-03 Written by leading experts in optical radar or lidar this book brings all the recent practices up to date With a Foreword by one of the founding fathers in the area Its broad cross disciplinary scope should appeal to scientists ranging from the view of optical sciences to environmental engineers Optical remote sensing has matured to become a lead method for cross disciplinary research This new multi authored book reviews the state of the art in a readable monograph

Handbook of Humidity Measurement, Volume 1 Ghenadii Korotcenkov,2018-03-15 The first volume of The Handbook of Humidity Measurement focuses on the review of devices based on optical principles of measurement such as optical UV fluorescence hygrometers optical and fiber optic sensors of various types Numerous methods for monitoring the atmosphere have been developed in recent years based on measuring the absorption of electromagnetic field in different spectral ranges These methods covering the optical FTIR and Lidar techniques as well as a microwave and THz ranges are discussed in detail in this volume The role of humidity sensitive materials in optical and fiber optic sensors is also detailed This volume describes the reasons for controlling the humidity features of water and water vapors and units used for humidity measurement

Multiscale Hydrologic Remote Sensing Ni-Bin Chang,Yang Hong,2012-03-23 Multiscale Hydrologic Remote Sensing Perspectives and Applications integrates advances in hydrologic science and innovative remote sensing technologies Raising the visibility of interdisciplinary research on water resources it offers a suite of tools and platforms for investigating spatially and temporally continuous hydrological variables and p

Differential Absorption Lidars for Remote Sensing of Atmospheric Pressure and Temperature Profiles ,1995

Earth Resources ,1983

Optical Remote Sensing of Ocean Hydrodynamics Victor Raizer,2019-03-04

Optical Remote Sensing is one of the main technologies used in sea surface monitoring Optical Remote Sensing of Ocean Hydrodynamics investigates and demonstrates capabilities of optical remote sensing technology for enhanced observations and detection of ocean environments It provides extensive knowledge of physical principles and capabilities of optical observations of the oceans at high spatial resolution 1 4m and on the observations of surface wave hydrodynamic processes It also describes the implementation of spectral statistical and fusion algorithms for analyses of multispectral optical databases and establishes physics based criteria for detection of complex wave phenomena and hydrodynamic disturbances including assessment and management of optical databases This book explains the physical principles of high resolution optical imagery of the ocean surface discusses for the first time the capabilities of observing hydrodynamic processes and events and emphasizes the integration of optical measurements and enhanced data analysis It also covers both the assessment and the interpretation of dynamic multispectral optical databases and includes applications for advanced studies and nonacoustic detection This book is an invaluable resource for researches industry professionals engineers and students working on cross disciplinary problems in ocean hydrodynamics optical remote sensing of the ocean and sea surface remote sensing Readers in the fields of geosciences and remote sensing applied physics oceanography satellite observation technology and optical engineering will learn the theory and practice of optical interactions with the ocean

Environmental Instrumentation and Analysis Handbook Randy D. Down,Jay H. Lehr,2005-11-22 A comprehensive resource for information about different technologies and methods to measure and analyze contamination of air water and soil Serves as a technical reference in the field of environmental science and engineering Includes information on instrumentation used for measurement and control of effluents and emissions from industrial facilities that can directly influence the environment Focuses on applications making it a practical reference tool

Laser And Plasma Technology - Third Tropical College On Applied Physics S Lee,B C Tan,C S Wong,A C Chew,K S Low,S P Moo,1990-01-01

Laser Spectroscopy and its Applications

Richard W. Solarz,Jeffrey A. Paisner,2017-11-22 Bringing together scattered literature from a range of sources Laser Spectroscopy and Its Applications clearly elucidates the tools and concepts of this dynamic area and provides extensive bibliographies for further study Distinguished experts in their respective fields discuss resonance photoionization laser absorption laser induced breakdown photodissociation Raman scattering remote sensing and laser induced fluorescence The book also incorporates an overview of the semiclassical theory of atomic and molecular spectra Combining background at an intermediate level with an in depth discussion of specific techniques Laser Spectroscopy and Its Applications is essential reading for laser and optical scientists and engineers analytical chemists health physicists researchers in optical chemical pharmaceutical and metallurgical industries It will also prove useful for upper level undergraduate and graduate students of laser spectroscopy and its applications and in house seminars and short courses offered by firms and professional societies

