



Progress in Earth Sciences  
in Geography  
and Environmental Sciences

EDITED BY  
JAMES C. CLARKE  
General Editor

FUNDAMENTALS OF  
GEOLOGICAL AND  
ENVIRONMENTAL  
REMOTE SENSING  
ROBERT K. VINCENT

# Fundamentals Of Geological And Environmental Remote Sensing

**Ranjan S. Muttiah**



## **Fundamentals Of Geological And Environmental Remote Sensing:**

Fundamentals of Geological and Environmental Remote Sensing Robert K. Vincent, 1997 Aims to present remote sensing as it applies to environmental monitoring It features mineral and petroleum remote sensing There is a focus on multispectral applications and digital photogrammetry Ratio codes and brightness codes are included in an appendix This has reduced the spectra of minerals to simple one digit per band codes helping the user select the best bands or ratios to highlight a mineral Imaging gases especially methane have been included With the book students can perform elevation extraction from digitized stereo pairs Case studies appear throughout the text allowing students to see how remote sensing is used in petroleum and mining companies

Introductory Remote Sensing Principles and Concepts Paul Gibson, With contributions from Clare Power, 2013-04-15 Introduction to Remote Sensing Digital Image Processing and Applications presents a unique textbook downloadable resources package It 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 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 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 to support the unique downloadable resources which accompanies the book The downloadable resources contain fully functioning image processing software a limited edition of DRAGON software developed specifically for readers of Introductory Remote Sensing and over 70 satellite digital datasets for 9 scenes across America Ireland China Sudan Peru Western Europe and the UK

*Remote Sensing Geology* Ravi P. Gupta, 2017-11-24 Over the past decade advances in sensor technology processing algorithms and computational capacity have taken remote sensing to a level where observations can be transformed into quantitative measurements and the technology can be used in near real time for mapping monitoring and decision making For the third edition this widely acclaimed book has been fully revised enlarged and updated It covers remote sensing in a wide range of optical thermal and microwave wavelengths and their host of geologic applications featuring sample applications from around the globe In addition it presents state of the art content on emerging themes such as atmospheric interactions spectroscopy spectral indices prospectivity modelling and multi sensor geodata integration The subject matter is presented at a basic level offering students an excellent introductory text on remote sensing Further the main part of the book will also be of great value to active researchers Excerpt from the review of Remote Sensing Geology 2nd ed 2003 International Journal of Applied Earth Observation and Geoinformation 5 2004 239 240 Graduate students research workers and professional earth scientists will use this book to their advantage and with pleasure it is well written to the point and with an emphasis on understanding the principles underlying this wide spectre of technology in its application to the earth sciences Remote sensing is a fascinating subject so is geology The author has fully succeeded in providing a fascinating book that

combines them in a handy volume Jan J Nossin      *Remote Sensing* Floyd F. Sabins, Jr., James M. Ellis, 2020-04-01 Remote sensing has undergone profound changes over the past two decades as GPS GIS and sensor 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 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 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 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 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 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 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 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 components georeferencing DEMs and lidar IHS and image sharpening unsupervised classification supervised classification hyperspectral and change detection and radar Introductory and 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 questions in the text as well as the Digital Image Processing Lab Manual

**Geoinformatics for Geosciences** Nikolaos Stathopoulos, Andreas Tsatsaris, Kleomenis Kalogeropoulos, 2023-05-26 Geoinformatics for Geosciences Advanced Geospatial Analysis using RS GIS and Soft Computing is a comprehensive guide to the methodologies and techniques that can be used in Earth observation data assessments geospatial analysis and soft computing in the geosciences The book covers a variety of spatiotemporal problems and topics in the areas of the environment geohazards urban analysis health pollution climate change resources and geomorphology among others Sections cover environmental and climate issues analysis of geomorphological data hazard and disaster impacts natural and human resources the influence of environmental conditions geohazards climate change geomorphological changes etc and socioeconomic challenges Detailing up to date techniques in geoinformatics this book offers in depth up to date methodologies for researchers and academics to understand how contemporary data can be combined with innovative techniques and tools in order to address challenges in the geosciences Focuses on a variety of interdisciplinary applications using Earth observation data GIS and soft computing techniques to address various challenges in the geosciences Presents both innovative techniques and specific features of the practices described thus allowing readers to choose the most

