



GIS
Manuals
PE&RS
Photogrammetry
Proceedings
Remote Sensing

ASPRS Publications Catalog

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NEW



Hyperspectral Remote Sensing for Forestry Monograph

Paul Treitz, Valerie Thomas, Pablo J. Zarco-Tejada, Peng Gong, and Paul J. Curran

107 pp. Softcover. 2010
1-57083-093-2
Stock #4584
List Price: \$26
ASPRS Members: \$21
Student Members: \$21

Hyperspectral Remote Sensing for Forestry provides a clear and concise description of the role of hyperspectral remote sensing for the extraction of biophysical / biochemical information about forests. This monograph covers the fundamental principles related to the importance of high spectral resolution data for the identification of spectral features related to plant biochemistry and physiology. Various methods of hyperspectral data analysis are discussed, with specific attention given to spectral indices, spectral mixture analysis and canopy reflectance modeling. A number of case studies are presented that cover applications related to: (i) forest classification based on species biochemical composition; (ii) forest canopy structural analysis; (iii) spectral unmixing; and (iv) fusion of hyperspectral and lidar data for species mapping. This volume will be of significant interest to the remote sensing scientist and practitioner as well as senior undergraduate and graduate students interested in hyperspectral remote sensing for vegetation analyses.

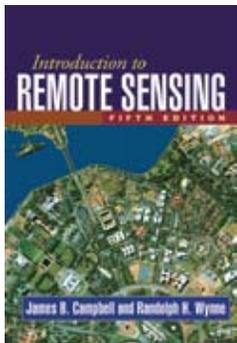


Why "Where" Matters

Robert (Bob) Ryerson and Stan Aronoff

KIM Geomatics Corporation
379 pp. Softcover. 2010
978-0-9866376-0-5
Stock #4585
List price: \$60
ASPRS Members: \$48
Student Members: \$48

This book is written for the individual, the business person, communities and for governments (politicians and bureaucrats) everywhere who want to become or remain successful in the new economic era that we have just entered which is driven by and dependent on geospatial or geographic information. This book uses clear language and ample illustrations to describe how we got to where we are and provides a simple but accurate introduction to the major geospatial technologies being used today. Those who understand how to use the new geospatial technologies gain a significant competitive advantage as they replace Geo-luck with Geo-advantage. This book identifies the key geospatial technologies you need to know, what they can do, and how individuals, business, and government will profit from them as they increasingly power our future economic well-being. It closes with advice on how these technologies can be applied to the benefit of the reader, no matter who—or where—that reader may be.



Introduction to Remote Sensing, 5th Edition

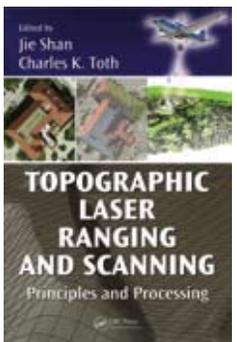
James B. Campbell and Randolph H. Wynne

The Guilford Press
662 pp. Hardcover. 2011
978-1-60918-176-5
List Price: \$94
ASPRS Members: \$85

A leading text for undergraduate- and graduate-level courses, this book introduces widely used forms of remote sensing imagery and their applications in plant sciences, hydrology, earth sciences, and land use analysis. The text provides comprehensive coverage of principal topics and serves as a framework for organizing the vast amount of remote sensing information available on the Web. Including case studies and review questions, the book's 4 sections and 21 chapters are carefully designed as independent units that instructors can select from as needed for their courses. Illustrations include 29 color plates and over 400 black-and-white figures.

New to This Edition

- Reflects significant technological and methodological advances.
- Chapter on aerial photography now emphasizes digital rather than analog systems.
- Updated discussions of accuracy assessment, multitemporal change detection, and digital preprocessing.
- Links to recommended online videos and tutorials.



Topographic Laser Ranging & Scanning Principles & Process

Jie Shan and Charles Toth

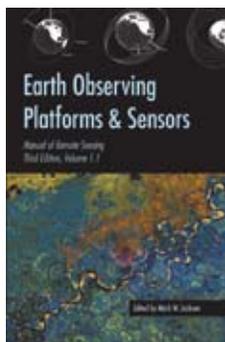
CRC Press
590 pp. Hardcover. 2008
978-1-42005-142-1
Stock #4583
List Price: \$124
ASPRS Members: \$97
Student Members: \$90

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.

Cutting-Edge Breakthroughs in LiDAR Data Extraction and Processing

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.

THE MANUAL OF REMOTE SENSING, 3rd EDITION (A SERIES)



Volume 1.1: Earth Observing Platforms & Sensors

Volume Editor: Mark Jackson

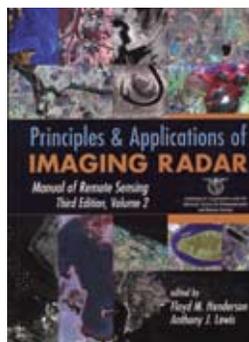
550 pp. Hardcover. 2009
ISBN: 1-57083-086-X
Stock #4582
List Price: \$70

ASPRS Members: \$55
Student Members: \$40

Examination Copy: See page 8 for details.

This volume of the Manual of Remote Sensing series, Volume 1.1: *Earth Observing Platforms & Sensors*, updates the previous CD-ROM database of sensors and platforms with an interactive online database and adds chapters of context for major families of sensors and platforms. The intent of this volume is to enable all who have an interest in remote sensing—from student to researcher to practitioner—to see what the possibilities are, how the field has developed and where it is going.

The accompanying website (accessible at www.asprs.org) is designed to provide basic information about as many sensors and platforms as possible, while also pointing to additional sources of information on the web and in technical and scholarly publications. ASPRS members are invited to help maintain and expand the data in this database as a community resource.



Volume 2: Principles & Applications of Imaging Radar

Editor-in-Chief:

Robert A. Ryerson

Volume Editors:

Floyd M. Henderson
and Anthony J. Lewis

John Wiley & Sons Publishers
896 pp. Hardcover. 1998
ISBN 0-471-29406-3
Stock #4545
List Price: \$250

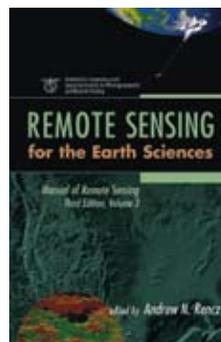
ASPRS Members: \$185
Student Members: \$145

This volume presents the fundamentals of imaging radar from the systems and applications perspective, and stands as the foundation for active imaging radar systems. The Manual establishes the benchmarks against which we track our progress in the future of radar remote sensing in the geosciences.

Students, practitioners, and remote sensing scientist will benefit from this important reference and research tool.

