

Access Free Remote Sensing
Principles And Applications

Remote Sensing Principles And Applications

A comprehensive introduction
to the principles and

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applications of remote sensing, written by contributors actively involved in optical remote sensing research. Special attention is paid to the interrelationship between land surfaces and the

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intervening atmosphere. Focusing specifically on the spectral region of 0.04 to 16 microns, this book covers a wide range of techniques and their practical implementations. Demonstrates how the same

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basic measurements can be used in several different applications to obtain quantitative measurements. Ideal for both undergraduate and graduate students in the fields of geography, forestry, ecology,

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geographic information science, remote sensing, and photogrammetric engineering, LiDAR Remote Sensing and Applications expertly joins LiDAR principles, data processing basics, applications, and hands-on

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practices in one comprehensive source. The LiDAR data within this book is collected from 27 areas in the United States, Brazil, Canada, Ghana, and Haiti and includes 183 figures created to introduce

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the concepts, methods, and applications in a clear context. It provides 11 step-by-step projects predominately based on Esri's ArcGIS software to support seamless integration of LiDAR products and other

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GIS data. The first six projects are for basic LiDAR data visualization and processing and the other five cover more advanced topics: from mapping gaps in mangrove forests in Everglades National Park,

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Florida to generating trend surfaces for rock layers in Raplee Ridge, Utah. Features Offers a comprehensive overview of LiDAR technology with numerous applications in geography, forestry and earth science Gives

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necessary theoretical foundations from all pertinent subject matter areas Uses case studies and best practices to point readers to tools and resources Provides a synthesis of ongoing

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research in the area of LiDAR remote sensing technology Includes carefully selected illustrations and data from the authors' research projects Before every project in the book, a link

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is provided for users to download data

Microwave and millimeter-wave remote sensing techniques are fast becoming a necessity in many aspects of security as detection and classification of objects or

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intruders becomes more difficult. This groundbreaking resource offers you expert guidance in this burgeoning area. It provides you with a thorough treatment of the principles of microwave and millimeter-

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wave remote sensing for security applications, as well as practical coverage of the design of radiometer, radar, and imaging systems. You learn how to design active and passive sensors for intruder detection,

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concealed object detection, and human activity classification. This detailed book presents the fundamental concepts practitioners need to understand, including electromagnetic wave

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propagation in free space and in media, antenna theory, and the principles of receiver design. You find in-depth discussions on the interactions of electromagnetic waves with human tissues, the

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atmosphere and various building and clothing materials. This timely volume explores recently developed detection techniques, such as micro-Doppler radar signatures and correlation radiometry. The

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book is supported with over 200 illustrations and 1,135 equations.

Sonic Detection and Ranging (SODAR) systems and Radio Acoustic Sounding Systems (RASS) use sound waves to determine wind speed, wind

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direction, and turbulent character of the atmosphere. They are increasingly used for environmental and scientific applications such as analyzing ground-level pollution dispersion and monitoring conditions

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affecting wind energy generation. However, until now there have been no reliable references on SODAR and RASS for practitioners in the field as well as non-experts who wish to understand and implement

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this technology to their own applications. Authored by an internationally known expert in the design and use of SODAR/RASS technology, Atmospheric Acoustic Remote Sensing: Principles and Applications systematically

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explains the underlying science, principles, and operational aspects of acoustic radars. Abundant diagrams and figures, including eight pages of full-color images, enhance clear guidelines and tools

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for handling calibration, error, equipment, hardware, sampling, and data analysis. The final chapter explores applications in environmental research, boundary layer research, wind power and loading,

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complex terrain, and sound speed profiles. Atmospheric Acoustic Remote Sensing offers SODAR and RASS users as well as general remote sensing practitioners, environmental scientists, and engineers a

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straightforward guide for using SODARs to perform wind measurements and data analysis for scientific, environmental, or alternative monitoring applications.

Applications of Remote

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Sensing in Agriculture
Principles, Interpretation,
and Applications, Fourth
Edition

Fundamentals of Satellite
Remote Sensing
Principles and Applications,
Third Edition

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Remote Sensing Principles
And Applications

This book is an informative reference, or working textbook, on the mathematics, and general physical and chemical

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processes behind remote sensor measurements.