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**From Laboratory Spectroscopy to Remotely Sensed Spectra of Terrestrial Ecosystems** Ranjan S. Muttiah, 2013-06-29 Remote sensing of the environment is covered through spectroscopic analysis of soil and vegetation response during active and passive sensing Fundamental aspects of spectroscopic methods for environmental applications are given Applications range from remote sensing of saline soils soil moisture detection landscape evolution weed detection fluorescence imaging and use of vegetation indices to measure ecosystem variables such as plant stress

Proceedings of the Thirteenth International Conference, Applied Geologic Remote Sensing ,1999

**Encyclopedia of Geology** ,2020-12-16 Encyclopedia of Geology Second Edition presents in six volumes state of the art reviews on the various aspects of geologic research all of which have moved on considerably since the writing of the first edition New areas of discussion include extinctions origins of life plate tectonics and its influence on faunal provinces new types of mineral and hydrocarbon deposits new methods of dating rocks and geological processes Users will find this to be a fundamental resource for teachers and students of geology as well as researchers and non geology professionals seeking up to date reviews of geologic research Provides a comprehensive and accessible one stop shop for information on the subject of geology explaining methodologies and technical jargon used in the field Highlights connections between geology and other physical and biological sciences tackling research problems that span multiple fields Fills a critical gap of information in a field that has seen significant progress in past years Presents an ideal reference for a wide range of scientists in earth and environmental areas of study

**GIS World** ,1998

**Exploring Space, Exploring Earth** Paul D. Lowman, 2002-08-15 An account of the impact of space exploration on our understanding of the geology and geophysics of Earth

Introduction to Environmental Physics Peter Hughes, N.J. Mason, 2001-04-26 The changing climate and its affect on all of us is becoming increasingly apparent ozone depletion hurricanes floods and extreme weather behaviour Introduction to Environmental Physics challenges the way we think about how and why environmental change occurs This authoritative book aims to cover some of the more common and popular topics a

**Hydrology of Mediterranean and Semiarid Regions** Eric Servat, 2003

**Monitoring of Harmful Algal Blooms** Lasse H. Pettersson, Dmitry Pozdnyakov, 2012-07-25 Monitoring of Harmful Algae Blooms is a timely guide to the research techniques in use to monitor visible algae blooms and through remote sensing including infrared techniques predict them through mathematical modeling Drawing on current and future satellite data the book presents visible perspectives on a more efficient HAB monitoring system for the future It also emphasizes practical applications impacting on marine ecology national economy health food and safety and quality assurance

**Pollution Assessment for Sustainable Practices in Applied Sciences and Engineering** Abdel-Mohsen O. Mohamed, Evan K. Paleologos, Fares Howari, 2020-10-25 Pollution Assessment for Sustainable Practices in Applied Sciences and Engineering provides an integrated reference for academics

and professionals working on land air and water pollution The protocols discussed and the extensive number of case studies help environmental engineers to quickly identify the correct process for projects under study The book is divided into four parts each of the first three covers a separate environment Geosphere Atmosphere and Hydrosphere The first part covers ground assessment contamination geo statistics remote sensing GIS risk assessment and management and environmental impact assessment The second part covers atmospheric assessment topics including the dynamics of contaminant transport impacts of global warming indoor and outdoor techniques and practice The third part is dedicated to the hydrosphere including both the marine and fresh water environments Finally part four examines emerging issues in pollution assessment from nanomaterials to artificial intelligence There are a wide variety of case studies in the book to help bridge the gap between concept and practice Environmental Engineers will benefit from the integrated approach to pollution assessment across multiple spheres Practicing engineers and students will also benefit from the case studies which bring the practice side by side with fundamental concepts Provides a comprehensive overview of pollution assessment Covers land underground water and air pollution Includes outdoor and indoor pollution assessment Presents case studies that help bridge the gap between concepts and practice Spatial Analysis of Coastal Environments Sarah M. Hamylton, 2017-04-13 This book covers the spatial analytical tools needed to map monitor and explain or predict coastal features with accompanying online exercises *Integrated Methods in Catchment Hydrology* International Association of Hydrological Sciences, 1999