Chapters

1. Introduction
2. Radar fundamentals
3. Radar fundamentals: Geoscience perspective
4. Radargrammetry
5. Polarimetry
6. Interferometry
7. Agriculture
8. Soils
9. Forestry
10. Geology
11. Geomorphology/hydrology
12. Oceanography
13. Snow/ice
14. Land use/land cover
15. Urban/population/settlement
16. Archaeology



Volume 3: Remote Sensing for the Earth Sciences

Editor-in-Chief:

Robert A. Ryerson

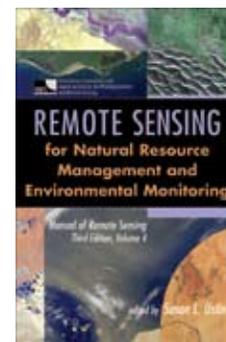
Volume Editor: Andrew B. Rencz

John Wiley & Sons Publishers
728 pp. Hardcover. 1999
ISBN 0-471-29405-5
Stock # 4546
List Price: \$198
ASPRS Members: \$150
Student Members: \$120

This third volume of the Manual of Remote Sensing is a comprehensive, up-to-date resource for geologists, geophysicists, and all earth scientists.

Features

- Organized for quick access to topics of particular interest, beginning with coverage of spectral characteristics that focus on the theory of rock, mineral, soil, and vegetation spectra, as well as planetary geology.
- A section on data analysis is devoted to procedures used in information extraction and techniques used in the visual display of data, particularly in the integration of various geospatial data.
- A section on applications of remote sensing in mineral and hydrocarbon exploration, stratigraphic mapping, engineering geology, and environmental studies.
- The final chapters offer a discussion of sensors relevant to the earth sciences – including radar, visible, infrared, and geophysical sensors – along with case study examples.



Volume 4: Remote Sensing for Natural Resource Management & Environmental Monitoring

Editor-in-Chief: Andrew B. Rencz

Volume Editor: Susan Ustin

John Wiley & Sons Publishers
848+ pp. Hardcover + CD-ROM. 2004
ISBN: 0-471-31793-4
Stock # 4571
List Price: \$225
ASPRS Members: \$165
Student Members: \$135

Volume 4 addresses the use of remote sensing technology in natural resource management and environmental monitoring. Comprehensive, authoritative, and up-to-date, it covers terrestrial ecosystems, aquatic ecosystems, and agriculture ecosystems, as well as future directions in technology and research.

Chapters

1. Soils and Soil Processes
2. Biophysical Remote Sensing Signatures of Arid and Semi-arid Ecosystems
3. Arid Regions: Challenges and Opportunities
4. Temperate and Boreal Forests
5. Tropical Forests
6. Tropical Freshwater Wetlands
7. Rivers & Lakes
8. Coastal Margins and Estuaries
9. Grazing Agriculture - Managed Pasture, Grassland and Rangeland
10. Dryland Crops
12. Application of Image-based Remote Sensing to Irrigated Agriculture
13. Environmental Processes: State of the Science and New Directions

SPECIAL DISCOUNT OFFER

(items must be purchased as part of the same order)

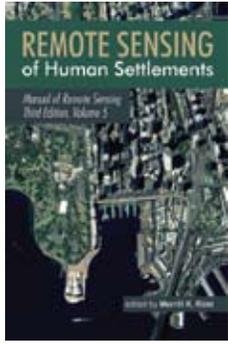
Buy two, get the third half off (Volumes 1.1, 5 and 6 only).

SPECIAL SET OFFER – 15% off (Stock #4553)

Items must be purchased as part of the same order. Special Set Offer does not apply to previous orders or items purchased separately.

Purchase all six volumes (1-6) of the Manual of Remote Sensing, 3rd Edition at a special price.

List Price: \$776 ASPRS Members: \$582 Student Members: \$459



Manual of Remote Sensing, 3rd edition, Vol. 5: Remote Sensing of Human Settlements

Editor-in-Chief: Andrew B. Rencz
Volume Editors: Merrill K. Ridd & James D. Hipple

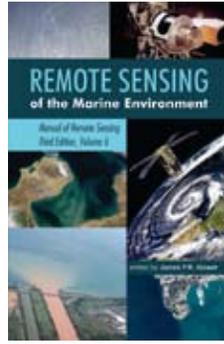
747+ pp. Hardcover. 2005
ISBN 1-57083-077-0
Stock # 4576
List Price: \$90
ASPRS Members: \$70
Student Members: \$55

Examination Copy: See page 8 for details.

Remote Sensing of Human Settlements assumes a human settlement to be an ecosystem, where humans and the natural environment are interacting, from the smallest village to the complex metropolis. Section I begins with historical highlights of mapping settlements, remotely, from the 19th century to the present, then presents basic theory regarding visible, microwave, and thermal principles, discusses methods of characterizing human settlements, image processing methods, and information extraction techniques. Section II presents thematic applications in population estimates, human health, hazards to settlements, archaeology, and the dynamics of human settlements through various techniques. Finally, Section III presents selected forward-looking thematic challenges to the remote sensing community, along with a listing of the latest and forthcoming instruments.

Chapters

1. Historical Evolution and Mapping of Human Settlements
2. Principles and Tools for Remote Sensing of Human Settlements
3. Characterizing and Mapping Human Settlements
4. Image Processing Methods
5. Information Extraction
6. Estimating Population and Census Data
7. Satellites, Settlements, and Human Health
8. Remote Sensing of Natural and Man-made Hazards and Disasters
9. Archaeological Remote Sensing of Early Human Settlements
10. Documenting Dynamics of Human Settlements
11. Current Research and Future Directions in the Application of Remote Sensing to Human Settlements
12. New and Emerging Instruments and Some Emerging Trends for Remote Sensing of Human Settlements
13. A View to the Future



Manual of Remote Sensing, 3rd edition, Vol. 6: Remote Sensing of the Marine Environment

Editor-in-Chief: Andrew B. Rencz
Volume Editor: James F.R. Gower

360 pp. Hardcover. 2006
ISBN 1-57083-080-0
Stock # 4578
List Price: \$80
ASPRS Members: \$60
Student Members: \$45

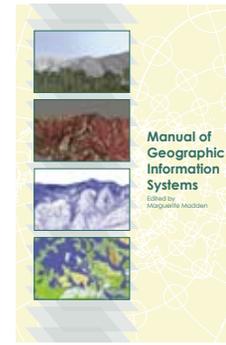
Examination Copy: See page 8 for details.

Remote Sensing of the Marine Environment is a comprehensive, up-to-date resource for oceanographers and marine scientists interested in applications of satellite imagery and other remote sensing techniques to studying and monitoring ocean and coastal waters. The volume is organized for quick access to topics of particular interest, with chapters on ocean productivity, circulation, pollution, wind, planetary waves, sea ice and coastal processes. The first chapter reviews the history of satellite observations of the ocean, noting the contribution from different countries and the interactions of military and civilian interests.

Printed in color throughout, with Internet sources, helpful illustrations and extensive references, this volume is a major resource for researchers and practitioners working in marine environmental sciences.

Chapters

1. A History of Oceanography from Space
2. Large-scale Ocean Circulation
3. Remote Sensing of Extratropical Planetary Waves
4. Global- and Ocean-scale Primary Production from Satellite Observations
5. Measuring Ocean Surface Wind from Space
6. Coastal Physical and Biochemical Processes
7. Remote Sensing of Marine Pollution
8. Sea Ice Monitoring by Remote Sensing
9. Toward a Global Ocean System for Measurements of Optical Properties Using Remote Sensing and *In Situ* Observations



Manual of Geographic Information Systems

Marguerite Madden, PhD, editor
Foreword by Jack Dangermond, ESRI

ISBN: 1-57083-086-X
Hardcover
1352 pages + DVD
July 2009
Stock #4650
List Price: \$135
ASPRS Members: \$110
Student Members: \$80

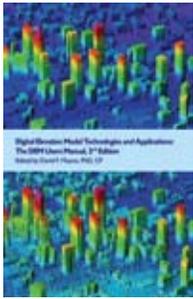
Examination Copy: See page 8 for details.

