



INTRODUCTION TO THE PHYSICS AND TECHNIQUES OF
REMOTE SENSING

THIRD EDITION

CHARLES ELACHI • JAKOB VAN ZYL

Introduction To The Physics And Techniques Of Remote Sensing

Carlo G. Somenza



Introduction To The Physics And Techniques Of Remote Sensing:

Introduction to the Physics and Techniques of Remote Sensing Charles Elachi, Jakob J. van Zyl, 2006-05-11 The science and engineering of remote sensing theory and applications The Second Edition of this authoritative book offers readers the essential science and engineering foundation needed to understand remote sensing and apply it in real world situations Thoroughly updated to reflect the tremendous technological leaps made since the publication of the first edition this book covers the gamut of knowledge and skills needed to work in this dynamic field including Physics involved in wave matter interaction the building blocks for interpreting data Techniques used to collect data Remote sensing applications The authors have carefully structured and organized the book to introduce readers to the basics and then move on to more advanced applications Following an introduction Chapter 2 sets forth the basic properties of electromagnetic waves and their interactions with matter Chapters 3 through 7 cover the use of remote sensing in solid surface studies including oceans Each chapter covers one major part of the electromagnetic spectrum e g visible near infrared thermal infrared passive microwave and active microwave Chapters 8 through 12 then cover remote sensing in the study of atmospheres and ionospheres Each chapter first presents the basic interaction mechanism followed by techniques to acquire measure and study the information or waves emanating from the medium under investigation In most cases a specific advanced sensor is used for illustration The book is generously illustrated with fifty percent new figures Numerous illustrations are reproduced in a separate section of color plates Examples of data acquired from spaceborne sensors are included throughout Finally a set of exercises along with a solutions manual is provided This book is based on an upper level undergraduate and first year graduate course taught by the authors at the California Institute of Technology Because of the multidisciplinary nature of the field and its applications it is appropriate for students in electrical engineering applied physics geology planetary science astronomy and aeronautics It is also recommended for any engineer or scientist interested in working in this exciting field

Introduction to the Physics and Techniques of Remote Sensing Charles Elachi, Jakob J. van Zyl, 2021-03-18 INTRODUCTION TO THE PHYSICS AND TECHNIQUES OF REMOTE SENSING DISCOVER CUTTING EDGE THEORY AND APPLICATIONS OF MODERN REMOTE SENSING IN GEOLOGY OCEANOGRAPHY ATMOSPHERIC SCIENCE IONOSPHERIC STUDIES AND MORE The thoroughly revised third edition of the Introduction to the Physics and Techniques of Remote Sensing delivers a comprehensive update to the authoritative textbook offering readers new sections on radar interferometry radar stereo and planetary radar It explores new techniques in imaging spectroscopy and large optics used in Earth orbiting planetary and astrophysics missions It also describes remote sensing instruments on as well as data acquired with the most recent Earth and space missions Readers will benefit from the brand new and up to date concept examples and full color photography 50% of which is new to the series You ll learn about the basic physics of wave matter interactions techniques of remote sensing across the electromagnetic spectrum from ultraviolet to microwave and the concepts behind the remote sensing techniques

used today and those planned for the future The book also discusses the applications of remote sensing for a wide variety of earth and planetary atmosphere and surface sciences like geology oceanography resource observation atmospheric sciences and ionospheric studies This new edition also incorporates A fulsome introduction to the nature and properties of electromagnetic waves An exploration of sensing solid surfaces in the visible and near infrared spectrums as well as thermal infrared microwave and radio frequencies A treatment of ocean surface sensing including ocean surface imaging and the mapping of ocean topography A discussion of the basic principles of atmospheric sensing and radiative transfer including the radiative transfer equation Perfect for senior undergraduate and graduate students in the field of remote sensing instrument development data analysis and data utilization Introduction to the Physics and Techniques of Remote Sensing will also earn a place in the libraries of students faculty researchers engineers and practitioners in fields like aerospace electrical engineering and astronomy