Encyclopedia of Atmospheric Sciences Gerald R. North, John A. Pyle, Fuqing Zhang, 2014-09-14 Encyclopedia of Atmospheric Sciences Second Edition Six Volume Set is an authoritative resource covering all aspects of atmospheric sciences including both theory and applications With more than 320 articles and 1 600 figures and photographs this revised version of the award winning first edition offers comprehensive coverage of this important field The six volumes in this set contain broad ranging articles on topics such as atmospheric chemistry biogeochemical cycles boundary layers clouds general circulation global change mesoscale meteorology ozone radar satellite remote sensing and weather prediction The Encyclopedia is an ideal resource for academia government and industry in the fields of atmospheric ocean and environmental sciences It is written at a level that allows undergraduate students to understand the material while providing active researchers with the latest information in the field Covers all aspects of atmospheric sciences including both theory and applications Presents more than 320 articles and more than 1 600 figures and photographs Broad ranging articles include topics such as atmospheric chemistry biogeochemical cycles boundary layers clouds general circulation global change mesoscale meteorology ozone radar satellite remote sensing and weather prediction An ideal resource for academia government and industry in the fields of atmospheric ocean and environmental sciences *Advanced Photonic Sciences* Mohamed Fadhali, 2012-03-21 The new emerging field of photonics has significantly attracted the interest of many societies professionals and researchers around the world The great importance of this field is due to its applicability and possible utilization in almost all scientific and industrial areas This book presents some advanced research topics in photonics It consists of 16 chapters organized into three sections Integrated Photonics Photonic Materials and Photonic Applications It can be said that this book is a good contribution for paving the way for further innovations in photonic technology The chapters have been written and reviewed by well experienced researchers in their fields In their contributions they demonstrated the most profound knowledge and expertise for interested individuals in this expanding field The book will be a good reference for experienced professionals academics and researchers as well as young researchers only starting their carrier in this field *Advances in Spectroscopic Monitoring of the Atmosphere* Weidong Chen, Dean S. Venables, Markus W. Sigrist, 2021-06-09 Advances in Spectroscopic Monitoring of the Atmosphere provides a comprehensive overview of cutting edge technologies and monitoring applications Concepts are illustrated by numerous examples with information on spectroscopic techniques and applications widely distributed throughout the text This information is important for researchers to gain an overview of recent developments in the field and make informed selections among the most suitable techniques This volume also provides information that will allow researchers to explore implementing and developing new diagnostic tools or new approaches for trace gas and aerosol sensing themselves Advances in Spectroscopic Monitoring of the Atmosphere covers advanced and newly emerging spectroscopic techniques for optical metrology of gases and particles in the atmosphere This book will be a valuable reference for atmospheric scientists including those whose focus is applying

the methods to atmospheric studies and those who develop instrumentation It will also serve as a useful introduction to researchers entering the field and provide relevant examples to researchers and students developing and applying optical sensors for a variety of other scientific technical and industrial uses Overview of new applications including remote sensing by UAV laser heterodyne radiometry dual comb spectroscopy and more Features in situ observations and measurements for real world data Includes content on leading edge optical sensors *Scientific and Technical Books and Serials in Print* ,1984

Handbook of Optics, Third Edition Volume V: Atmospheric Optics, Modulators, Fiber Optics, X-Ray and Neutron Optics Michael Bass,Casimer DeCusatis,Jay M. Enoch,Vasudevan Lakshminarayanan,Guifang Li,Carolyn MacDonald,Virendra N. Mahajan,Eric Van Stryland,2009-11-13 The most comprehensive and up to date optics resource available Prepared under the auspices of the Optical Society of America the five carefully architected and cross referenced volumes of the Handbook of Optics Third Edition contain everything a student scientist or engineer requires to actively work in the field From the design of complex optical systems to world class research and development methods this definitive publication provides unparalleled access to the fundamentals of the discipline and its greatest minds Individual chapters are written by the world s most renowned experts who explain illustrate and solve the entire field of optics Each volume contains a complete chapter listing for the entire Handbook extensive chapter glossaries and a wealth of references This pioneering work offers unprecedented coverage of optics data techniques and applications Volume V covers atmospheric optics modulators fiber optics and x ray and neutron optics **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 Spatial Light Modulator Technology Uzi Efron,1994-09-29 This work offers comprehensive coverage of all aspects of spatial light modulators from the various optical materials used for modulation through the availability and characteristics of specific devices to the main applications of SLMs and related systems The gamut of SLMs is surveyed including multiple quantum well acousto optical

magneto optical deformable membrane ferroelectric liquid crystal and smart pixel modulators

Topographic Laser Ranging and Scanning Jie Shan, Charles K. Toth, 2017-12-19 A systematic in depth introduction to theories and principles of Light Detection and Ranging LiDAR technology is long overdue as it is the most important geospatial data acquisition technology to be introduced in recent years An advanced discussion this text fills the void Professionals in fields ranging from geology geography and geoinformatics to physics transportation and law enforcement will benefit from this comprehensive discussion of topographic LiDAR principles systems data acquisition and data processing techniques The book covers ranging and scanning fundamentals and broad contemporary analysis of airborne LiDAR systems as well as those situated on land and in space The authors present data collection at the signal level in terms of waveforms and their properties at the system level with regard to calibration and georeferencing and at the data level to discuss error budget quality control and data organization They devote the bulk of the book to LiDAR data processing and information extraction and elaborate on recent developments in building extraction and reconstruction highlighting quality and performance evaluations There is also extensive discussion of the state of the art technological developments used in filtering algorithms for digital terrain model generation strip adjustment of data for registration co registration of LiDAR data with imagery forestry inventory and surveying Readers get insight into why LiDAR is the effective tool of choice to collect massive volumes of explicit 3 D data with unprecedented accuracy and simplicity Compiled by leading experts talking about much of their own pioneering work this book will give researchers professionals and senior students novel ideas to supplement their own experience and practices

Earth Resources ,1984 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International Aerospace Abstracts IAA

Semiconductor Lasers Junji Ohtsubo, 2006 This monograph describes fascinating recent progress in the field of chaos stability and instability of semiconductor lasers Applications and future prospects are discussed in detail The book emphasizes the various dynamics induced in semiconductor lasers by optical and electronic feedback optical injection and injection current modulation Recent results of both theoretical and experimental investigations are presented Demonstrating applications of semiconductor laser chaos control and noise Semiconductor Lasers describes suppression and chaotic secure communications For those who are interested in optics but not familiar with nonlinear systems a brief introduction to chaos analysis is presented

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