The Manual of Geographic Information Systems is the latest addition to the rich collection of ASPRS manuals. Until now; however, there has never been a manual devoted to geographic information systems (GIS). This volume is designed to be a comprehensive resource on GIS for students, researchers and practitioners who are interested in asking spatial questions, assessing landscapes, building geodatabases and envisioning a world of integrated geospatial technologies.

The book has been organized in eight major sections: Background and Overview; Data Models, Metadata and Ontology; GIS Data Quality and Uncertainty; Spatio-Temporal Aspects of GIS; Analysis and Modeling; Blending GIS with Remote Sensing, GPS and Visualization; GIS and the World Wide Web and GIS Applications. Top researchers in GIS from around the world, along with emerging scholars, have told the story of a discipline that originated alongside advances in computer technology and is increasingly incorporated into our daily lives. The wide range of topics covered in the 62 chapters of this volume attest to the role GIS plays in blurring the boundaries between traditional photogrammetry, remote sensing, land surveying, geodesy, cartography, and computer science. *The Manual of Geographic Information Systems* provides a conceptual framework for data connected to location, the language needed for spatial conversation and analysis tools for discovery of geographic place, proximity, dimensions, trends and correlations.

The DVD that accompanies this book contains more than 300 color figures plus digital content contributed by leading GIS companies, agencies and institutions.

MANUALS



Digital Elevation Model Technologies and Applications: The DEM Users Manual, 2nd Edition

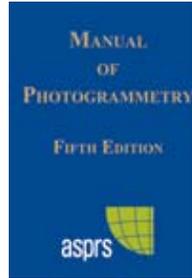
David F. Maune, PhD, CP, Editor

620+ pp. Hardcover + DVD. 2007
ISBN 1-57083-082-7
Stock # 1069
List Price: \$148
ASPRS Members: \$90; Student Members: \$65
Examination Copy: See page 8 for details.

This *DEM Users Manual* is designed to help potential users of digital elevation data understand and articulate their requirements. This 2nd edition updates all chapters from the popular 1st edition, adds new chapters and sections, and includes a DVD with interesting digital elevation datasets, an innovative 3D fly-through of a virtual city (Detroit, Michigan), plus a digital User Requirements Menu and example Scopes of Work for specifying user requirements.

Chapters

1. Introduction
2. Vertical Datums
3. Accuracy Standards
4. The National Elevation Dataset
5. Photogrammetry
6. Interferometric Synthetic Aperture Radar (IFSAR)
7. Topographic and Terrestrial Lidar
8. Airborne Lidar Bathymetry
9. Sonar
10. Enabling Technologies
11. DEM User Applications
12. DEM Quality Assessment
13. DEM User Requirements
14. Lidar Processing and Software
15. Sample Elevation Datasets



Manual of Photogrammetry, 5th Edition

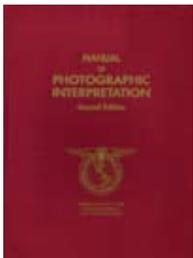
Chris McGlone, with Edward Mikhail and James Bethel, Editor

1200+ pp. Hardcover. 2004
ISBN 1-57083-071-1
Stock #4736
List Price: \$94
ASPRS Members: \$71; Student Members: \$50
Examination Copy: See page 8 for details.

Since the publication of the first edition in the 1940s, the *Manual of Photogrammetry* has served as the comprehensive reference for those working in the field of photogrammetry and for those in other fields who need to use or understand photogrammetric applications. Recent years have seen fundamental changes in photogrammetric theory and practice, due both to technological changes such as the widespread adoption of digital imagery, and also the emergence of separate fields with strong photogrammetric components, such as geographic information systems, computer vision and remote sensing. The Fifth Edition of the *Manual* provides a guide to photogrammetric practice at the start of the 21st century, integrating new sensors, exploitation techniques and products into the ever-evolving practice of photogrammetry.

Chapters

1. A Brief History of Photogrammetry: An overview of the development of the technology.
2. Mathematical Concepts used in Photogrammetry: Coverage of fundamental concepts such as statistics and projective geometry.
3. The Mathematics of Photogrammetry: Mathematically modeling image geometry, platform dynamics, and geodetic coordinate systems.
4. Optics: Optics for photogrammetric sensors.
5. Digital Image Processing: Overview of digital image processing techniques for photogrammetric applications.
6. Basic Computer Vision Techniques: Computer vision techniques used in today's automated systems.
7. Detectors and Sensors: Introduction to current film and solidstate sensor technology.
8. Cameras and Sensing Systems: Overview of state-of-the-art sensors.
9. Photogrammetric Platforms: Terrestrial, airborne, and satellite platform descriptions and considerations.
10. Classical Photogrammetric Equipment: Overview of film-based photogrammetric equipment.
11. Analytical Photogrammetric Operations: Multi-image block adjustment, rational function models.
12. Digital photogrammetric workstations and automation: Digital workstation architecture and processing.
13. Photogrammetric products: Production of digital cartographic products, GIS data, and 3D visualizations.
14. Photogrammetric Applications: Descriptions of some of the broad range of photogrammetric applications, including close-range, forensic, architectural, and extra-terrestrial.
15. Project and Mission Planning: Planning of airborne and satellite missions.



The Manual of Photographic Interpretation, 2nd Edition

Warren Philipson, Editor

700 pp. Hardcover. 1997
ISBN 1-57083-039-8
Stock #4725
List Price: \$99
ASPRS Members: \$70; Student Members: \$40
Examination Copy: See page 8 for details.

This volume updates and refines the 1960 edition of the *Manual of Photographic Interpretation*. The profession's leading experts help bring the visual interpretation of photographic data into focus. Organized into four parts, the Manual explains everything—from the fundamentals of photographic interpretation, to assessing elements of the environment, to applications.

Chapters

Part 1—Background

1. History and Place of Photographic Interpretation
2. Fundamentals of Photographic Interpretation
11. Forestry
12. Photo interpretation for ranges & range management

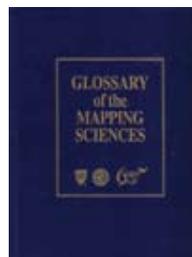
Part 2—Recognizing & Assessing Elements of the Environment

3. Landforms & Geology
4. Soils
5. Vegetation
6. Water, snow, & ice
7. Structures & cultural features
13. Identifying & monitoring wetlands
14. Wildlife application
15. Urban analysis & planning
16. Archaeology & cultural resource management
17. Environmental monitoring
18. Army applications of airphoto analysis

Part 3—Applications

8. Applications of photographic interpretation in geology
9. Land use & land cover inventory
10. Agricultural applications of

Appendices

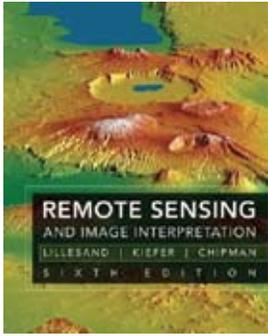


Glossary of the Mapping Sciences

Co-published by ASPRS, ACSM and ASCE
563 pp. Paperback. 1994
ISBN 1-57083-011-8
Stock #5021
List Price: \$50
ASPRS Members: \$35
Student Members: \$25
Examination Copy: See page 8 for details.