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Neural Networks in Atmospheric Remote Sensing William J. Blackwell,Frederick W. Chen,2009 This authoritative reference offers you a comprehensive understanding of the underpinnings and practical applications of artificial neural networks and their use in the retrieval of geophysical parameters You find expert guidance on the development and evaluation of neural network algorithms that process data from a new generation of hyperspectral sensors The book provides clear explanations of the mathematical and physical foundations of remote sensing systems including radiative transfer and propagation theory sensor technologies and inversion and estimation approaches You discover how to use neural networks to approximate remote sensing inverse functions with emphasis on model selection preprocessing initialization training and performance evaluation *Earth Resources* ,1977 *Guidelines for the Use of Digital Imagery for Vegetation Mapping*

,1996 *GIS in Environmental Engineering* Shaheemath Suhara K. K.,A. K. Haghi,2025-02-13 The book covers applications of Geographic Information System GIS and remote sensing in the fields of hydrology water resource management land use rainfall variability and groundwater mapping to help professionals in the field identify change in patterns and guide them in

making decisions that promote sustainable development *Computer Processing of Remotely-Sensed Images* Paul M. Mather, Magaly Koch, 2022-04-06 Computer Processing of Remotely Sensed Images A thorough introduction to computer processing of remotely sensed images processing methods and applications Remote sensing is a crucial form of measurement that allows for the gauging of an object or space without direct physical contact allowing for the assessment and recording of a target under conditions which would normally render access difficult or impossible This is done through the analysis and interpretation of electromagnetic radiation EMR that is reflected or emitted by an object surveyed and recorded by an observer or instrument that is not in contact with the target This methodology is particularly of importance in Earth observation by remote sensing wherein airborne or satellite borne instruments of EMR provide data on the planet s land seas ice and atmosphere This permits scientists to establish relationships between the measurements and the nature and distribution of phenomena on the Earth s surface or within the atmosphere Still relying on a visual and conceptual approach to the material the fifth edition of this successful textbook provides students with methods of computer processing of remotely sensed data and introduces them to environmental applications which make use of remotely sensed images The new edition s content has been rearranged to be more clearly focused on image processing methods and applications in remote sensing with new examples including material on the Copernicus missions microsatellites and recently launched SAR satellites as well as time series analysis methods The fifth edition of *Computer Processing of Remotely Sensed Images* also contains A cohesive presentation of the fundamental components of Earth observation remote sensing that is easy to understand and highly digestible Largely non technical language providing insights into more advanced topics that may be too difficult for a non mathematician to understand Illustrations and example boxes throughout the book to illustrate concepts as well as revised examples that reflect the latest information References and links to the most up to date online and open access sources used by students *Computer Processing of Remotely Sensed Images* is a highly insightful textbook for advanced undergraduates and postgraduate students taking courses in remote sensing and GIS in Geography Geology and Earth Environmental Science departments *Introduction to Remotely Sensed Data* Barbara Anne Harrison, David Laurence Barry Jupp, 1989 The first of five books which constitute the TMicroBRIAN Resource Manual Gives a concise overview of remote sensing for students and professionals concerned with the management of natural resources and includes extensive reference material related to remote sensing Describes data acquisition methods the range of data sources approaches to image interpretation and possible application areas Includes a glossary references and an index [Geospatial Technologies in Land Resources Mapping, Monitoring and Management](#) G. P. Obi Reddy, S. K. Singh, 2018-09-11 This book offers an overview of geospatial technologies in land resources mapping monitoring and management It consists of four main sections geospatial technologies principles and applications geospatial technologies in land resources mapping geospatial technologies in land resources monitoring and geospatial technologies in land resources management Each part is divided

into detailed chapters that include illustrations and tables The authors from leading institutes such as the ICAR NBSS LUP IIT B NRSC ICRISAT share their experiences and offer case studies to provide advanced insights into the field It is a valuable resource for the scientific and the teaching community extension scientists at research institutes and agricultural universities colleges as well as those involved in planning and managing land resources for sustainable agriculture and livelihood security

