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The selected Landsat imagery was used for delineation of the swamp's likely maximum flood extent using Remote Sensing and GIS software. The most likely maximum flood extent was found to be 11,891 km² at peak flooding.

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Dr. Thomas Lillesand is a professor of engineering at the University of Wisconsin-Madison. He has received the Alan Gordon Memorial Award from American Society of Photogrammetry for significant achievements in remote sensing and photographic interpretation as well as the Earle J. Fennell Award from the American Congress on Surveying and Mapping.

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T. M. Lillesand & R. W. Kiefer 1979. Remote Sensing and Image Interpretation. xii + 612 pp., numerous illustrations. New York, Chichester: John Wiley. Price £12.50.

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Lillesand, Thomas M; Kiefer, Ralph W. The image to the right shows a volcanic landscape in central Africa, including parts of Rwanda, Uganda, and the Democratic Republic of the Congo (formerly Zaire). This image was obtained from the SIR-C multi-wavelength radar remote sensing system, operated on the space shuttle Endeavor in 1994. SIR-C monitors the earth's surface using wave ...

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Conceptually, however, all designs of successful remote sensing efforts involve, at a minimum, (1) clear definition of the problem at hand, (2) evaluation of the potential for addressing the problem with remote sensing techniques, (3) identification of the remote sensing data acquisition procedures appropriate to the task, (4) determination of the data interpretation procedures to be employed ...

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geospatial information and analysis in their work. Because of the wide range of academic and professional settings in which this book might be used, we have made the discussion “discipline neutral.” In short, anyone involved in geospatial data acquisition and analysis should find this book to be a valuable text and reference.

Market_Desc: Scientists. Special Features: · Provides expanded coverage of such topics as digital cameras, disaster assessment, and atmospheric and topographic radiometric correction· Stresses the dominant role of digital data collection and analysis (vs. analog)· Examines Earth resource satellites operating in the optical spectrum· Discusses multispectral, thermal, and hyperspectral sensing· Includes updated images, line drawings and color plates
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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. Providing an exciting overview of the field, this book covers the science of remote sensing from physical basis to sensors and applications. The new Sixth Edition not only offers the latest information, but also has been revised to make the material more accessible.

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gain a clear understanding of these systems and their virtually unlimited applications. * The authors underscore close interactions among the related areas of remote sensing, GIS, GPS, digital image processing, and environmental modeling. * Appendices include material on sources of remote sensing data and information, remote sensing periodicals, online glossaries, and online tutorials.

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. * The authors underscore close interactions among the related areas of remote sensing, GIS, GPS, digital image

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processing, and environmental modeling. * Appendices include material on sources of remote sensing data and information, remote sensing periodicals, online glossaries, and online tutorials.

Intended for introductory courses in remote sensing offered by departments of geography, engineering, forestry or geology, this text surveys photographic techniques and applies them to various fields. It also explores the interpretation of data collected by other types of sensors.

This book presents the fundamental concepts covering various stages of remote sensing from data collection to end utilization, so that it can be appreciated irrespective of the discipline in which the reader has graduated. The physical principles on which remote

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sensing are based has been explained without getting into complicated mathematical equations.

This book brings together a collection of invited interdisciplinary perspectives on the recent topic of Object-based Image Analysis (OBIA). Its content is based on select papers from the 1 OBIA International Conference held in Salzburg in July 2006, and is enriched by several invited chapters. All submissions have passed through a blind peer-review process resulting in what we believe is a timely volume of the highest scientific, theoretical and technical standards. The concept of OBIA first gained widespread interest within the GIScience (Geographic Information Science) community

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circa 2000, with the advent of the first commercial software for what was then termed 'object-oriented image analysis'. However, it is widely agreed that OBIA builds on older segmentation, edge-detection and classification concepts that have been used in remote sensing image analysis for several decades. Nevertheless, its emergence has provided a new critical bridge to spatial concepts applied in multiscale landscape analysis, Geographic Information Systems (GIS) and the synergy between image-objects and their radiometric characteristics and analyses in Earth Observation data (EO).

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

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understand remote sensing and apply it in real-world situations. Thoroughly updated to reflect the tremendous technological leaps made since the publication of the first edition, this book covers the gamut of knowledge and skills needed to work in this dynamic field, including:

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

The authors have carefully structured and organized the book to introduce readers to the basics, and then move on to more advanced applications. Following an introduction, Chapter 2 sets forth the basic properties of electromagnetic waves and their interactions with matter. Chapters 3 through 7 cover the use of remote sensing in solid surface studies, including oceans. Each chapter covers one major part of the electromagnetic spectrum (e.g., visible/near infrared, thermal

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infrared, passive microwave, and activemicrowave). Chapters 8 through 12 then cover remote sensing in the study ofatmospheres and ionospheres. Each chapter first presents the basicinteraction mechanism, followed by techniques to acquire, measure,and study the information, or waves, emanating from the mediumunder investigation. In most cases, a specific advanced sensor isused for illustration. The book is generously illustrated with fifty percent new figures.Numerous illustrations are reproduced in a separate section ofcolor plates. Examples of data acquired from spaceborne sensors areincluded throughout. Finally, a set of exercises, along with asolutions manual, is provided. This book is based on an upper-level undergraduate and first-yeargraduate course taught by the authors at the California Instituteof Technology. Because of the multidisciplinary nature of the fieldand 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 engineer or scientist interested in working in this exciting field.

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line communications, bio-inspired signal processing, seismic data processing, arithmetic transforms for spectrum computation, particle filtering in cooperative networks, three-dimensional television, and more. This book not only shows how signal processing theory is applied in current and emerging technologies, but also demonstrates how to tackle key problems such as how to enhance speech in the time domain, improve audio quality, and meet the desired electrical consumption target for controlling carbon emissions. Signals and Images: Advances and Results in Speech, Estimation, Compression, Recognition, Filtering, and Processing serves as a guide to the next generation of signal processing solutions for speech and video coding, hearing aid devices, big data processing, smartphones, smart digital communications, acoustic sensors, and beyond.

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