Everything you need to know about the mapping sciences from A to Z. The *Glossary* contains more than 11,000 definitions that encompass every aspect of the mapping sciences. Definitions are included in the areas of Photogrammetry, Remote Sensing, Cartography, Mapping, Land Surveying, Construction Surveying, Engineering Surveying, Geodesy, Hydrography, LIS/GIS/LIM, Surveying Law, and Metrology.

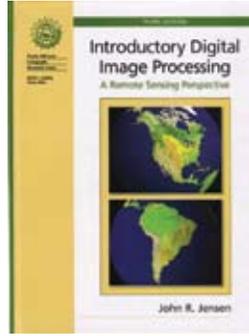
REMOTE SENSING



Remote Sensing and Image Interpretation, 6th Edition
Lillesand, Kiefer and Chipman,
Editors

John Wiley & Sons Publishers
768 pp. Hardcover. 2007
ISBN 978-0-470-05245-7
Stock #4580
List Price: \$124
ASPRS Members: \$102

From recent developments in digital image processing to the next generation of satellite systems, this book provides a comprehensive introduction to the field of remote sensing and image interpretation. This book is discipline neutral, so readers in any field of study can gain a clear understanding of these systems and their virtually unlimited applications.

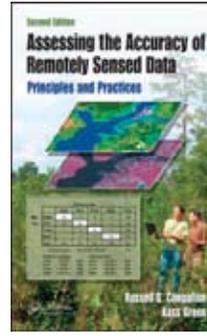


Introductory Digital Image Processing, 3rd Edition
John R. Jensen

Prentice Hall
544 pp. Hardcover, 2004
ISBN 0-13-145361-0
Stock # 4573
List Price: \$100
ASPRS Members: \$92

For junior/graduate-level courses in Remote Sensing in Geography, Geology, Forestry, and Biology.

This revision of *Introductory Digital Image Processing: A Remote Sensing Perspective* continues to focus on digital image processing of aircraft- and satellite-derived, remotely sensed data for Earth resource management applications. Extensively illustrated, it explains how to extract biophysical information from remote sensor data for almost all multidisciplinary land-based environmental projects. Part of the Prentice Hall Series Geographic Information Science.

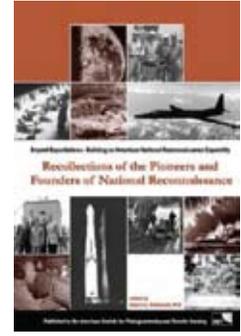


Assessing the Accuracy of Remotely Sensed Data: Principles and Practices, Second Edition

Russell G. Congalton and Kass Green

CRC Press Publishers
208 pp. Hardcover. 2008
ISBN: 9781420055122
Stock #4564
List Price: \$90
ASPRS Members: \$85

The field of accuracy assessment of maps derived from remotely sensed data has continued to grow since the first edition of this groundbreaking book published in 1999. As a result, this much-anticipated new edition was significantly expanded and enhanced to reflect growth in the field. This revision includes four new chapters on such topics as positional accuracy and using accuracy assessment as an intermediate step in image classification. Additionally, the authors devote an entire chapter to the fuzzy accuracy assessment process and include a 16-page color insert. A new case study represents current complications and issues of interest, while a new order of chapters makes the presentation more effective.



Beyond Expectations — Building an American National Reconnaissance Capability: Recollections of the Pioneers and Founders of National Reconnaissance

Robert A. McDonald, Editor

Published in cooperation with the NRO
456 pp. Softcover. 2002
ISBN 1-57083-065-7
Stock #4567
List Price: \$40
ASPRS Members: \$25
Examination Copy: See page 8 for details.

In this book readers will find the recollections of individuals whose collective, professional contributions represent the foundation for the discipline of national reconnaissance. On 18 August 2000 the Director of the National Reconnaissance Office (DNRO), Keith R. Hall, selected 46 pioneers who had made significant and lasting contributions to the discipline over the previous 40 years. The recollections in this book are stories that look beyond historical events associated with the developing days of national reconnaissance. With the Cold War, the founders and pioneers were confronting threats and uncertainties that their generation was finding frightful and initially baffling. The founders, through their scientific competence, gave confidence to national-level decision makers.



Pecora 17: The Future of Land Imaging... Going Operational

CD-ROM. 2008
ISBN 1-57083-088-6
Stock #4581
List Price: \$10

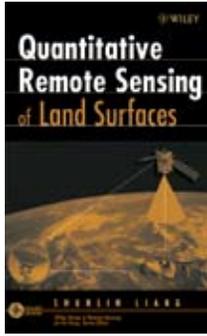
The Future of Land Imaging... Going Operational was the 17th in the series of successful William T. Pecora Symposia on remote sensing. Organized by ASPRS and Lead Sponsors USGS and NASA, the conference was held November 2008 in Denver, Colorado. Topics covered include applications of satellite and other remotely sensed data to study, monitor, and manage the Earth's land surface, as well as technologies to improve satellite data analyses, quality, access and preservation.

DID YOU KNOW

List prices in this catalog are all below the Publisher's List Price (for books not published by ASPRS).

ASPRS Members save even more.

REMOTE SENSING



Quantitative Remote Sensing of Land Surfaces Shunlin S. Liang

John Wiley & Sons Publishers
534 pp. Hardcover. 2003
ISBN 0-471-28166-2
Stock #4569
List Price: \$133
ASPRS Members: \$119

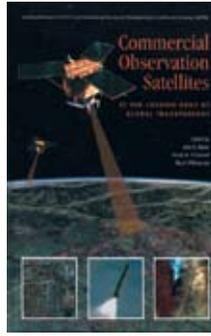
A comprehensive resource of basic principles and practical algorithms. Remote sensing of land surfaces has entered a new era. A series of operating satellites from the NASA Earth Observing System (EOS) program, other international programs, and commercial programs are producing tremendous volumes of data at significantly higher levels of measurement precision. In order to effectively interpret the data and estimate Earth surface variables, scientists require ever more sophisticated and targeted quantitative algorithms. *Quantitative Remote Sensing of Land Surfaces* fills this reference need, connecting theoretical, physically based modeling to specific applications.

Liang divides his much-needed resource into two parts. The first presents the current understanding of optical remote sensing with an emphasis on radiative transfer modeling of the atmosphere, canopy, soil, and snow. The second, greater part of the text, discusses a variety of practical algorithms for estimating land surface variables quantitatively. It includes state-of-the-art quantitative algorithms for:

- Sensor calibration
- Atmospheric and topographic correction
- Estimation of a variety of biophysical and geophysical variables
- Four-dimensional data assimilation

The book cites more than 1,300 references, and the companion CD-ROM includes useful computer program codes and valuable data sets. The author assumes no special mathematical background beyond a good working knowledge of statistics, calculus, and linear algebra on an undergraduate level.