Guidelines for the Use of Digital Imagery for Vegetation Mapping Henry Lachowski,1996-09 A basic reference for those considering digital imagery particularly satellite imagery for vegetation mapping Contents using remote sensing and GIS for mapping vegetation remote sensors and remotely sensed data determining appropriate uses for satellite imagery defining the classification scheme collecting reference data assessing accuracy creating polygons project management the basic tour and case studies Important terms and ideas are introduced while showing the progression of key activities in the classification and mapping process

Theoretical Fundamentals of Atmospheric Optics Yu. M. Timofeyev,A. V. Vasil'ev,2008 The book describes the theoretical fundamentals of atmospheric optics as a science of propagation transformation and generation of electromagnetic radiation in the atmosphere from ultraviolet to microwave radiation The main characteristics of the planets of the solar system and their atmospheres are given The equation of the transfer of radiation in different spectral ranges absorption of radiation by atmospheric gases and aerosol molecular aerosol and other types of nonresonant scattering atmospheric refraction reflection of radiation from the surface and glow of the atmosphere are discussed Methods of calculating radiation for the solar and thermal range of the spectrum are outlined Problems of radiation energetics and remote probing of the atmosphere are discussed 1 Solar system planets and the Sun 2 Earth s atmosphere 3 Propagation of radiation in atmosphere 4 Molecular absorption in atmosphere 5 Scattering of light in atmosphere 6 Optical properties of underlying surfaces 7 Fundamentals of theory of transfer of natural radiation of atmosphere 8 Main concepts of theory of transfer of solar radiation 9 Radiation energetics of the atmosphereunderlying suface system 10 Radiation as a source of information on optical and physical parameters of planet atmospheres

Remote Sensing Physics Rick Chapman,Richard Gasparovic,2022-03-15 An introduction to the physical principles underlying Earth remote sensing The development of spaceborne remote sensing technology has led to a new understanding of the complexity of our planet by allowing us to observe Earth and its environments on spatial and temporal scales that are unavailable to terrestrial sensors Remote Sensing Physics An Introduction to Observing Earth from Space is a graduate level text that examines the underlying physical principles and techniques used to make remote measurements along with the algorithms used to extract geophysical information from those measurements Volume highlights include Basis for Earth remote sensing including ocean land and atmosphere Description of satellite orbits relevant for Earth observations Physics of passive sensing including infrared optical and microwave imagers Physics of active sensing including radars and lidars Overview of current and future Earth observation missions Compendium of resources including an extensive bibliography Sample problem sets

and answers available to instructors The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

Scientific Photography and Applied Imaging Sidney Ray, 1999-08-02 WINNER OF THE 2001 KRASZNA KRAUSZ PHOTOGRAPHY BOOK AWARD Technical Photography category The only definitive book to fully encompass the use of photography and imaging as tools in science technology and medicine It describes in one single volume the basic theory techniques materials special equipment and applications for a wide variety of uses of photography including close up photography and photomacrography to spectral recording surveillance systems radiography and micro imaging This extensively illustrated photography bible contains all the information you need whether you are a scientist wishing to use photography for a specialist application a professional needing to extend technical expertise or a student wanting to broaden your knowledge of the applications of photography The contents are arranged in three sections General Section detailing the elements of the image capture process Major Applications describing the major applications of imaging Specialist Applications presenting an eclectic selection of more specialised but increasingly important applications Each subject is introduced with an outline of its development and contemporary importance followed by explanations of essential theory and an overview of techniques and equipment Mathematics is only used where necessary Numerous applications and case studies are described Comprehensive bibliographies and references are provided for further study

Synthetic Aperture Radar Processing Giorgio Franceschetti, Riccardo Lanari, 1999-03-30 Synthetic Aperture Radar Processing simply and methodically presents principles and techniques of Synthetic Aperture Radar SAR image generation by analyzing its system transfer function The text considers the full array of operation modes from strip to scan emphasizes processing techniques enabling the design of operational SAR codes A simple example then follows This book will be invaluable to all SAR scientists and engineers working in the field It may be used as the basis for a course on SAR image generation or as a reference book on remote sensing It contains a wide spectrum of information presented with clarity and rigor