A quantitative yet accessible introduction to remote sensing techniques, this new edition covers a broad spectrum of Earth science

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applications.

Introduction to Remote Sensing: Digital Image Processing and Applications presents a unique textbook/downloadable resources package. It

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explains how digital images can be processed and offers practical hands-on experience of image processing. This package, which is ideal for student self-study, institutional or

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library purchase, shows how digital images can be processed to maximize information output and discusses a range of environmental monitoring techniques. A range of case

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studies are explored, drawn from a variety of disciplines and from across the world. The book also includes a practical manual of image processing instruction and detailed practical exercises

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to support the unique downloadable resources which accompanies the book. The downloadable resources contain fully functioning image processing software - a

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limited edition of DRAGON software developed specifically for readers of Introductory Remote Sensing - and over 70 satellite digital datasets for 9 scenes across America,

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Ireland, China, Sudan, Peru, Western Europe and the UK. Land management issues, such as mapping tree species, recognizing invasive plants, and identifying key geologic

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features, require an understanding of complex technical issues before the best decisions can be made. Hyperspectral remote sensing is one the technologies that can help

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with reliable detection and identification. Presenting the fundamentals of remote sensing at an introductory level, Hyperspectral Remote Sensing: Principles and Applications explores all

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major aspects of hyperspectral image acquisition, exploitation, interpretation, and applications. The book begins with several chapters on the basic concepts and

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underlying principles of remote sensing images. It introduces spectral radiometry concepts, such as radiance, irradiance, flux, and blackbody radiation; covers imaging

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spectrometers, examining spectral range, full width half maximum (FWHM), resolution, sampling, signal-to-noise ratio (SNR), and multispectral and hyperspectral sensor

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systems; and addresses atmospheric interactions. The book then discusses information extraction, with chapters covering the underlying physics principles that lead to the

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creation of an image and the interpretation of the image's information. The final chapters describe case studies that illustrate the use of hyperspectral remote sensing in agriculture,

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environmental monitoring, forestry, and geology. After reading this book, you will have a better understanding of how to evaluate different approaches to hyperspectral analyses and to determine

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which approaches will work for your applications.

***Advanced Remote Sensing Principles and Applications
Physical Principles of Remote Sensing
Introductory Remote***

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Principles And Applications

***Sensing Principles and
Concepts***

***Theory and Applications of
Optical Remote Sensing***

**A benchmark one-volume
reference to today's radar remote
sensing principles and**

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applications This second volume in the Third Edition of the Manual of Remote Sensing offers a current and comprehensive survey of the theory, methods, and applications of imaging radar for geoscientists, engineers, and

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application scientists interested in the advantages of radar remote sensing. Produced under the auspices of the American Society for Photogrammetry and Remote Sensing, it brings together contributions from experts

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around the world to discuss the basic principles of imaging radars and trace the research activity--past, present, and future--across the many sciences where radar remote sensing may be applied. This book offers an

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invaluable snapshot of radar remote sensing technology--including radargrammetry, polarimetry and interferometry--and its uses. It combines technical and procedural coverage of systems,

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data interpretation, and other fundamentals with generous coverage of practical applications in agriculture; forestry; soil moisture monitoring; geology; geomorphology and hydrology; oceanography; land use; land

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cover mapping; urban analysis; and archeology. Organized for quick access to topics of particular interest, this volume is important reading for researchers and professionals in many fields that can benefit from the use of

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radar remote sensing techniques. The accurate measurement of ecosystem biomass is of great importance in scientific, resource management and energy sectors. In particular, biomass is a direct measurement of carbon storage

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within an ecosystem and of great importance for carbon cycle science and carbon emission mitigation. Remote Sensing is the most accurate tool for global biomass measurements because of the ability to measure large areas.

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Current biomass estimates are derived primarily from ground-based samples, as compiled and reported in inventories and ecosystem samples. By using remote sensing technologies, we are able to scale up the sample

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values and supply wall to wall mapping of biomass. Three separate remote sensing technologies are available today to measure ecosystem biomass: passive optical, radar, and lidar. There are many measurement

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methodologies that range from the application driven to the most technologically cutting-edge. The goal of this book is to address the newest developments in biomass measurements, sensor development, field measurements

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and modeling. The chapters in this book are separated into five main sections.