Graduate students as well as practitioners of interdisciplinary research on the Earth's land surface environment will find this text to be a peerless addition to the professional literature.



Commercial Observation Satellites: At the Leading Edge of Global Transparency John C. Baker, Kevin M. O'Connell, and Ray A. Williamson, Editors

Co-published by ASPRS and RAND
644 pp. Hardcover. 2001
ISBN 0-8330-2872-3
Stock # 4562
List Price: \$90
ASPRS Members \$65
644 pp. Softcover. 2001
ISBN 0-8330-2872-3
Stock # 4562S
List Price: \$80
ASPRS Members: \$55

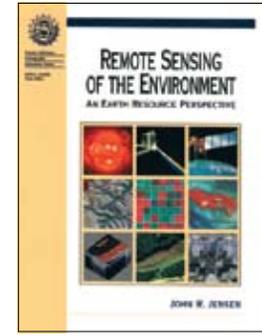
Commercial Observation Satellites brings together an international group of experts to analyze the diverse issues presented by the new, higher resolution commercial and civilian observation satellites.

With more than two dozen chapters and numerous satellite images, the book's authors examine emerging policy issues, provide a survey of the U.S. and many non-U.S. satellite remote sensing programs, and offer case studies on international security applications of satellite imagery. Written to reach nonspecialists, as well as policymakers and commercial practitioners, the book is divided into four parts:

- Policymaking Context
- National Remote Sensing Programs and Policies
- Remote Sensing Applications to International Problems
- Emerging International Policy Issues

The book also contains a Foreword by Marta Macias Brown, wife of former Congressman George E. Brown, Jr.

Thirty-two pages of color images, charts available on the ASPRS website at <http://www.asprs.org/asprs/news/satellites/> will be updated regularly.



Remote Sensing of the Environment: An Earth Resource Perspective, 2nd Edition John Jensen

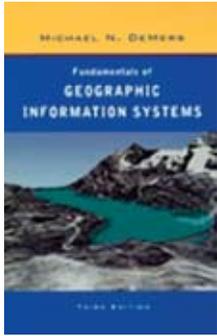
Published by Prentice Hall
544 pp. Hardcover. 2006
ISBN 0-13-188950-8
Stock # 4560
List Price: \$118
ASPRS Members: \$105

Ideal for a university level, one-semester Introductory Remote Sensing course as well as an Introductory Airphoto Interpretation course. This book introduces the fundamental principles of remote sensing from an earth resource perspective. It reviews the nature of electromagnetic radiation and how the reflected or emitted energy in the visible, near-infrared, middle-infrared, thermal infrared, and microwave portions of the spectrum can be collected by a variety of sensor systems and analyzed. Emphasis is placed on manual, visual image analysis of the remote sensor data using introductory photogrammetric techniques.

Features

- Documents the history of photography and other remote sensing detectors, and aerial platforms (balloon, kite, aircraft, satellite).
- Enables readers from many disciplines such as geography, agriculture, forestry, marine science, and geology to adapt the remote sensing principles and technology to their own application.
- Provides case studies in most chapters.
- Highlights practical applications of principles taught in the book.
- Includes hundreds of specially designed illustrations.

GIS



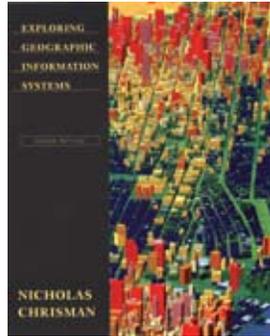
Fundamentals of GIS, 3rd Edition

Michael DeMers

John Wiley & Sons Publishers
480 pp. Hardcover. 2004
ISBN 0-471-20491-9
Stock #4640
List Price: \$81
ASPRS Members: \$75

This textbook is designed to provide some of the basics required not only to operate currently available GIS technology to solve everyday geographical problems, but also to encourage spatial thinking in the broader context. It serves as an introduction to GIS as well as a book for instructors and users to supplement any course lecture material with hands-on practical exercises using some form of GIS. The book reflects the current growth of GIS technology and its intellectual content.

Learning objectives at the beginning of each chapter help to define concepts and outline the goals of that the reader should be accomplishing. Review questions at the end of each chapter isolate key material for effective self study.



Exploring GIS, 2nd Edition

Nicholas Chrisman

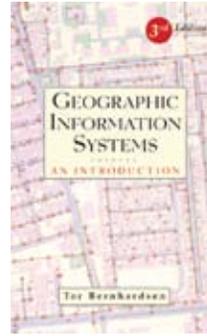
John Wiley & Sons Publishers
320 pages, Softcover
ISBN 0-471-31425-0
Stock #4641
List Price: \$69
ASPRS Members: \$55

Geographic Information Systems (GIS) is the organized activity by which people:

- Measure aspects of geographic phenomena and processes
- Represent these measurements, usually in the form of a computer database, to emphasize spatial themes, entities, and relationships
- Operate upon these representations to produce more measurements, and to discover new relationships by integrating disparate sources
- Transform these representations to conform to other frameworks of entities and relationships.

These activities reflect the larger context, such as institutions and cultures, in which these people carry out their work. In turn, the GIS may influence these structures.

This text provides the comprehensive coverage needed to master this powerful new technology.



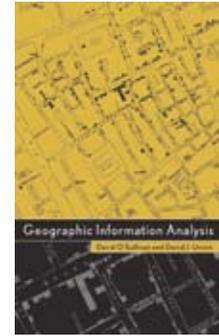
Geographic Information Systems: An Introduction, 3rd Edition

Tor Bernhardtson

John Wiley & Sons Publishers
448 pp. Hardcover. 2002
ISBN 0-471-41968-0
Stock #4648
List Price: \$66
ASPRS Members: \$60

This book provides a practical, theory-driven overview of GIS that is supported with clear coverage of basic techniques. This treatment enables readers to understand the broad aspects of GIS without focusing on a specific software or discipline, such as engineering or geography. New features of this Third Edition include: up-to-date information on standardization efforts aimed at facilitating the exchange of ideas and data; technical content that is up to date with current hardware, software, database design, and analytical techniques; and comprehensive cost/benefit guidelines for choosing and evaluating a GIS, including coverage of organizational and technical issues.

Complete with extensive references and links to online resources, *Geographic Information Systems*, Third Edition, is an exceptional resource for students of GIS, planning, land use, natural resources, civil and environmental engineering, real estate, and wildlife biology.



Geographic Information Analysis

David O'Sullivan and David Unwin

John Wiley & Sons Publishers
448 pp. Hardcover. 2002
ISBN 0-471-21176-1
Stock #4645
List Price: \$66
ASPRS Members: \$60

Geographic Information Analysis presents clear and up-to-date coverage of the foundations of spatial analysis in a GIS environment. Focusing on the universal aspects of spatial data and their analysis, this book covers the scientific assumptions and limitations of methods available in many geographic information systems.