Position, Navigation, and Timing Technologies in the 21st Century Y. Jade Morton, Frank van Diggelen, James J. Spilker, Jr., Bradford W. Parkinson, Sherman Lo, Grace Gao, 2021-01-13 Covers the latest developments in PNT technologies including integrated satellite navigation sensor systems and civil applications Featuring sixty four chapters that are divided into six parts this two volume work provides comprehensive coverage of the state of the art in satellite based position navigation and timing PNT technologies and civilian applications It also examines alternative navigation technologies based on other signals of opportunity and sensors and offers a comprehensive treatment on integrated PNT systems for consumer and commercial applications Volume 1 of Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications contains three parts and focuses on the satellite navigation systems technologies and engineering and scientific applications It starts with a historical perspective of GPS development and other related PNT

development Current global and regional navigation satellite systems GNSS and RNSS their inter operability signal quality monitoring satellite orbit and time synchronization and ground and satellite based augmentation systems are examined Recent progresses in satellite navigation receiver technologies and challenges for operations in multipath rich urban environment in handling spoofing and interference and in ensuring PNT integrity are addressed A section on satellite navigation for engineering and scientific applications finishes off the volume Volume 2 of Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications consists of three parts and addresses PNT using alternative signals and sensors and integrated PNT technologies for consumer and commercial applications It looks at PNT using various radio signals of opportunity atomic clock optical laser magnetic field celestial MEMS and inertial sensors as well as the concept of navigation from Low Earth Orbiting LEO satellites GNSS INS integration neuroscience of navigation and animal navigation are also covered The volume finishes off with a collection of work on contemporary PNT applications such as survey and mobile mapping precision agriculture wearable systems automated driving train control commercial unmanned aircraft systems aviation and navigation in the unique Arctic environment In addition this text Serves as a complete reference and handbook for professionals and students interested in the broad range of PNT subjects Includes chapters that focus on the latest developments in GNSS and other navigation sensors techniques and applications Illustrates interconnecting relationships between various types of technologies in order to assure more protected tough and accurate PNT Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications will appeal to all industry professionals researchers and academics involved with the science engineering and applications of position navigation and timing technologies pnt21book com

TORUS 2 - Toward an Open Resource Using Services Dominique Laffly, 2020-06-03 This book presented in three volumes examines environmental disciplines in relation to major players in contemporary science Big Data artificial intelligence and cloud computing Today there is a real sense of urgency regarding the evolution of computer technology the ever increasing volume of data threats to our climate and the sustainable development of our planet As such we need to reduce technology just as much as we need to bridge the global socio economic gap between the North and South between universal free access to data open data and free software open source In this book we pay particular attention to certain environmental subjects in order to enrich our understanding of cloud computing These subjects are erosion urban air pollution and atmospheric pollution in Southeast Asia melting permafrost causing the accelerated release of soil organic carbon in the atmosphere alert systems of environmental hazards such as forest fires prospective modeling of socio spatial practices and land use and web fountains of geographical data Finally this book asks the question in order to find a pattern in the data how do we move from a traditional computing model based world to pure mathematical research After thorough examination of this topic we conclude that this goal is both transdisciplinary and achievable Electromagnetic Waves

Carlo G. Someda, 2017-12-19 Adapted from a successful and thoroughly field tested Italian text the first edition of Electromagnetic Waves was very well received Its broad integrated coverage of electromagnetic waves and their applications forms the cornerstone on which the author based this second edition Working from Maxwell's equations to applications in optical communications and photonics Electromagnetic Waves Second Edition forges a link between basic physics and real life problems in wave propagation and radiation Accomplished researcher and educator Carlo G Someda uses a modern approach to the subject Unlike other books in the field it surveys all major areas of electromagnetic waves in a single treatment The book begins with a detailed treatment of the mathematics of Maxwell's equations It follows with a discussion of polarization delves into propagation in various media devotes four chapters to guided propagation links the concepts to practical applications and concludes with radiation diffraction coherence and radiation statistics This edition features many new and reworked problems updated references and suggestions for further reading a completely revised appendix on Bessel functions and new definitions such as antenna effective height Illustrating the concepts with examples in every chapter Electromagnetic Waves Second Edition is an ideal introduction for those new to the field as well as a convenient reference for seasoned professionals

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