**Environmental Health Perspectives**, 1993 Gold Deposits in Egypt Zakaria Hamimi, Richard J. Goldfarb, Biswajeet Pradhan, Yasser Abd El-Rahman, Abdel-Rahman Fowler, Amr Abdelnasser, Mohamed Abd El Monsef, 2025-08-13 This book aims at young generations of geoscientists researches and other professional specialists The book is composed of a number of chapters addressing gold deposits in terms of their types genesis settings and spatiotemporal distribution Chapter 1 examines the tectonics and regional geology of the Egyptian Nubian Shield within the frame of the Arabian Nubian Shield and the East African Orogen Chapter 2 highlights gold deposit types and settings Chapter 3 addresses the African Gold that is connecting north and south Chapters 4 and 5 are dealing with ancient gold mining in Egypt and geographical analysis of the ancient Egyptian Turin Papyrus Map 1150 B C Chapter 6 reviews gold mineralization in the Egyptian segment of the northern continuation of the East African Orogen Gold in volcanogenic massive sulfide deposits and orogenic gold deposits are presented in Chapters 7 and 8 The geologic setting and genesis of gold mineralization at the extreme SW and S Egyptian Eastern Desert are treated in Chapters 9 and 10 Chapters 11 12 16 and 17 demonstrate how to detect gold bearing alteration zones in Egypt using remote sensing techniques as well as how to recognize and map gold bearing zones Multi stage hydrothermal processes at gold deposits placer gold deposits and gold deposits in Nasser High Dam Reservoir are given in Chapters 13 14 and 15 Chapter 18 discusses the application of artificial intelligence in gold exploration The Sukari Gold Deposit is dealt with in Chapter 19 Chapters 20 and 21 examine geochemical exploration and mineralogical characteristics of

gold deposits and some gold mine tailings and their potential hazards Chapter 22 is exploring the dream of wealth in the Egyptian Eastern Desert The last chapters explore the role of microorganisms in the rehabilitation of ancient gold mines Egyptian gold ore processing and extraction and opportunities and challenges for gold investment in Egypt

**Impact Cratering** G. R. Osinski, E. Pierazzo, 2012-10-17 Impact cratering is arguably the most ubiquitous geological process in the Solar System It has played an important role in Earth's history shaping the geological landscape affecting the evolution of life and generating economic resources However it was only in the latter half of the 20th century that the importance of impact cratering as a geological process was recognized and only during the past couple of decades that the study of meteorite impact structures has moved into the mainstream This book seeks to fill a critical gap in the literature by providing an overview text covering broad aspects of the impact cratering process and aimed at graduate students professionals and researchers alike It introduces readers to the threat and nature of impactors the impact cratering process the products and the effects both destructive and beneficial A series of chapters on the various techniques used to study impact craters provide a foundation for anyone studying impact craters for the first time

**Civil Engineering - Volume I** Kiyoshi Horikawa, Qizhong Guo, 2009 Civil Engineering is the component of Encyclopedia of Physical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Civil Engineering is the oldest of the engineering specialties and has contributed very much to develop our society throughout the long history of human life The advancement of civil engineering has therefore been closely related to that of civilization In this theme human activities on the earth from ancient times to the present are briefly reviewed first and then the history of the process to establish the civil engineering discipline is discussed for better understanding of the important role that civil engineering has played in the growth of a mature society from both technological and social points of view Broad diversification of civil engineering has resulted from the enormous expansion of society during the latter half of the twentieth century The various branches are briefly described to show the notable characters that civil engineering has formed to maintain the sustainable development of society The Theme on Civil Engineering with contributions from distinguished experts in the field provides the essential aspects and fundamentals of civil engineering The two volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers NGOs and GOs

## Reviewing **Fundamentals Of Geological And Environmental Remote Sensing**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Fundamentals Of Geological And Environmental Remote Sensing**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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