A Beginner's Guide to the World of Satellite Data
Over a thousand active satellites are in orbit around the Earth with

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applications including navigation, the transmission of data and satellite remote sensing; a space-based technology providing data accessible to everyone. The Practical Handbook of Remote Sensing offers a complete

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**understanding of th
Fully updated edition of the
comprehensive, single-source
reference on satellite technology
and its applications Covering both
the technology and its
applications, Satellite Technology**

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is a concise reference on satellites for commercial, scientific and military purposes. The book explains satellite technology fully, beginning by offering an introduction to the fundamentals, before covering orbits and

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trajectories, launch and in-orbit operations, hardware, communication techniques, multiple access techniques, and link design fundamentals. This new edition also includes comprehensive chapters on

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Satellite Networks and Satellite Technology – Emerging Trends. Providing a complete survey of applications, from remote sensing and military uses, to navigational and scientific applications, the authors also present an inclusive

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compendium on satellites and satellite launch vehicles. Filled with diagrams and illustrations, this book serves as an ideal introduction for those new to the topic, as well as a reference point for professionals. Fully updated

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edition of the comprehensive, single-source reference on satellite technology and its applications - remote sensing, weather, navigation, scientific, and military - including new chapters on Satellite Networks and Satellite

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Technology – Emerging Trends
Covers the full range of satellite applications in remote sensing, meteorology, the military, navigation and science, and communications, including satellite-to-under sea

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communication, satellite cell-phones, and global Xpress system of INMARSAT The cross-disciplinary coverage makes the book an essential reference book for professionals, R&D scientists and students at post graduate

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level Companion website provides a complete compendium on satellites and satellite launch vehicles An ideal introduction for Professionals and R&D scientists in the field. Engineering Students. Cross disciplinary information

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for engineers and technical managers.

LiDAR Remote Sensing and Applications

Principles of Applied Remote Sensing

Remote Sensing

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**Principles of Remote Sensing
Hyperspectral Remote Sensing
In India, like the other
countries of the world, air-
borne and space-borne remote
sensing techniques is being
used in the research, planning**

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and development. This book deals with the basic principles of remote sensing such as definition and types of remote sensing, electromagnetic radiation and its interaction with matter, types of sensors

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and platforms, data products and visual and digital analysis and interpretation techniques. The applications of remote sensing in the appraisal and management of natural resources, temporal change

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detection in various terrain features and environmental problems.

A comprehensive, single-source reference on satellite technology and its applications, Satellite

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Technology: Principles and Applications, Second Edition includes the latest developments on the topic. Covering the features and facilities of satellites and satellite launch vehicles, with

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an emphasis on the fundamental principles and concepts, the authors provide readers with a complete understanding of the technology. This book explains the past, present and future

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satellite missions, as well as non-communication related applications. Coverage ranges from remote sensing and navigational uses to meteorological and military areas. This second edition

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contains an additional chapter on earth station design and gives extensive focus to space based weapon systems, satellite interference and future trends in satellite technology. Extra information

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has also been provided on all of the first edition's topics to enhance the existing coverage. Fully updated new edition with latest technological developments Covers the full range of important

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applications such remote sensing, weather forecasting, navigational, scientific and military applications Amply illustrated with figures and photographs, this book also contains problems with

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solutions, which is of benefit students at undergraduate and graduate levels An indispensable book for professionals and students in the field of satellite technology Companion website provides a

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**complete and updated
compendium on satellites and
satellite launch vehicles
This textbook is one of the first
to explain the fundamentals
and applications of remote
sensing at both undergraduate**

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and graduate levels. Topics include definitions and a brief history of payloads and platforms, data acquisition and specifications, image processing techniques, data integration and spatial

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modeling, and a range of applications covering terrestrial, atmospheric, oceanographic and planetary disciplines. The policy and law issues of remote sensing and the future trends on the

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horizon are also covered. Remote sensing is an exciting, dynamic technology that is transforming the Earth sciences - terrestrial, atmospheric, and marine - as well as the practices of

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agriculture, disaster response, engineering, natural resources, providing evidence in legal cases and documented humanitarian crises, and many other fields. Increasingly, understanding of these

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techniques will be central to a number of disciplines, particularly as the technology advances.