Throughout, the fundamental idea of a map as a realization of a spatial stochastic process is central to the discussion. Key spatial concepts are covered, including point pattern, line objects and networks, area objects, and continuous fields. Analytical techniques for each of these are addressed, as are methods for combining maps, exploring multivariate data, and performing computationally intensive analysis. Appendixes provide primers on basic statistics and linear algebra using matrices.

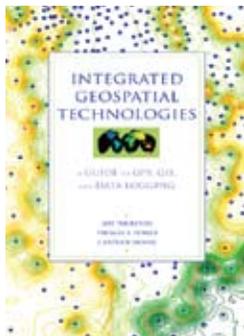
Complete with chapter objectives, summaries, "thought exercises," a wealth of explanatory diagrams, and an annotated bibliography, this is a practical book for students, as well as a valuable resource for researchers and professionals in the industry.

Examination Copies for Instructors

Examination copies of ASPRS published books are available on a 45-day approval basis. To request an examination copy for course adoption consideration, please email or fax your request, including the name of your course, the estimated class size, and the adoption decision date, on school letterhead to the ASPRS Distribution Center at asprspubs@brightkey.net or 301-206-9789. An invoice will accompany your Examination copy. If you decide to adopt the book (a minimum order of 5 copies of the book is required), keep the examination copy and return the original invoice with a copy of your request to the ASPRS Distribution Center. If you do not adopt the book, you may either pay the invoiced amount and keep the book for your personal library or return it, unmarked and in salable condition (books must not have a broken spine or bent covers), to the Distribution Center. To ensure proper credit, please enclose the original invoice. Schools that do not resolve invoices within the 45-day examination period will be required to prepay future orders.

Requests from outside the U.S. require pre-payment of shipping for the Examination copy.

GIS



Integrated Geospatial Technology: A Guide to GPS, GIS and Data Logging

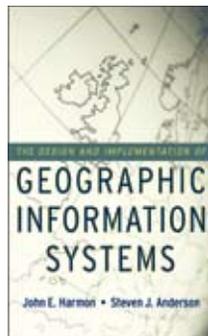
Jeff Thurston, Thomas Poiker,
and J. Patrick Moore

John Wiley & Sons Publishers
280 pp. Hardcover. 2003
ISBN 0-471-24409-0
Stock #4644
List Price: \$76
ASPRS Members: \$68

Packed with basic theory and real-world applications, *Integrated Geospatial Technologies* uses a unique, integrative framework to present a balanced approach to such geotechnologies as GIS, GPS, digital photogrammetry, and visualization. The practical mix of theory and nuts-and-bolts information in this book will jump-start professionals into taking full advantage of the rich and affordable data-collecting opportunities now available since the deactivation of Selective Availability.

This highly visual resource offers informative line drawings, photographs of equipment and hardware, screenshots, and sidebars underscoring important points. Enlightening discussions by an international group of authors focus on the core theory of GPS and GIS, without being overly technical or software/hardware specific. Numerous case studies illustrating how to apply a variety of technologies, protocol, and standard practices to real-world projects are included.

This book is an essential resource for every professional working with GIS today, and students studying these technologies in a variety of fields, including geography, land-use planning, ecology, biology, economics, public administration, natural resources, forestry, surveying, and archaeology.



The Design and Implementation of Geographic Information Systems

John Harman and Steven Anderson

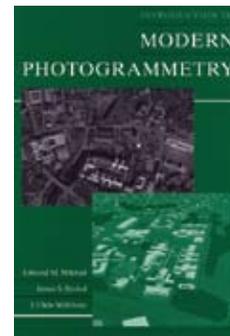
John Wiley & Sons Publishers
272 pp. Hardcover. 2003
ISBN 0-471-20488-9
Stock #4647
List Price: \$76
ASPRS Members: \$68

A unique nuts-and-bolts perspective of enterprise GIS design, a geographic information system that meets the needs of numerous users across multiple units in an organization. This hands-on guide offers in-depth, up-to-date material on issues of spatial data when designing and implementing enterprise GIS, along with insightful, illustrative examples.

From the predesign planning stages dealing with assessment, requirement analysis, organizational issues, and cost analysis, to integrating legacy MIS systems and preparing for future developments in database design, this book addresses all the fundamental aspects of the design and implementation of GIS, regardless of software or hardware. It offers helpful "decision trees" to assist in strategic planning, as well as proven strategies for application development, interface design, and enabling Web-based access. Numerous case studies and examples from the private and public sectors demonstrate how these strategies and approaches play out in the real world.

As GIS becomes increasingly integrated with traditional MIS/IT database systems, GIS practitioners and MIS/IT managers will find this a reliable, go-to resource.

PHOTOGRAMMETRY



Introduction to Modern Photogrammetry

Edward M. Mikhail, James Bethel,
and Chris McGlone

John Wiley & Sons Publishers
496 pp. Softcover. 2001
ISBN 0-471-30924-9
Stock #47355
List Price: \$114
ASPRS Members: \$96

This text is designed to give students a strong grounding in the mathematical basis of photogrammetry while introducing them to related fields, such as remote sensing and digital image processing, which are increasingly important to photogrammetric research and practice.

Suitable for undergraduate photogrammetry courses typically aimed at junior and senior students, and for graduate-level courses at the Master's level.

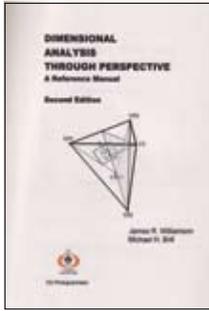
Features

- Strong exposition of mathematical basis of photogrammetry- Student will gain mathematical background to understand current photogrammetric applications.
- Introduction/overview to related fields in context of photogrammetry- Material on digital image processing, computer vision, remote sensing and GIS is presented in the context of photogrammetry, with only the relevant topics stressed.
- Photogrammetric programs included with book- By providing example programs, technology issues within the market are addressed and gives the student has the chance to run standard operations easily.
- Photogrammetric website- Links to general photogrammetric resources will be provided, including photogrammetric societies, academic institutions, photogrammetric equipment manufacturers, mapping and GIS companies and to image and map data sources.
- CD-ROM- Example programs on CD will enable students to perform the operations described in the text.
- Online; Website provides expanded contents of text.
- Reference site to general users.
- Each chapter will have its own list of links relevant to its topic.

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SPECIAL PUBLICATIONS



Dimensional Analysis Through Perspective: A Reference Manual, 2nd Edition

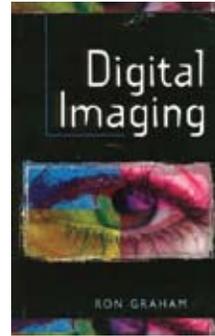
James R. Williamson and Michael H. Brill

256 pp. Softcover. 2004
 ISBN 0-9754833-0-7
 Stock No. 4716
 List Price: \$40
 ASPRS Member Price: \$34

This "how-to" book transforms close-range perspective photography into orthographic views. The authors present specific aspects of single-photograph perspective to show a fresh review of techniques commonly used in photogrammetric analysis of one-, two-, and three-point perspective photography.