A significant step forward in the world of earth observation was made with the

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development of imaging spectrometry. Imaging spectrometers measure reflected solar radiance from the earth in many narrow spectral bands. Such a spectroscopical imaging

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system is capable of detecting subtle absorption bands in the reflectance spectra and measure the reflectance spectra of various objects with a very high accuracy. As a result, imaging spectrometry

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enables a better identification of objects at the earth surface and a better quantification of the object properties than can be achieved by traditional earth observation sensors such as Landsat TM and SPOT. The

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various chapters in the book present the concepts of imaging spectrometry by discussing the underlying physics and the analytical image processing techniques. The second part of the book

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presents in detail a wide variety of applications of these new techniques ranging from mineral identification, mapping of expansive soils, land degradation, agricultural crops, natural vegetation and

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surface water quality.

Additional information on extras.springer.com Sample hyperspectral remote sensing data sets and ENVI viewing software (Freelook) are available on

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<http://extras.springer.com>

**Mathematical Principles of
Remote Sensing**

**Manual of Remote Sensing:
Principles and applications of
imaging radar**

Remote Sensing : Principles

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And Applications (2Ed.) Comprehensive Remote Sensing Principles and Application

*Filling the need for a
comprehensive book that
covers both theory and*

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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

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monitoring from the local to the global scale. With contributions by leading scientists from aro
The only reference on the use of GIS and related technologies in terrain

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analysis In this landmark publication, reflecting the collaborative effort of thirteen research groups based in four countries, leading experts detail how GIS and related technologies, such as GPS and

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remote sensing, are now being used, with the aid of computer modeling, in terrain analysis. Continuing the innovative work of Professor Ian Moore, a visionary who saw terrain analysis as a robust method

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for modeling the large areas and complex spatial patterns of environmental systems, Terrain Analysis puts into action TAPES, or Terrain Analysis Programs for Environmental Sciences, Dr.

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Moore's innovative tool for terrain analysis. The book's contributors describe how TAPES are applied to specific geomorphologic problems, explain the algorithms used in current terrain analysis

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software, and examine the interpretation and use of terrain attributes in predictive models. With expert coverage of terrain analysis in the digital age, Terrain Analysis will be welcomed by

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ecologists, environmental engineers, geographers, and hydrologists who increasingly depend on GIS, GPS, and remote sensing.

This comprehensive introductory text presents a

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timely overview of the most widely used forms of remote sensing imagery and their applications in plant sciences, hydrology, earth sciences, and land-use analysis.

Advanced Remote Sensing is

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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

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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,

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*atmospheric science,
environmental science,
planetary science and ecology
will have access to critically-
important data extraction
techniques and their virtually
unlimited applications. While*

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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.

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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

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chapters More than 500 full-color figures and tables Edited by top remote sensing experts with contributions from authors across the geosciences Practical Handbook of Remote Sensing

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Remote Sensing of Vegetation
Remote Sensing Principles and Applications to Earth Resources Survey
Microwave and Millimeter-wave Remote Sensing for Security Applications

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*An Environmental Approach,
Second Edition*

Applications of Remote Sensing in Agriculture
contains the proceedings of
the 48th Easter School in
Agricultural Science, held at

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the University of Nottingham on April 3-7, 1989. The meeting invites 146 delegates from over 22 countries and contributions to this book come from nine countries. This book generally presents a

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review of the achievements of remote sensing in agriculture, establishes the state of the art, and gives pointers to developments. This text is organized into seven parts, wherein Parts I-III cover the

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principles of remote sensing, climate, soil, land classification, and crop inventories. Productivity; stress; techniques for agricultural applications; and opportunities, progress, and

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prospects in the field of remote sensing in agriculture are also discussed.

Remote sensing has undergone profound changes over the past two decades as GPS, GIS, and sensor

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advances have significantly expanded the user community and availability of images. New tools, such as automation, cloud-based services, drones, and artificial intelligence, continue to expand and

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enhance the discipline. Along with comprehensive coverage and clarity, Sabins and Ellis establish a solid foundation for the insightful use of remote sensing with an emphasis on principles and a focus on

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sensor technology and image acquisition. The Fourth Edition presents a valuable discussion of the growing and permeating use of technologies such as drones and manned aircraft imaging,

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DEMs, and lidar. The authors explain the scientific and societal impacts of remote sensing, review digital image processing and GIS, provide case histories from areas around the globe, and

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describe practical applications of remote sensing to the environment, renewable and nonrenewable resources, land use/land cover, natural hazards, and climate change. •

Remote Sensing Digital

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Database includes 27 examples of satellite and airborne imagery that can be used to jumpstart labs and class projects. The database includes descriptions, georeferenced images, DEMs,

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maps, and metadata. Users can display, process, and interpret images with open-source and commercial image processing and GIS software.

- Flexible, revealing, and instructive, the Digital Image**

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Processing Lab Manual provides 12 step-by-step exercises on the following topics: an introduction to ENVI, Landsat multispectral processing, image processing, band ratios and principal

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components, georeferencing, DEMs and lidar, IHS and image sharpening, unsupervised classification, supervised classification, hyperspectral, and change detection and radar. • Introductory and

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instructional videos describe and guide users on ways to access and utilize the Remote Sensing Digital Database and the Digital Image Processing Lab Manual. • Answer Keys are available for instructors for

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questions in the text as well as the Digital Image Processing Lab Manual.

Comprehensive Remote Sensing covers all aspects of the topic, with each volume edited by well-known

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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

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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

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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

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that can comprehensively document the development of remote sensing, from the basic principles, modeling and practical algorithms, to various applications. Fully comprehensive coverage of

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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

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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

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principles, further enhancing understanding

Remote sensing refers to the use of the satellite, which is used to detect objects on Earth. Remote sensing is mainly classified into active or

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passive remote sensing. It is mainly used in fields such as oceanography, hydrology, geography, etc. This book aims to equip students and experts with the advanced topics and upcoming concepts

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in the area of remote sensing and spatial science. A number of latest researches have been included in this book to keep the readers up-to-date with the global concepts in this area of study. For someone with an

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interest and eye for detail, this book covers the most significant topics in the field of remote sensing and spatial science.

Remote Sensing of Land Use and Land Cover

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**Terrestrial Information
Extraction and Applications
Thermal Infrared Remote
Sensing
Remote Sensing of Biomass
Basic Principles and
Prospective Applications**

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The science and engineering of remote sensing--theory and applications The Second Edition of this authoritative book offers readers the essential

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science and engineering foundation needed to understand remote sensing and apply it in real-world situations. Thoroughly updated to reflect the tremendous

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technological leaps made sincethe publication of the first edition, this book covers the gamut ofknowledge and skills needed to work in this dynamic field,including: *

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Physics involved in wave-matter interaction, the building blocks for interpreting data * Techniques used to collect data * Remote sensing applications The

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authors have carefully structured and organized the book to introduce readers to the basics, and then move on to more advanced applications. Following an

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***introduction, Chapter 2
sets forth the basic
properties of
electromagnetic waves
and their interactions with
matter. Chapters 3
through 7 cover the use***

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of remote sensing in solid surface studies, including oceans. Each chapter covers one major part of the electromagnetic spectrum (e.g., visible/near infrared,

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thermal infrared, passive microwave, and activemicrowave).

Chapters 8 through 12 then cover remote sensing in the study of atmospheres and

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ionospheres. Each chapter first presents the basic interaction mechanism, followed by techniques to acquire, measure, and study the information, or waves,

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emanating from the medium under investigation. In most cases, a specific advanced sensor is used for illustration. The book is generously illustrated

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with fifty percent new figures. Numerous illustrations are reproduced in a separate section of color plates. Examples of data acquired from spaceborne

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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-

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yeargraduate course taught by the authors at the California Institute of Technology. Because of the multidisciplinary nature of the field and its applications, it is

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appropriate for students in electrical engineering, applied physics, geology, planetary science, astronomy, and aeronautics. It is also recommended for any

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engineer or scientist interested in working in this exciting field.

Designed for an introductory course in remote sensing, this highly regarded text

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offers 28 pages with color photos, Sabins trademark clarity, and comprehensive coverage. The first chapter vividly introduces the major remote sensing systems

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and the interactions between electromagnetic energy and materials that are the basis for remote sensing. Six following chapters describe the major imaging systems.