Features

- Conventions and classifications
- Vanishing Points, Camera Station and Principal Point
- Step-by-step analysis of One-, Two-, and Three-point Perspective
- Analytical Chapters on Analytical Perspective, Axis Conventions and Rotations, Phase One Parametric Procedures, Location of the Principal Point, and more
- Camera-station computations
- Appendix includes Camera Collection Mini-log, graphical worked examples, and analytical worked examples.



Digital Imaging

Ron Graham

Whittles Publishing
 212 pp. 1997
 ISBN 1-870325-12-5
 Stock #1066
 List Price: \$45

Price Reduced

This book provides a sound reference from which the reader will be able to understand current digital imaging technology, terms, and relationships, and follow future developments. Science and technology are introduced in an interesting way, and a number of applications illustrate the tremendous potential of this rapidly growing technology. The book will prove valuable to all companies, lecturers and students involved in imaging, publishing, mapping and remote sensing, information technology, photography, media studies, electronics, physics and any subject that uses images as a data source.

PE&RS

The international journal of ASPRS, *Photogrammetric Engineering & Remote Sensing (PE&RS)* has been devoted to promoting knowledge and understanding of the geospatial sciences since 1934.

Features

- Annual Index in the December issue
- Digital photogrammetry
- Forestry
- Geographic information systems (GIS)
- Geography
- Geology
- Global positioning systems (GPS)
- Hydrology
- Photogrammetry
- Plant sciences
- Primary data acquisition
- Professional practice
- Remote sensing
- Water Resources

Monthly issues regularly feature Update columns, Headquarters and Industry News, Highlight Articles, Software and Book Reviews, Classified Advertising, and Calendar Notices.

Paper submissions are welcomed. Please refer to "Instructions to Authors" printed in each issue.

Subscription Information

Individual membership in ASPRS includes an annual subscription to *PE&RS*. Government agencies, private companies, and libraries are invited to subscribe to *PE&RS* at the rates below:

Volume 77, 2011

U.S.—1st Class \$410.00

Canada—Airmail \$426.00

*Subscription rates for Canada include postage and 5% of the total amount of the subscription rate + postage for Canada's Goods and Services Tax (GST #135123065).

Foreign—ISAL \$420.00

Special Issues

February 2010 – Geographic Object-Based Image Analysis (GEOBIA)

July 2010 – GIS/ASPRS Yearbook Issue

September 2010 – High-Resolution Earth Imaging for Geospatial Information

PE&RS Back Issues

2010 Volume 76

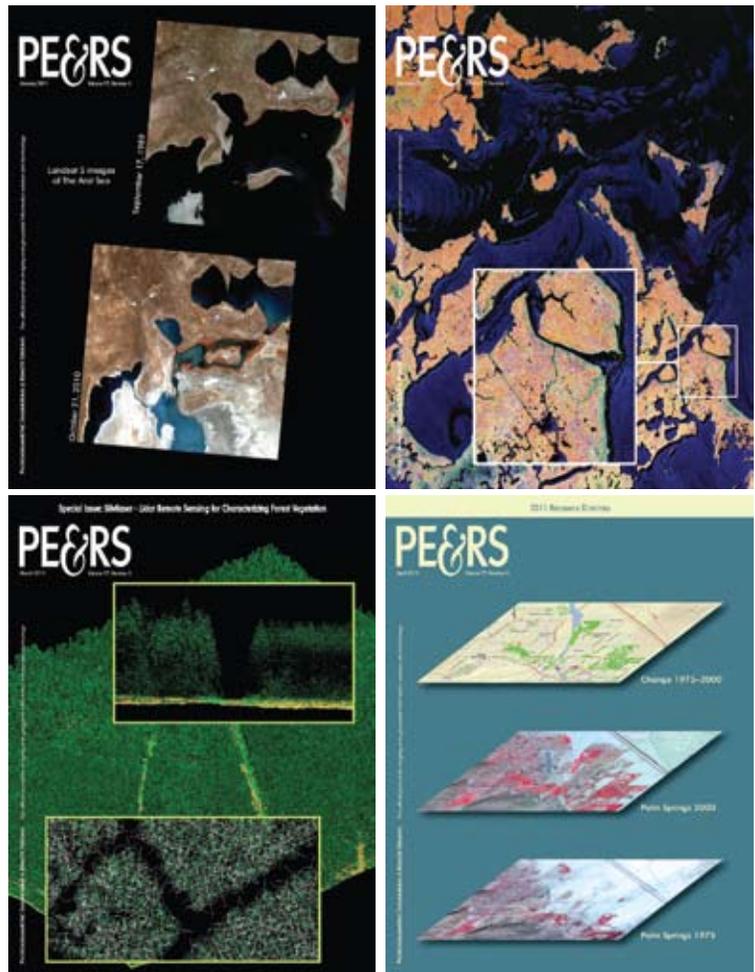
Regular Issues: \$27 per issue

2005–2009 Volumes 71–75

Regular Issues: \$10 per issue

Special Issues: \$30 per issue

Special Issues: \$20 per issue



PROCEEDINGS



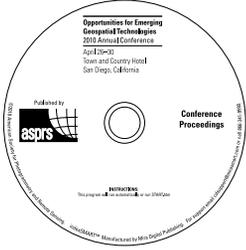
**2009 Annual
Technical Papers**
CD-ROM. 2009
ISBN 1-57083-090-8
Stock # 4952
List Price: \$35
ASPRS Members: \$20

The CD-ROM proceedings from the 2009 ASPRS Annual Conference held in Baltimore, Maryland in March 2009. This conference focused on Reflection on the Past/Vision for the Future and the 75th Anniversary of ASPRS.



**2009 Specialty
Conference
Technical Papers**
CD-ROM. 2009
ISBN 1-57083-091-6
Stock # 4953
List Price: \$35
ASPRS Members: \$20

The CD-ROM proceedings from the 2009 ASPRS Annual Conference held in San Antonio, Texas in November 2009. This conference focused on digital mapping.



**2010 Annual
Technical Papers**
CD-ROM. 2010
ISBN 1-57083-092-4
Stock # 4954
List Price: \$35
ASPRS Members: \$20

This CD-ROM proceedings is from the 2010 ASPRS Annual Conference held in San Diego, California in April 2010. This conference focused on Opportunities for Emerging Geospatial Technologies. Papers represent a wide range of topics.



**2010 Specialty
Technical Papers**
CD-ROM. 2010
ISBN 1-57083-094-0
Stock # 4955
List Price: \$35
ASPRS Members: \$20

The CD-ROM proceedings from the 2010 ASPRS/CaGIS 2010 Specialty Conference held in Orlando, Florida in November 2010. Proceedings include ASPRS, ISPRS and AutoCarto papers.



**2011 Annual
Technical Papers**
CD-ROM. 2011
ISBN 0-57083-095-9
Stock # 4956
List Price: \$35
ASPRS Members: \$20

The CD-ROM proceedings from the 2011 ASPRS Annual Conference held in Milwaukee, Wisconsin in May 2011.