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After a digital image-processing chapter, Sabins devotes the rest of the text to descriptions of practical applications of remote sensing to environmental

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monitoring, oil and mineral exploration, land-use and geographic information systems, and natural hazards.

Fundamentals of Satellite Remote Sensing: An

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Environmental Approach, Second Edition is a definitive guide to remote sensing systems that focuses on satellite-based remote sensing tools and methods for space-based

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Earth observation (EO). It presents the advantages of using remote sensing data for studying and monitoring the planet, and emphasizes concepts that make the best use of

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satellite data. The book begins with an introduction to the basic processes that ensure the acquisition of space-borne imagery and provides an overview of

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the main satellite observation systems. It then describes visual and digital image analysis, highlights various interpretation techniques, and outlines

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their applications to science and management. The latter part of the book covers the integration of remote sensing with GIS for environmental analysis.

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Based on the first English version published in 2010, this latest edition has been written to reflect a global audience, and factors in international debates and

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legal issues surrounding EO, as well as future developments and trends. New in the Second Edition: Includes additional illustrations now in full color Uses

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sample images acquired from different ecosystems at different spatial resolutions to illustrate different interpretation techniques Updates information on recent

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***satellite missions
(Landsat-8, Sentinel-2,
hyperspectral and
hyperspatial programs)
Covers near-ground
missions (including UAV)
and ground sensors***

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***(spectro-radiometers, cameras, LIDAR, etc.) to support EO analysis
Offers analysis of image spatial properties
Presents material on visual analysis, time***

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series analysis, and data fusion Provides examples of EO data that cover different environmental problems, with particular relevance to global observation

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Principles And Applications

***Fundamentals of Satellite
Remote Sensing: An
Environmental Approach,
Second Edition details the
tools that provide global,
recurrent, and
comprehensive views of***

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the processes affecting the Earth and is a must-have for researchers, academics, students, and professionals involved in the field of environmental science.

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This book, designed to serve as a textbook for graduate and post-graduate students, presents a systematic and convincing exposition of the science and

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technology of Remote Sensing at a cultural level so that it is understood by the young and adult learners alike. It is meticulously planned to offer conceptual clarity

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and understanding to the readers on the high-tech subjects of Remote Sensing, GIS and GPS. Every chapter of this book is appended by

Suggestions for

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Supplementary Reading in which large number of reference materials - books and research papers, are meticulously chosen and presented for developing continued

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interest and creative imagination in such candidates who can embark upon innovative work in their respective fields of specialization using the powerful

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Principles And Applications

***Remote Sensing and GIS
techniques.***

***Making Inferences from
Noisy Data***

Atmospheric Acoustic

Remote Sensing

Principles and

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***Interpretation
Manual of Remote
Sensing: Principles and
applications of imaging
radar (textbook)
Remote Sensing and
Spatial Science:***

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Access Free Remote Sensing Principles And Applications

Principles and Applications

This open access book focuses on the practical application of electromagnetic polarimetry principles in Earth remote sensing with an educational purpose. In the

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last decade, the operations from fully polarimetric synthetic aperture radar such as the Japanese ALOS/PaISAR, the Canadian Radarsat-2 and the German TerraSAR-X and their easy data access for scientific use have developed further the research and

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data applications at L,C and X band. As a consequence, the wider distribution of polarimetric data sets across the remote sensing community boosted activity and development in polarimetric SAR applications, also in view of future missions. Numerous experiments

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with real data from spaceborne platforms are shown, with the aim of giving an up-to-date and complete treatment of the unique benefits of fully polarimetric synthetic aperture radar data in five different domains: forest, agriculture, cryosphere, urban and

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oceans.

Remote sensing today.

Electromagnetic radiation at the Earth's surface. Aerial photography.

Aerial sensor imagery. Satellite sensor imagery. Image processing.

Sources of data. Remote sensing journals and symposia.

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An accessible yet rigorous introduction to remote sensing and its application to the study of vegetation for advanced undergraduate and graduate students. The underlying physical and mathematical principles of the techniques discussed are

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explained in a way readily understood by those without a strong mathematical background.

Imaging Spectrometry

Polarimetric Synthetic Aperture Radar

Manual of Remote Sensing, Principles and Applications of

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Imaging Radar

Remote Sensing : Principles and Applications, 2nd Ed.

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