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2007 Annual Technical Papers

CD-ROM. 2007
ISBN 1-57083-085-1
Stock # 4950
List Price: \$10

The CD-ROM proceedings from the 2007 ASPRS Annual Conference held in Tampa, Florida in May, 2007. This conference focused on Identifying Geospatial Solutions.

2008 Annual Technical Papers

CD-ROM. 2008
ISBN 1-57083-087-8
Stock # 4951
List Price: \$10

The CD-ROM proceedings from the 2008 ASPRS Annual Conference held in Portland, Oregon in April/May, 2007. This conference focused on New Frontiers in Geospatial Collaboration.

Accuracy Assessment of Remote Sensing-Derived Change Detection

Siamak Khorram, Editor
64 pp. Softcover. 1999
ISBN 1-57083-058-4
Stock # 4554
List Price: \$5

This monograph describes the issues affecting accuracy assessment that are particular to change detection, then develops the factors of a remote sensing processing system that affect accuracy assessment. Change detection is typically present.

Digital Elevation Model Technologies and Applications: The DEM Users Manual

David Maune, Editor
530 pp. Hardcover. 2001.
ISBN 1-57083-064-9
Stock # 1067
List Price: \$25

This first edition of the DEM Users Manual is designed to help potential users of digital elevation data understand and articulate their requirements in a way that their expectations are satisfied or exceeded. With over a dozen chapters, 500+ pages and numerous color images, the book's authors agreed that this manual should be written for the benefit of DEM users, not the producers of DEM, with a broad range of applications being discussed.

Digital Photogrammetry, Vol. 1

Toni Schenk
Published by TerraScience
428 pp. Softcover and Hardcover. 1999
ISBN 0-9677653-0-7
Stock #4733H (Hardcover)
List Price: \$25

Digital photogrammetry is a relatively young and fast-growing field. This book, developed from lecture notes for a graduate course taught by the author, is intended to be useful as a textbook or reference book. The author has used a conceptual approach with emphasis on principles, while keeping the presentation as elementary as possible by sacrificing mathematical rigor, when necessary, for an intuitive description. A problem section is included for every chapter except the first part.

Earth Observation Systems: Legal Considerations for the 90s

Co-published with the American Bar Association
264 pp. Softcover. 1990
ISBN 0-944426-30-1
Stock #4515
List Price: \$5

Features

- Remote sensing for environmental enforcement
- Legal implications of aerial searches
- Data licensing and copyright issues
- Government and corporate use of remote sensing

The First North American Symposium on Small Format Aerial Photography

228 pp. Softcover. 1997
ISBN 1-57083-052-5
Stock #4730
List Price: \$5

Proceedings of the symposium held October 1997 in Cloquet, Minnesota, sponsored by ASPRS. Papers include an exchange of ideas on development, techniques and application of small format aerial photography and new digital camera systems for agriculture and natural resources. Small format (35mm and 70mm) camera systems have been in regular use for more than three decades. Topic areas include airborne platforms, GPS navigation, analog and digital printing, GIS interfaces, agriculture and law enforcement applications.

International Symposium on Spatial Accuracy of Natural Resource Data Bases

280 pp. Softcover. 1994.
ISBN 1-57083-008-8
Stock #4536
List Price: \$5

This proceedings brings together more than 30 papers written on the latest information on spatial accuracy of natural resource data bases. Topics include—Importance of accuracy; Accuracy of basic data; Example applications; Remote sensing; Terrain DEMs; and, Dealing with accuracy.

Proceedings of the 20th Biennial Workshop on Aerial Photography, Videography, and High Resolution Digital Imagery for Resource Assessment

Chenghai Yang and James H. Everitt,
Co-editors
CD-ROM. 2006
ISBN 1-57083-079-7
Stock # 4947
List Price: \$35
ASPRS Members: \$20

The 20th Biennial Workshop on Aerial Photography, Videography, and High Resolution Digital Imagery for Resource Assessment was held in Weslaco, Texas, October 4-6, 2005. The workshop was sponsored by ASPRS and hosted by the USDA-ARS Kika de la Garza Subtropical Agricultural Research Center at Weslaco, Texas. The presentations delivered at this conference represent many aspects of the advances in the field of remote sensing, especially in high-resolution airborne and satellite imaging technology, and cover a wide range of application areas for the assessment and management of agricultural lands, crops, forestry, rangelands, wetlands, coastal zones, water quality, fishery, pests, wildlife habitats, and other natural resources. Of the 76 presentations, 69 full papers and five abstracts (74 entries) are included on this CD.

Space Imagery and News Gathering for the 1990s: So What?

Robert McDonald, Editor
121 pp. Softcover. 1991
ISBN 1-57083-002-9
Stock #4521
List Price: \$5

Features

- Legal and national security implications of using space imagery
- Congress and its role
- Human factor constraints on using space imagery
- The broadcasting and journalism perspective
- The technological availability of space imagery

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Remote Sensing & GIS: An Integration of Technologies for Resource Management

Ann Maclean
13 color plates.
248 pp. Softcover. 1994
ISBN 1-57083-004-5
Stock #5022
List Price: \$5

This compendium illustrates how remote sensing and GIS can be used to analyze complex spatial interrelationships affecting resource management problems, and how integrating them can facilitate timely, efficient, and cost effective decision making.

Features

- Overview of integration
- Bridges and barriers
- Forestry and rangeland management
- Agriculture and soils
- Water resources
- Wildlife
- Historical land use and land cover change
- Regional planning

Historical Development of Photogrammetric Methods and Instruments

Blachut and Burkhardt
157 pp. Softcover. 1989
ISBN 0-944426-11-5
Stock #6710
List Price: \$5

An invaluable reference text and chronological record of the early days of photogrammetry, before the application of airplanes, to the development of analytical methods and instruments.

Air Spy

Constance Babington Smith
266 pp. Softcover. 1985
ISBN 0-937294-73-X
Stock #106.1
List Price: \$12

The exciting behind-the-scenes story of the role of photo-intelligence in winning WWII. The eye of the aerial camera was crucial to military operations, as a new strategic and tactical photographic reconnaissance began at Allied bases all over the world. Discloses details involved in taking aerial photographs without being seen or heard below. Contains sections of photos used to locate launch sites for V-1 Buzz Bomb, V-2 Rockets, German U-boats, and more.

Our Secret Little War

Abrams
87 pp. Softcover. 1991
ISBN 0-944426-47-6
Stock #1041
List Price: \$15

This is the story of the Allied men and women who, using aerial photography, built scale models of many battlefields and strategic targets during WWII. The models were used to plan bombing raids and attacks on cities and fortifications. One of the largest and most detailed models was used in planning the Normandy Invasion. This book is illustrated with photographs of the models and their makers.

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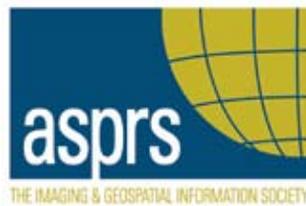
Attendees consistently rate ASPRS Workshops as 4s and 5s (with 5 being Strongly Agree) for the usefulness of the content, quality and effectiveness of the instructor(s), and whether or not the workshop would be recommended to others. Continuing Education Units (CEUs) are available for ASPRS Webinar Workshops. And ASPRS Workshops are affordable.

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